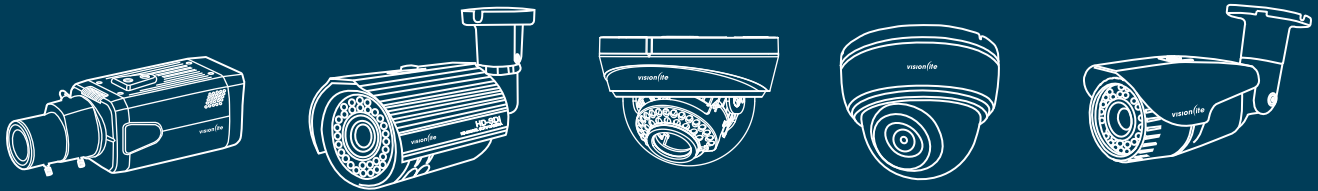


vision(ite)



2013

VISIONITE SECURITY SYSTEM



HD-SDI Camera / Mega IP Camera / Bullet Camera / Dome Camera
Conventional Camera / Miniature & Module Camera / DVR & Special Camera

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Your Best Business Partner for Global Security

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vision *ite*



Introduction

Visionite Co., Ltd. was established in Apr. 2000 by expert engineers who have over 15years experience in security surveillance field and manufacture in Korea. We're equipped with full line-up of analogue cameras and recently introduced HD-SDI & HD megapixel IP cameras which open up a new era of competitive high end products.

Based on our technology & field experience, we will make every effort to develop excellent quality products and create our enthusiasm on quality control in order to satisfy all our customers.

PRODUCT LINE-UP

HD-SDI Camera

P.10



VCN-V610DM-IR

- 2.2M(HD-SDI)
- 1080P
- 44pcs IRED,
- 3D-DNR, Sense up, WDR
- f=2.8~12mm(ICR)
- Weatherproof (IP65)

VCN2-V610DM-IR

- 2.2M(HD-SDI)
- 1080P
- 36pcs IRED
- 3D-DNR, Sense up, WDR
- f=2.8~12mm(ICR)
- Waterproof (IP67)

P.11



VCL2-V610DM-IR

- 2.2M(HD-SDI)
- 1080P
- 42pcs IRED
- 3D-DNR, Sense up, WDR
- f=2.8~12mm(ICR)
- Waterproof (IP67)

VCL3-F610DM-IR

- 2.2M(HD-SDI)
- 1080P
- 48pcs IRED
- 3D-DNR, Sense up, WDR
- f=3.7mm with TDN mechanism
- Waterproof (IP67)

P.12



VCL4-F910DM-IR

- 2.2M(HD-SDI)
- 1080P
- 25pcs IRED
- 3D-DNR, Sense up, WDR
- f=3.7mm with TDN mechanism
- Waterproof (IP67)

VCS2-E510DM

- 2.2M(HD-SDI)
- 1080P
- 3D DNR, Sense up, WDR
- C/CS with TDN mechanism

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VCV6-V610DM-IR

- 2.2M(HD-SDI)
- 1080P
- 30pcs IRED,
- 3D-DNR, Sense up, WDR
- f=2.8~12mm(ICR)
- Vandal-waterproof (IP67)

VCD6-V610DM-IR

- 2.2M(HD-SDI)
- 1080P
- 30pcs IRED
- 3D-DNR, Sense up, WDR
- f=2.8~12mm(ICR)

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VCD2-F912DM

- 2.2M(HD-SDI)
- 1080P
- 3D-DNR, Sense up, WDR
- f=3.7mm

VCQ3-512DM

- 2.2M(HD-SDI)
- 1080P
- 3D-DNR, Sense up, WDR
- f=3.7mm Pinhole Lens

Mega IP Camera

P.17



VCN-V630DM-IR

- 3.1M(HD-IP)
- Ultra resolution Image (2048 X 1536)
- 44pcs IRED,
- 2D-DNR, Sense up, D-WDR
- f=2.8~12mm(ICR)
- Weatherproof (IP65)

VCN-V640DM-IR

- 1.3M(HD-IP)
- Super resolution Image (1280 X 1024)
- 44pcs IRED
- 2D-DNR, Sense up, D-WDR
- f=2.8~12mm(ICR)
- Weatherproof (IP65)

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VCN2-V630DM-IR

- 3.1M(HD-IP)
- Ultra resolution Image (2048 X 1536)
- 36pcs IRED
- 2D-DNR, Sense up, D-WDR
- f=2.8~12mm(ICR)
- Waterproof (IP67)

VCN2-V640DM-IR

- 1.3M(HD-IP)
- Super resolution Image (1280 X 1024)
- 36pcs IRED
- 2D-DNR, Sense up, D-WDR
- f=2.8~12mm(ICR)
- Waterproof (IP67)

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VCV6-V630DM-IR

- 3.1M(HD-IP)
- Ultra resolution Image (2048 X 1536)
- 30pcs IRED,
- 2D-DNR, Sense up, D-WDR
- f=2.8~12mm(ICR)
- Vandal-waterproof(IP67)

VCV6-V640DM-IR

- 1.3M(HD-IP)
- Super resolution Image (1280 X 1024)
- 30pcs IRED
- 2D-DNR, Sense up, D-WDR
- f=2.8~12mm(ICR)
- Vandal-waterproof(IP67)

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VCD6-V630DM-IR

- 3.1M(HD-IP)
- Ultra resolution Image (2048 X 1536)
- 30pcs IRED
- 2D-DNR, Sense up, D-WDR
- f=2.8~12mm(ICR)

VCD6-V640DM-IR

- 1.3M(HD-IP)
- Super resolution Image (1280 X 1024)
- 30pcs IRED
- 2D-DNR, Sense up, D-WDR
- f=2.8~12mm(ICR)

PRODUCT LINE-UP

Bullet Camera



P.27

VCNP-V510H-IR

- 600 TVL(Winner 5)
- 70pcs IRED
- 3D DNR, x512 Sense up, D-WDR
- f=3.5~16mm(ICR)
- Water-Proof(IP68)

VCNP-V210H-IR

- 600 TVL(H-Bird Nextchip)
- 70pcs IRED
- 2D DNR, D-WDR, Smart IR
- f=3.5~16mm(ICR)
- Water-Proof(IP68)

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VCN-V750W-IR

- 700 TVL(Effio-P Sony)
- 44pcs IRED
- WDR, 3D-DNR, x512 Sense up
- f=3.5~16mm(ICR)
- Weather-Proof(IP65)

VCN-V740H-IR

- 700 TVL(Refia-D Nextchip)
- 44pcs IRED
- 3D-DNR, x256 Sense up, D-WDR
- f=3.5~16mm(ICR)
- Weather-Proof(IP65)



P.29

VCN-V720H-IR

- 700 TVL(Effio-E Sony)
- 44pcs IRED
- 2D-DNR, ATR, Smart IR
- f=3.5~16mm(ICR)
- Weather-Proof(IP65)

VCN-V710H-IR

- 600 TVL(H-Bird Nextchip)
- 44pcs IRED
- 2D-DNR, D-WDR, Smart IR
- f=3.5~16mm(ICR)
- Weather-Proof(IP65)

VCN-V730W-IR

- 600 TVL(EOS802-W76 H-Tech)
- 44pcs IRED
- 2D-DNR, WDR, Smart IR
- f=3.5~16mm(ICR)
- Weather-Proof(IP65)

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VCN2-V750W-IR

- 700 TVL(Effio-P Sony)
- 36pcs IRED
- WDR, 3D DNR, x512 Sense up
- f=2.8~12mm(ICR)
- Water-Proof(IP67)

VCN2-V740H-IR

- 700 TVL(Refia-D Nextchip)
- 36pcs IRED
- 3D-DNR, x256 Sense up, D-WDR
- f=2.8~12mm(ICR)
- Water-Proof(IP67)



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VCN2-V720H-IR

- 700 TVL(Effio-E Sony)
- 36pcs IRED
- 2D-DNR, ATR, Smart IR
- f=2.8~12mm(ICR)
- Water-Proof(IP67)

VCN2-V710H-IR

- 600 TVL(H-Bird Nextchip)
- 36pcs IRED
- 2D-DNR, D-WDR, Smart IR
- f=2.8~12mm(ICR)
- Water-Proof(IP67)

VCN2-V730W-IR

- 600 TVL(EOS802-W76 H-Tech)
- 36pcs IRED
- 2D-DNR, WDR, Smart IR
- f=2.8~12mm(ICR)
- Water-Proof(IP67)



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VCL2-F720H-IR

- 700 TVL(Effio-E Sony)
- 60pcs IRED
- 2D-DNR, ATR, Smart IR
- f=3.6mm with TDN mechanism
- Water-Proof(IP67)

VCL2-F710H-IR

- 600 TVL(H-Bird Nextchip)
- 60pcs IRED
- 2D-DNR, D-WDR, Smart IR
- f=3.6mm with TDN mechanism
- Water-Proof(IP67)

VCL2-F730W-IR

- 600 TVL(EOS802-W76 H-Tech)
- 60pcs IRED
- 2D-DNR, WDR, Smart IR
- f=3.6mm with TDN mechanism
- Water-Proof(IP67)



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VCL3-F720H-IR

- 700 TVL(Effio-E Sony)
- 48pcs IRED
- 2D-DNR, ATR, Smart IR
- f=3.6mm with TDN mechanism
- Water-Proof(IP67)

VCL3-F710H-IR

- 600 TVL(H-Bird Nextchip)
- 48pcs IRED
- 2D-DNR, D-WDR, Smart IR
- f=3.6mm with TDN mechanism
- Water-Proof(IP67)

VCL3-F730W-IR

- 600 TVL(EOS802-W76 H-Tech)
- 48pcs IRED
- 2D-DNR, WDR, Smart IR
- f=3.6mm with TDN mechanism
- Water-Proof(IP67)



P.34

VCL4-F824H-IR

- 700 TVL(Effio-E Sony)
- 25pcs IRED
- 2D-DNR, ATR, Smart IR
- f=3.6mm
- Water-Proof(IP67)

VCL4-F814H-IR

- 600 TVL(H-Bird Nextchip)
- 25pcs IRED
- 2D-DNR, D-WDR, Smart IR
- f=3.6mm
- Water-Proof(IP67)

VCL4-F834W-IR

- 600 TVL(EOS802-W76 H-Tech)
- 25pcs IRED
- 2D-DNR, WDR, Smart IR
- f=3.6mm
- Water-Proof(IP67)

Dome Camera

P.36

VCVP-V750W-IR

- 700 TVL(Effio-P Sony)
- 40pcs IRED
- WDR, 3D-DNR, x512 Sense up
- f=2.8~12mm(ICR)
- Vandal & Water-Proof(IP68)

VCVP-V740H-IR

- 700 TVL(Refia-D Nextchip)
- 40pcs IRED
- 3D-DNR, x256 Sense up, D-WDR
- f=2.8~12mm(ICR)
- Vandal & Water-Proof(IP68)



P.37

VCVP-V720H-IR

- 700 TVL(Effio-E Sony)
- 40pcs IRED
- 2D-DNR, ATR, Smart IR
- f=2.8~12mm(ICR)
- Vandal & Water-Proof(IP68)

VCVP-V710H-IR

- 600 TVL(H-Bird Nextchip)
- 40pcs IRED
- 2D-DNR, D-WDR, Smart IR
- f=2.8~12mm(ICR)
- Vandal & Water-Proof(IP68)

VCVP-V730W-IR

- 600 TVL(EOS802-W76 H-Tech)
- 40pcs IRED
- 2D-DNR, WDR, Smart IR
- f=2.8~12mm(ICR)
- Vandal & Water-Proof(IP68)

P.38

VCV6-V750W-IR

- 700 TVL(Effio-P Sony)
- 30pcs IRED
- WDR, 3D-DNR, x512 Sense up
- f=2.8~12mm(ICR)
- Vandal & Water-Proof(IP67)

VCV6-V740H-IR

- 700 TVL(Refia-D Nextchip)
- 30pcs IRED
- 3D-DNR, x256 Sense up, D-WDR
- f=2.8~12mm(ICR)
- Vandal & Water-Proof(IP67)



P.39

VCV6-V720H-IR

- 700 TVL(Effio-E Sony)
- 30pcs IRED
- 2D-DNR, ATR, Smart IR
- f=2.8~12mm(ICR)
- Vandal & Water-Proof(IP67)

VCV6-V710H-IR

- 600 TVL(H-Bird Nextchip)
- 30pcs IRED
- 2D-DNR, D-WDR, Smart IR
- f=2.8~12mm(ICR)
- Vandal & Water-Proof(IP67)

VCV6-V730W-IR

- 600 TVL(EOS802-W76 H-Tech)
- 30pcs IRED
- 2D-DNR, WDR, Smart IR
- f=2.8~12mm(ICR)
- Vandal & Water-Proof(IP67)

PRODUCT LINE-UP

Dome Camera

P.40

VCD6-V750W-IR

- 700 TVL(Effio-P Sony)
- 30pcs IRED
- WDR, 3D-DNR, x512 Sense up
- f=2.8~12mm(ICR)



VCD6-V740H-IR

- 700 TVL(Refia-D Nextchip)
- 30pcs IRED
- 3D-DNR, x256 Sense up, D-WDR
- f=2.8~12mm(ICR)

P.41

VCD6-V720H-IR

- 700 TVL(Effio-E Sony)
- 30pcs IRED
- 2D-DNR, ATR, Smart IR
- f=2.8~12mm(ICR)

VCD6-V710H-IR

- 600 TVL(H-Bird Nextchip)
- 30pcs IRED
- 2D-DNR, D-WDR, Smart IR
- f=2.8~12mm(ICR)

VCD6-V730W-IR

- 600 TVL(EOS802-W76 H-Tech)
- 30pcs IRED
- 2D-DNR, WDR, Smart IR
- f=2.8~12mm(ICR)

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P.42



VCD2-F822H

- 700 TVL(Effio-E Sony)
- 2D-DNR, ATR
- Fixed lens
- Small indoor Dome camera

VCD2-F812H

- 600 TVL(H-Bird Nextchip)
- 2D-DNR, D-WDR
- Fixed lens
- Small indoor Dome camera

VCD2-F832W

- 600 TVL(EOS802-W76 H-Tech)
- 2D-DNR, D-WDR
- Fixed lens
- Small indoor Dome camera

VCD5-F824H-IR

- 700 TVL(Effio-E Sony)
- 24pcs IRED
- 2D-DNR, ATR, Smart IR
- Fixed lens
- Small indoor Dome camera

VCD5-F814H-IR

- 600 TVL(H-Bird Nextchip)
- 24pcs IRED
- 2D-DNR, D-WDR, Smart IR
- Fixed lens
- Small indoor Dome camera

VCD5-F834W-IR

- 600 TVL(EOS802-W76 H-Tech)
- 24pcs IRED
- 2D-DNR, WDR, Smart IR
- Fixed lens
- Small indoor Dome camera



P.43



VCO-PTZ12H

- 550 TVL(Winner5)
- 12X Zoom
- Indoor & Outdoor

P.44



VCO-PTZ27/33/37H

- 550 TVL(Winner5)
- 27/33/37X Zoom
- Outdoor

Box Camera

P.46

VCS2-E750W

- 700 TVL(Effio-P Sony)
- WDR, 3D-DNR, x512 Sense up
- TDN mechanism
- C/CS



VCS2-E740H

- 700 TVL(Refia-D Nextchip)
- 3D-DNR, x256 Sense up, D-WDR
- TDN mechanism
- C/CS

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VCS2-E720H

- 700 TVL(Effio-E Sony)
- 2D-DNR, ATR
- TDN mechanism
- C/CS

VCS2-E710H

- 600 TVL(H-Bird Nextchip)
- 2D-DNR, D-WDR
- TDN mechanism
- C/CS

VCS2-E730W

- 600 TVL(EOS802-W76 H-Tech)
- 2D-DNR, WDR
- TDN mechanism
- C/CS



P.48

VCS-E722H

- 700 TVL(Effio-E Sony)
- 2D-DNR, ATR
- C/CS

VCS-E712H

- 600 TVL(H-Bird Nextchip)
- 2D-DNR, D-WDR
- C/CS

VCS-E732W

- 600 TVL(EOS802-W76 H-Tech)
- 2D DNR, WDR
- C/CS

PRODUCT LINE-UP

Miniature & Module Camera

P.50



VCL-442H

- 700 TVL(Refia-D Nextchip)
- 3D-DNR, x256 Sense up, D-WDR
- Fixed lens
- World smallest bullet camera



VCL-422H

- 700 TVL(Effio-E Sony)
- 2D-DNR, ATR
- Fixed lens
- World smallest bullet camera

P.51



VCQ-352W

- 700 TVL(Effio-P Sony)
- WDR, 3D DNR, x512 Sense up
- Fixed lens



VCQ2-242H

- 700 TVL(Refia-D Nextchip)
- 3D DNR, x256 Sense up, D-WDR
- Fixed lens
- World smallest miniature camera

P.52



VCB-630DM

- 3.1M(HD-IP)
- Ultra resolution Image(2048 X 1536)
- 2D-DNR, Sense up, D-WDR
- 42 x 42mm, 3 board



VCB-750W

- 700 TVL(Effio-P Sony)
- WDR, 3D-DNR, x512 Sense up
- 38 x 38mm or 32 x 32mm

P.53



VCB-740H

- 700 TVL(Refia-D Nextchip)
- 3D-DNR, x256 Sense up, D-WDR
- 38 x 38mm or 32 x 32mm



VCB-720H

- 700 TVL(Effio-E Sony)
- 2D-DNR, ATR, Smart IR
- 38 x 38mm or 32 x 32mm

DVR / Special Camera / Lens

P.55



HD-DVR

- 1080P Input
- HDMI / SDI Output
- 3G App viewer
- 4/8/16CH

P.56



VFS-0412/0824/1648

- Triplex
- H.264
- 120fps(4Ch) / 240fps(8Ch) / 480fps(16Ch)
- 4Ch / 8Ch / 16Ch

P.57



VHS-0824/1648

- Triplex
- H.264
- 240fps(8Ch) / 480fps(16Ch)
- 8Ch / 16Ch



VCH-P250H

- 550 TVL
- PIR type
- f=4.3mm Pinhole lens
- Audio, D&N



VCH-P772H

- 550 TVL
- Smoke Detector type
- f=3.7mm Pinhole lens
- Audio, D&N



VCE-P250H/N

- 550 TVL
- Mini Ball type
- f=3.7mm Pinhole lens
- D&N

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LENS

- Fixed
- Pinhole
- Varifocal
- Mega lens



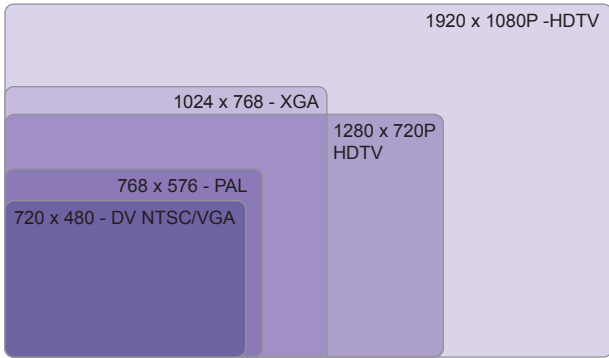
HD-SDI CAMERA

VCN-V610DM-IR / VCN2-V610DM-IR
VCL2-V610DM-IR / VCL3-F610DM-IR
VCL4-F910DM-IR / VCS2-E510DM
VCV6-V610DM-IR / VCD6-V610DM-IR
VCD2-F912DM / VCQ3-512DM

HD-SDI Camera

1080P Full HD CCTV

The high resolution up to maximum 1920x1080 at 30fps (real time) delivers the superior objects' recognition for the perfect surveillance monitoring solution.



Progressive Scan CMOS vs Interlaced CMOS

In the case of the interlaced scan problem it occurs an ocular spectrum if the subject moves quickly. But our camera solves that problem by mounting the 2.2 Mega pixel ProgressiveScan CMOS. So it can make the high quality image for defining the number plate and the face.



Interlaced Scan Image CMOS



Progressive Scan Image CMOS

HLM (High Light Mask)

The camera is equipped with HLM(High Light Mask) which blocks strong partial back light. Removing the high light makes it possible to view a number plate efficiently.



HLM OFF



HLM ON

WDR (Wide Dynamic Range)

It provides no limitation of zone area with the WDR function and the image is more clear than when using traditional BLC function. It combines bright area with high shutter speed exposure and dark area with low shutter speed exposure into one composite image in order to get details from dark and bright combination image without any saturation.



WDR OFF



WDR ON

DNR (Digital Noise Reduction)

The noise reduction technology can get rid of noise in low-light conditions without ghosting or blurring.



DNR OFF



DNR ON

Powerful Digital Zoom

The camera provides more recognizable picture after D-Zoom operation.



Conventional camera



D-Zoom camera

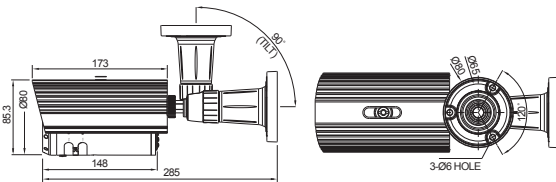
VCN-V610DM-IR



Features

- 1/3" Panasonic 2.2M Progressive Scan CMOS
- HD-SDI : 1080@30p/25p, 720@60p/50p
- NTSC, PAL CVBS without WDR
- 44pcs IR LED, Max. 45m IR Distance
- f=2.8~12mm DC IRIS Varifocal Lens
- True Day & Night with ICR Mechanism
- External Zoom and Focus Adjustment
- WDR(Wide Dynamic Range compensation)
- Adaptive Contrast Enhancer
- Digital Noise Reduction(2D/3D)
- Motion detection, Privacy mask, High Light Masking
- Digital Slow Shutter, Digital Zoom, RS485 communication
- On Screen Display key
- Weather-proof (IP65)
- Cable Concealed Bracket

Dimensions (Unit :mm)



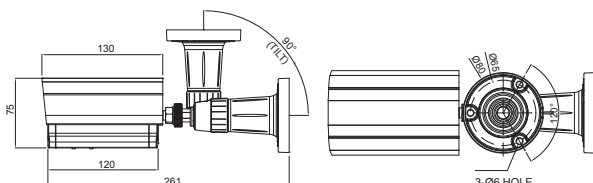
VCN2-V610DM-IR



Features

- 1/3" Panasonic 2.2M Progressive Scan CMOS
- HD-SDI : 1080@30p/25p, 720@60p/50p
- NTSC, PAL CVBS without WDR
- 36pcs IR LED, Max. 40m IR Distance
- f=2.8~12mm DC IRIS Varifocal Lens
- True Day & Night with ICR Mechanism
- External Zoom and Focus Adjustment
- WDR(Wide Dynamic Range compensation)
- Adaptive Contrast Enhancer
- Digital Noise Reduction(2D/3D)
- Motion detection, Privacy mask, High Light Masking
- Digital Slow Shutter, Digital Zoom, RS485 communication
- On Screen Display key
- Water-proof (IP67)
- Cable Concealed Bracket

Dimensions (Unit :mm)



Specifications

Model	VCN-V610DM-IR			
Camera	Image Device	1/3" Panasonic 2.2M Progressive Scan CMOS		
	Scanning System	Progressive Scan		
	Total Pixels	2010(H) x 1108(V) approx. 2.2M pixels		
	Effective Pixels	1944(H) x 1092(V) approx. 2.1M pixels		
	Lens	Varifocal DC Auto Iris		
	Day & Night System	True D&N with ICR (Mechanism Filter Mountable)		
	Min. Illumination	0.0Lux (IR LED ON)		
	Sync System	Internal		
	Electronic Shutter	60Hz : 1/30~1/30,000sec, 50Hz : 1/25~1/30,000sec		
	Video	IREF wavelength	850nm	
Infrared Luminary		44pcs IR LED		
IP Rating		IP65 (Weatherproof)		
Output 1		HD-SDI		
Output 2		CVBS (NTSC, PAL) without WDR		
Resolution & Frame rate		1080p@30/25fps, 720@60/50fps		
OSD		On Screen Display	Built-in	
		Language	English	
		LENS	DC(indoor,outdoor,deblur selectable)/ MANUAL(normal,deblur selectable)	
		EXPOSURE	BRIGHTNESS	0 ~ 20
	AGC		0 ~ 20	
	SHUTTER MODE		AUTO/ MANUAL	
	SHUTTER SPEED		1/30(25), 60(50), 120(100), 250, 700, 1K,1.6K, 5K, 7K, 10K, 30K	
	WHITE BAL.	SENSE-UP	OFF/ X2/ X3/ X4 /X5 /X6 /X7 /X8	
		MODE	AWB/ ATW/ PUSH LOCK/ MANUAL	
	WDR/BLC/ACE	MANUAL MODE	COLOR TEMP/ RED GAIN/ BLUE GAIN	
MODE		OFF/ WDR/ BLC/ ACE		
BLC POS/SIZE X, Y	0 ~ 20			
OSD Function	DNR	OFF/ LOW/ MIDDLE/ HIGH		
	DAY&NIGHT	MODE	AUTO/ COLOR/ B&W(Smart IR)	
		BURST	OFF/ ON	
		DWELL TIME	0 ~ 9sec, 1sec/step	
	IMAGE	D->N LEVEL	11(bright) ~ 20(dark)	
		N->D LEVEL	0(bright) ~ 10(dark)	
	SPECIAL	SHARPNESS	0 ~ 20	
		COLOR LEVEL	0 ~ 20	
		MIRROR	OFF/ ON	
		FLIP	OFF/ ON	
SYSTEM	LENS SHADING	OFF/ ON		
	GAMMA	0 ~ 4		
	D-ZOOM	1 ~ 40X		
	COMM ADJUST	CAM ID/ BAUD RATE/ 485 TERM.		
	PRIVACY	OFF/ ON (position, size, color adjustable)		
	HLM	OFF/ ON (level, color adjustable)		
	MOTION	OFF/ ON(sensitivity,mask mode,position, size,mask tone adjustable)		
	SDI FORMAT	1080p/ 720p		
	SDI FPS	30 /25@1080p, 60/50@720p		
	FREQ (NT/PAL)	60Hz (NTSC)/ 50Hz (PAL)		
Others	CVBS SCALE	FULL/ CUT		
	CVBS OUT	OFF/ ON		
	Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)		
	Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)		
	Humidity	Less than 80%		
	Power Consumption	DC12V(±10%), Max.630mA (IR LED ON)		
	Dimension	Ø60 x 153mm		
	Weight	Approx. 1400g(3.0lb)		

Specifications

Model	VCN2-V610DM-IR			
Camera	Image Device	1/3" Panasonic 2.2M Progressive Scan CMOS		
	Scanning System	Progressive Scan		
	Total Pixels	2010(H) x 1108(V) approx. 2.2M pixels		
	Effective Pixels	1944(H) x 1092(V) approx. 2.1M pixels		
	Lens	Varifocal DC Auto Iris		
	Day & Night System	True D&N with ICR (Mechanism Filter Mountable)		
	Min. Illumination	0.0Lux (IR LED ON)		
	Sync System	Internal		
	Electronic Shutter	60Hz : 1/30~1/30,000sec, 50Hz : 1/25~1/30,000sec		
	Video	IREF wavelength	850nm	
Infrared Luminary		36pcs IR LED		
IP Rating		IP67 (Waterproof)		
Output 1		HD-SDI		
Output 2		CVBS (NTSC, PAL) without WDR		
Resolution & Frame rate		1080p@30/25fps, 720@60/50fps		
OSD		On Screen Display	Built-in	
		Language	English	
		LENS	DC(indoor,outdoor,deblur selectable)/ MANUAL(normal,deblur selectable)	
		EXPOSURE	BRIGHTNESS	0 ~ 20
	AGC		0 ~ 20	
	SHUTTER MODE		AUTO/ MANUAL	
	SHUTTER SPEED		1/30(25), 60(50), 120(100), 250, 700, 1K,1.6K, 5K, 7K, 10K, 30K	
	WHITE BAL.	SENSE-UP	OFF/ X2/ X3/ X4 /X5 /X6 /X7 /X8	
		MODE	AWB/ ATW/ PUSH LOCK/ MANUAL	
	WDR/BLC/ACE	MANUAL MODE	COLOR TEMP/ RED GAIN/ BLUE GAIN	
MODE		OFF/ WDR/ BLC/ ACE		
BLC POS/SIZE X, Y	0 ~ 20			
OSD Function	DNR	OFF/ LOW/ MIDDLE/ HIGH		
	DAY&NIGHT	MODE	AUTO/ COLOR/ B&W(Smart IR)	
		BURST	OFF/ ON	
		DWELL TIME	0 ~ 9sec, 1sec/step	
	IMAGE	D->N LEVEL	11(bright) ~ 20(dark)	
		N->D LEVEL	0(bright) ~ 10(dark)	
	SPECIAL	SHARPNESS	0 ~ 20	
		COLOR LEVEL	0 ~ 20	
		MIRROR	OFF/ ON	
		FLIP	OFF/ ON	
SYSTEM	LENS SHADING	OFF/ ON		
	GAMMA	0 ~ 4		
	D-ZOOM	1 ~ 40X		
	COMM ADJUST	CAM ID/ BAUD RATE/ 485 TERM.		
	PRIVACY	OFF/ ON (position, size, color adjustable)		
	HLM	OFF/ ON (level, color adjustable)		
	MOTION	OFF/ ON(sensitivity,mask mode,position, size,mask tone adjustable)		
	SDI FORMAT	1080p/ 720p		
	SDI FPS	30 /25@1080p, 60/50@720p		
	FREQ (NT/PAL)	60Hz (NTSC)/ 50Hz (PAL)		
Others	CVBS SCALE	FULL/ CUT		
	CVBS OUT	OFF/ ON		
	Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)		
	Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)		
	Humidity	Less than 80%		
	Power Consumption	DC12V(±10%), Max.480mA (IR LED ON)		
	Dimension	Ø70 x 150mm		
	Weight	Approx. 1000g(2.2lb)		

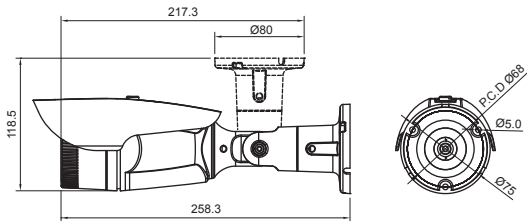
VCL2-V610DM-IR



Features

- 1/3" Panasonic 2.2M Progressive Scan CMOS
- HD-SDI : 1080@30p/25p, 720@60p/50p
- NTSC, PAL CVBS without WDR
- 42pcs IR LED, Max. 40m IR Distance
- f=2.8~12mm DC IRIS Varifocal Lens
- True Day & Night with ICR Mechanism
- WDR(Wide Dynamic Range compensation)
- Adaptive Contrast Enhancer
- Digital Noise Reduction(2D/3D)
- Motion detection, Privacy mask, High Light Masking
- Digital Slow Shutter, Digital Zoom,
- On Screen Display key
- Water-proof (IP67)
- Cable Concealed Bracket

Dimensions (Unit :mm)



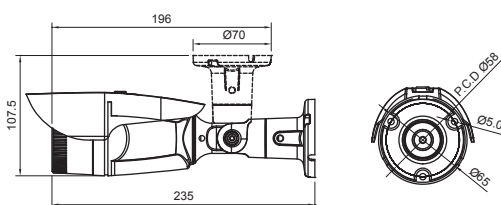
VCL3-F610DM-IR



Features

- 1/3" Panasonic 2.2M Progressive Scan CMOS
- HD-SDI : 1080@30p/25p, 720@60p/50p
- NTSC, PAL CVBS without WDR
- 48pcs IR LED, Max. 35m IR Distance
- f=3.7 / 4.3 / 6.0mm mega fixed board lens
- True Day & Night function (Exchange of two filters)
- WDR(Wide Dynamic Range compensation)
- Adaptive Contrast Enhancer
- Digital Noise Reduction(2D/3D)
- Motion detection, Privacy mask, High Light Masking
- Digital Slow Shutter, Digital Zoom,
- On Screen Display key
- Water-proof (IP67)
- Cable Concealed Bracket

Dimensions (Unit :mm)



Specifications

Model	VCL2-V610DM-IR		
Camera	Image Device	1/3" Panasonic 2.2M Progressive Scan CMOS	
	Scanning System	Progressive Scan	
	Total Pixels	2010(H) x 1108(V) approx. 2.2M pixels	
	Effective Pixels	1944(H) x 1092(V) approx. 2.1M pixels	
	Lens	f=2.8~12mm DC Auto IRIS Varifocal	
	Day & Night System	True D&N with ICR (Mechanism Filter Mountable)	
	Min. Illumination	0.0Lux (IR LED ON)	
	Sync System	Internal	
	Electronic Shutter	60Hz : 1/30~1/30,000sec, 50Hz : 1/25~1/30,000sec	
	IR LED wavelength	850nm	
	Infrared Luminary	42pcs IR LED	
	IP Rating	IP67 (Waterproof)	
Video	Output 1	HD-SDI	
	Output 2	CVBS (NTSC, PAL) without WDR	
OSD	Resolution & Frame rate	1080p@30/25fps, 720@60/50fps	
	On Screen Display Language	Built-in English	
OSD Function	LENS	BRIGHTNESS	DC(indoor,outdoor,deblur selectable)/ MANUAL(normal,deblur selectable)
		AGC	0 ~ 20
	EXPOSURE	SHUTTER MODE	AUTO/ MANUAL
		SHUTTER SPEED	1/30(25), 60(50), 120(100), 250, 700, 1K,1.6K, 5K, 7K, 10K, 30K
		SENSE-UP	OFF/ X2/ X3/ X4 /X5 /X6 /X7 /X8
	WHITE BAL.	MODE	AWB/ ATW/ PUSH LOCK/ MANUAL
		MANUAL MODE	COLOR TEMP/ RED GAIN/ BLUE GAIN
	WDR/BLC/ACE	MODE	OFF/ WDR/ BLC/ ACE
		BLC POS/SIZE X, Y	0 ~ 20
	DNR	MODE	OFF/ LOW/ MIDDLE/ HIGH
		AUTO/ COLOR/ B&W(Smart IR)	
	DAY&NIGHT	BURST	OFF/ ON
DWELL TIME		0 ~ 9sec, 1sec/step	
D->N LEVEL		11(bright) ~ 20(dark)	
N->D LEVEL		0(bright) ~ 10(dark)	
IMAGE	SHARPNESS	0 ~ 20	
	COLOR LEVEL	0 ~ 20	
	MIRROR	OFF/ ON	
	FLIP	OFF/ ON	
SPECIAL	LENS SHADING	OFF/ ON	
	GAMMA	0 ~ 4	
	D-ZOOM	1 ~ 40X	
	COMM ADJUST	CAM ID/ BAUD RATE/ 485 TERM.	
SYSTEM	PRIVACY	OFF/ ON (position, size, color adjustable)	
	HLM	OFF/ ON (level, color adjustable)	
	MOTION	OFF/ ON (sensitivity,mask mode,position, size,mask tone adjustable)	
	SDI FORMAT	1080p/ 720p	
Others	SDI FPS	30 /25@1080p, 60/50@720p	
	FREQ (NT/PAL)	60Hz (NTSC)/ 50Hz (PAL)	
	CVBS SCALE	FULL/ CUT	
	CVBS OUT	OFF/ ON	
	Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	
	Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	
	Humidity	Less than 80%	
	Power Consumption	DC12V(±10%), Max.520mA (IR LED ON)	
	Dimension	Ø75x 168mm	
	Weight	Approx. 680g(1.5lb)	

Specifications

Model	VCL3-F610DM-IR		
Camera	Image Device	1/3" Panasonic 2.2M Progressive Scan CMOS	
	Scanning System	Progressive Scan	
	Total Pixels	2010(H) x 1108(V) approx. 2.2M pixels	
	Effective Pixels	1944(H) x 1092(V) approx. 2.1M pixels	
	Lens	f=3.7 / 4.3 / 6.0mm mega fixed board lens	
	Day & Night System	True D&N with ICR (Mechanism Filter Mountable)	
	Min. Illumination	0.0Lux (IR LED ON)	
	Sync System	Internal	
	Electronic Shutter	60Hz : 1/30~1/30,000sec, 50Hz : 1/25~1/30,000sec	
	IR LED wavelength	850nm	
	Infrared Luminary	48pcs IR LED	
	IP Rating	IP67 (Waterproof)	
Video	Output 1	HD-SDI	
	Output 2	CVBS (NTSC, PAL) without WDR	
OSD	Resolution & Frame rate	1080p@30/25fps, 720@60/50fps	
	On Screen Display Language	Built-in English	
OSD Function	LENS	BRIGHTNESS	DC(indoor,outdoor,deblur selectable)/ MANUAL(normal,deblur selectable)
		AGC	0 ~ 20
	EXPOSURE	SHUTTER MODE	AUTO/ MANUAL
		SHUTTER SPEED	1/30(25), 60(50), 120(100), 250, 700, 1K,1.6K, 5K, 7K, 10K, 30K
		SENSE-UP	OFF/ X2/ X3/ X4 /X5 /X6 /X7 /X8
	WHITE BAL.	MODE	AWB/ ATW/ PUSH LOCK/ MANUAL
		MANUAL MODE	COLOR TEMP/ RED GAIN/ BLUE GAIN
	WDR/BLC/ACE	MODE	OFF/ WDR/ BLC/ ACE
		BLC POS/SIZE X, Y	0 ~ 20
	DNR	MODE	OFF/ LOW/ MIDDLE/ HIGH
		AUTO/ COLOR/ B&W(Smart IR)	
	DAY&NIGHT	BURST	OFF/ ON
DWELL TIME		0 ~ 9sec, 1sec/step	
D->N LEVEL		11(bright) ~ 20(dark)	
N->D LEVEL		0(bright) ~ 10(dark)	
IMAGE	SHARPNESS	0 ~ 20	
	COLOR LEVEL	0 ~ 20	
	MIRROR	OFF/ ON	
	FLIP	OFF/ ON	
SPECIAL	LENS SHADING	OFF/ ON	
	GAMMA	0 ~ 4	
	D-ZOOM	1 ~ 40X	
	COMM ADJUST	CAM ID/ BAUD RATE/ 485 TERM.	
SYSTEM	PRIVACY	OFF/ ON (position, size, color adjustable)	
	HLM	OFF/ ON (level, color adjustable)	
	MOTION	OFF/ ON (sensitivity,mask mode,position, size,mask tone adjustable)	
	SDI FORMAT	1080p/ 720p	
Others	SDI FPS	30 /25@1080p, 60/50@720p	
	FREQ (NT/PAL)	60Hz (NTSC)/ 50Hz (PAL)	
	CVBS SCALE	FULL/ CUT	
	CVBS OUT	OFF/ ON	
	Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	
	Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	
	Humidity	Less than 80%	
	Power Consumption	DC12V(±10%), Max.560mA (IR LED ON)	
	Dimension	Ø65 x 159mm	
	Weight	Approx. 540g(1.2lb)	

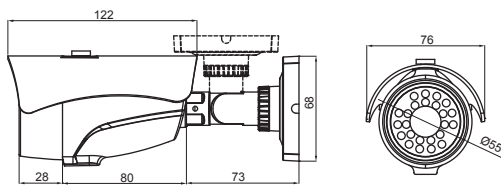
VCL4-F910DM-IR



Features

- 1/3" Panasonic 2.2M Progressive Scan CMOS
- HD-SDI : 1080@30p/25p, 720@60p/50p
- NTSC, PAL CVBS without WDR
- 25pcs IR LED, Max. 30m IR Distance
- f=3.7 / 4.3 / 6.0mm mega fixed board lens
- True Day & Night function (Exchange of two filters)
- WDR(Wide Dynamic Range compensation)
- Adaptive Contrast Enhancer
- Digital Noise Reducer(2D/3D)
- Motion detection, Privacy mask, High Light Masking
- Digital Slow Shutter, Digital Zoom,
- On Screen Display key (option)
- Water-proof (IP67)
- Cable Concealed Bracket

Dimensions (Unit :mm)



Specifications

Model	VCL4-F910DM-IR	
Camera	Image Device	1/3" Panasonic 2.2M Progressive Scan CMOS
	Scanning System	Progressive Scan
	Total Pixels	2010(H) x 1108(V) approx. 2.2M pixels
	Effective Pixels	1944(H) x 1092(V) approx. 2.1M pixels
	Lens	f=3.7 / 4.3 / 6.0mm mega fixed board lens
	Day & Night System	True D&N with ICR (Mechanism Filter Mountable)
	Min. Illumination	0.0Lux (IR LED ON)
	Sync System	Internal
	Electronic Shutter	60Hz : 1/30~1/30,000sec, 50Hz : 1/25~1/30,000sec
	IR LED wavelength	850nm
	Infrared Luminary	25pcs IR LED
	IP Rating	IP67 (Waterproof)
	Output 1	HD-SDI
	Output 2	CVBS (NTSC, PAL) without WDR
Video	Resolution & Frame rate	1080p@30/25fps, 720@60/50fps
	On Screen Display	Built-in
OSD	Language	English
	LENS	DC(indoor,outdoor,deblur selectable)/ MANUAL(normal,deblur selectable)
EXPOSURE	BRIGHTNESS	0 ~ 20
	AGC	0 ~ 20
	SHUTTER MODE	AUTO/ MANUAL
	SHUTTER SPEED	1/30(25), 60(50), 120(100), 250, 700, 1K,1.6K, 5K, 7K, 10K, 30K
WHITE BAL.	SENSE-UP	OFF/ X2/ X3/ X4 /X5 /X6 /X7 /X8
	MODE	AWB/ ATW/ PUSH LOCK/ MANUAL
MANUAL MODE	COLOR TEMP/ RED GAIN/ BLUE GAIN	
	MODE	OFF/ WDR/ BLC/ ACE
WDR/BLC/ ACE	BLC POS/SIZE X, Y	0 ~ 20
	DNR	OFF/ LOW/ MIDDLE/ HIGH
DAY&NIGHT	MODE	AUTO/ COLOR/ B&W(Smart IR)
	BURST	OFF/ ON
	DWELL TIME	0 ~ 9sec, 1sec/step
	D->N LEVEL	11(bright) ~ 20(dark)
IMAGE	N->D LEVEL	0(bright) ~ 10(dark)
	SHARPNESS	0 ~ 20
	COLOR LEVEL	0 ~ 20
	MIRROR	OFF/ ON
SPECIAL	FLIP	OFF/ ON
	LENS SHADING	OFF/ ON
	GAMMA	0 ~ 4
	D-ZOOM	1 ~ 40X
SYSTEM	COMM ADJUST	CAM ID/ BAUD RATE/ 485 TERM.
	PRIVACY	OFF/ ON (position, size, color adjustable)
	HLM	OFF/ ON (level, color adjustable)
	MOTION	OFF/ ON(sensitivity,mask mode,position, size,mask tone adjustable)
Others	SDI FORMAT	1080p/ 720p
	SDI FPS	30 /25@1080p, 60/50@720p
	FREQ (NT/PAL)	60Hz (NTSC)/ 50Hz (PAL)
	CVBS SCALE	FULL/ CUT
	CVBS OUT	OFF/ ON
	Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)
	Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)
	Humidity	Less than 80%
	Power Consumption	DC12V(±10%), Max.440mA (IR LED ON)
	Dimension	Ø55 x 122mm
Weight	Approx. 460g(1.0lb)	

VCS2-E510DM



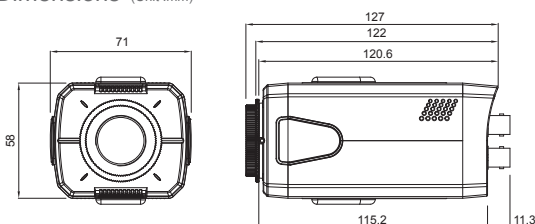
Features

- 1/3" Panasonic 2.2M Progressive Scan CMOS
- HD-SDI : 1080@30p/25p, 720@60p/50p
- NTSC, PAL CVBS without WDR
- True Day & Night function (Exchange of two filters)
- RS485 communication
- On Screen Display key
- WDR(Wide Dynamic Range compensation)
- Adaptive Contrast Enhancer
- Digital Noise Reducer(2D/3D)
- Motion detection, Privacy mask, High Light Masking
- Digital Slow Shutter, Digital Zoom

Optional model

- VCS2-E512DM : Without TDN Model

Dimensions (Unit :mm)



Specifications

Model	VCS2-E510DM		
Camera	Image Device	1/3" Panasonic 2.2M Progressive Scan CMOS	
	Scanning System	Progressive Scan	
	Total Pixels	2010(H) x 1108(V) approx. 2.2M pixels	
	Effective Pixels	1944(H) x 1092(V) approx. 2.1M pixels	
	Lens	C/C/S	
	Day & Night System	True D&N with ICR (Mechanism Filter Mountable)	
	Min. Illumination	0.1 lux @ F1.4, 30IRE	
	Sync System	Internal	
	Electronic Shutter	60Hz : 1/30~1/30,000sec, 50Hz : 1/25~1/30,000sec	
	Output 1	HD-SDI	
	Output 2	CVBS (NTSC, PAL) without WDR	
	Video	Resolution & Frame rate	1080p@30/25fps, 720@60/50fps
		On Screen Display	Built-in
	OSD	Language	English
LENS		DC(indoor,outdoor,deblur selectable)/ MANUAL(normal,deblur selectable)	
EXPOSURE	BRIGHTNESS	0 ~ 20	
	AGC	0 ~ 20	
	SHUTTER MODE	AUTO/ MANUAL	
	SHUTTER SPEED	1/30(25), 60(50), 120(100), 250, 700, 1K,1.6K, 5K, 7K, 10K, 30K	
WHITE BAL.	SENSE-UP	OFF/ X2/ X3/ X4 /X5 /X6 /X7 /X8	
	MODE	AWB/ ATW/ PUSH LOCK/ MANUAL	
MANUAL MODE	COLOR TEMP/ RED GAIN/ BLUE GAIN		
	MODE	OFF/ WDR/ BLC/ ACE	
WDR/BLC/ ACE	BLC POS/SIZE X, Y	0 ~ 20	
	DNR	OFF/ LOW/ MIDDLE/ HIGH	
DAY&NIGHT	MODE	AUTO/ EXT/ COLOR/ B&W	
	BURST	OFF/ ON	
	DWELL TIME	0 ~ 9sec, 1sec/step	
	D->N LEVEL	11(bright) ~ 20(dark)	
IMAGE	N->D LEVEL	0(bright) ~ 10(dark)	
	SHARPNESS	0 ~ 20	
	COLOR LEVEL	0 ~ 20	
	MIRROR	OFF/ ON	
SPECIAL	FLIP	OFF/ ON	
	LENS SHADING	OFF/ ON	
	GAMMA	0 ~ 4	
	D-ZOOM	1 ~ 40X	
SYSTEM	COMM ADJUST	CAM ID/ BAUD RATE/ 485 TERM.	
	PRIVACY	OFF/ ON (position, size, color adjustable)	
	HLM	OFF/ ON (level, color adjustable)	
	MOTION	OFF/ ON(sensitivity,mask mode,position, size,mask tone adjustable)	
Others	SDI FORMAT	1080p/ 720p	
	SDI FPS	30 /25@1080p, 60/50@720p	
	FREQ (NT/PAL)	60Hz (NTSC)/ 50Hz (PAL)	
	CVBS SCALE	FULL/ CUT	
	CVBS OUT	OFF/ ON	
	Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	
	Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	
	Humidity	Less than 80%	
	Power Consumption	DC12V(±10%), Max.200mA	
	Dimension	71(W) x 58(H) x 127(D)	
Weight	Approx. 240g(0.5lb)		

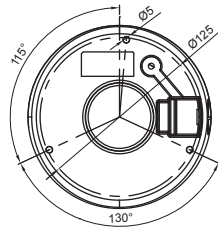
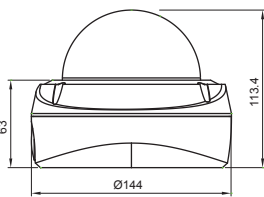
VCV6-V610DM-IR



Features

- 1/3" Panasonic 2.2M Progressive Scan CMOS
- HD-SDI : 1080@30p/25p, 720@60p/50p
- NTSC, PAL CVBS without WDR
- f=2.8~12mm DC IRIS Varifocal Lens
- 30pcs IR LED, Max. 35m IR Distance
- True Day & Night with ICR Mechanism
- RS485 communication
- On Screen Display key
- WDR(Wide Dynamic Range compensation)
- Adaptive Contrast Enhancer
- Digital Noise Reducer(2D/3D)
- Motion detection, Privacy mask, High Light Masking
- Digital Slow Shutter, Digital Zoom
- Die-Casting Aluminum Housing & PC Dome Glass
- 3-Axis Gimbal Bracket, Vandal-Water proof (IP67)
- Dimension: 100(Ø)mm Bubble size

Dimensions (Unit :mm)



Specifications

Model	VCV6-V610DM-IR		
Camera	Image Device	1/3" Panasonic 2.2M Progressive Scan CMOS	
	Scanning System	Progressive Scan	
	Total Pixels	2010(H) x 1108(V) approx. 2.2M pixels	
	Effective Pixels	1944(H) x 1092(V) approx. 2.1M pixels	
	Lens	Varifocal DC Auto Iris	
	Day & Night System	True D&N with ICR (Mechanism Filter Mountable)	
	Min. Illumination	0.0Lux (IR LED ON)	
	Sync System	Internal	
	Electronic Shutter	60Hz : 1/30~1/30,000sec, 50Hz : 1/25~1/30,000sec	
	IREF wavelength	850nm	
Video	Output 1	HD-SDI	
	Output 2	CVBS (NTSC, PAL) without WDR	
OSD	Resolution & Frame rate	1080p@30/25fps, 720@60/50fps	
	On Screen Display	Built-in	
OSD Function	Language	English	
	LENS	BRIGHTNESS	DC(indoor,outdoor,deblur selectable)/ MANUAL(normal,deblur selectable)
		AGC	0 ~ 20
	EXPOSURE	SHUTTER MODE	AUTO/ MANUAL
		SHUTTER SPEED	1/30(25), 60(50), 120(100), 250, 700, 1K,1.6K, 5K, 7K, 10K, 30K
		SENSE-UP	OFF/ X2/ X3/ X4 /X5 /X6 /X7 /X8
	WHITE BAL.	MODE	AWB/ ATW/ PUSH LOCK/ MANUAL
		MANUAL MODE	COLOR TEMP/ RED GAIN/ BLUE GAIN
	WDR/BLC/ACE	MODE	OFF/ WDR/ BLC/ ACE
		BLC POS/SIZE X, Y	0 ~ 20
DNR	MODE	OFF/ LOW/ MIDDLE/ HIGH	
	AUTO/ COLOR/ B&W(Smart IR)		
DAY&NIGHT	BURST	OFF/ ON	
	DWELL TIME	0 ~ 9sec, 1sec/step	
	D->N LEVEL	11(bright) ~ 20(dark)	
	N->D LEVEL	0(bright) ~ 10(dark)	
IMAGE	SHARPNESS	0 ~ 20	
	COLOR LEVEL	0 ~ 20	
	MIRROR	OFF/ ON	
	FLIP	OFF/ ON	
	LENS SHADING	OFF/ ON	
	GAMMA	0 ~ 4	
SPECIAL	D-ZOOM	1 ~ 40X	
	COMM ADJUST	CAM ID/ BAUD RATE/ 485 TERM.	
	PRIVACY	OFF/ ON (position, size, color adjustable)	
	HLM	OFF/ ON (level, color adjustable)	
SYSTEM	MOTION	OFF/ ON(sensitivity,mask mode,position, size,mask tone adjustable)	
	SDI FORMAT	1080p/ 720p	
	SDI FPS	30 /25@1080p, 60/50@720p	
	FREQ (NT/PAL)	60Hz (NTSC)/ 50Hz (PAL)	
Others	CVBS SCALE	FULL/ CUT	
	CVBS OUT	OFF/ ON	
	Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	
	Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	
	Humidity	Less than 80%	
	Power Consumption	DC12V(±10%), Max.400mA (IR LED ON)	
	Dimension	Ø144 x 113.4mm	
	Weight	Approx. 860g(1.9lb)	

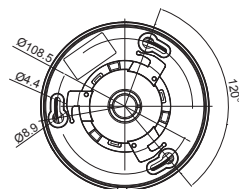
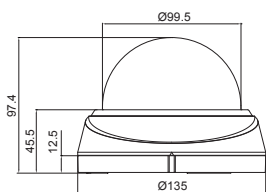
VCD6-V610DM-IR



Features

- 1/3" Panasonic 2.2M Progressive Scan CMOS
- HD-SDI : 1080@30p/25p, 720@60p/50p
- NTSC, PAL CVBS without WDR
- f=2.8~12mm DC IRIS Varifocal Lens
- 30pcs IR LED, Max. 35m IR Distance
- True Day & Night with ICR Mechanism
- RS485 communication
- On Screen Display key
- WDR(Wide Dynamic Range compensation)
- Adaptive Contrast Enhancer
- Digital Noise Reducer(2D/3D)
- Motion detection, Privacy mask, High Light Masking
- Digital Slow Shutter, Digital Zoom
- Dimension: 100(Ø)mm Bubble size

Dimensions (Unit :mm)



Specifications

Model	VCD6-V610DM-IR		
Camera	Image Device	1/3" Panasonic 2.2M Progressive Scan CMOS	
	Scanning System	Progressive Scan	
	Total Pixels	2010(H) x 1108(V) approx. 2.2M pixels	
	Effective Pixels	1944(H) x 1092(V) approx. 2.1M pixels	
	Lens	f=2.8~12mm DC IRIS Varifocal Lens	
	Day & Night System	True D&N with ICR (Mechanism Filter Mountable)	
	Min. Illumination	0.0Lux (IR LED ON)	
	Sync System	Internal	
	Electronic Shutter	60Hz : 1/30~1/30,000sec, 50Hz : 1/25~1/30,000sec	
	IREF wavelength	850nm	
Video	Output 1	HD-SDI	
	Output 2	CVBS (NTSC, PAL) without WDR	
OSD	Resolution & Frame rate	1080p@30/25fps, 720@60/50fps	
	On Screen Display	Built-in	
OSD Function	Language	English	
	LENS	BRIGHTNESS	DC(indoor,outdoor,deblur selectable)/ MANUAL(normal,deblur selectable)
		AGC	0 ~ 20
	EXPOSURE	SHUTTER MODE	AUTO/ MANUAL
		SHUTTER SPEED	1/30(25), 60(50), 120(100), 250, 700, 1K,1.6K, 5K, 7K, 10K, 30K
		SENSE-UP	OFF/ X2/ X3/ X4 /X5 /X6 /X7 /X8
	WHITE BAL.	MODE	AWB/ ATW/ PUSH LOCK/ MANUAL
		MANUAL MODE	COLOR TEMP/ RED GAIN/ BLUE GAIN
	WDR/BLC/ACE	MODE	OFF/ WDR/ BLC/ ACE
		BLC POS/SIZE X, Y	0 ~ 20
DNR	MODE	OFF/ LOW/ MIDDLE/ HIGH	
	AUTO/ COLOR/ B&W(Smart IR)		
DAY&NIGHT	BURST	OFF/ ON	
	DWELL TIME	0 ~ 9sec, 1sec/step	
	D->N LEVEL	11(bright) ~ 20(dark)	
	N->D LEVEL	0(bright) ~ 10(dark)	
IMAGE	SHARPNESS	0 ~ 20	
	COLOR LEVEL	0 ~ 20	
	MIRROR	OFF/ ON	
	FLIP	OFF/ ON	
	LENS SHADING	OFF/ ON	
	GAMMA	0 ~ 4	
SPECIAL	D-ZOOM	1 ~ 40X	
	COMM ADJUST	CAM ID/ BAUD RATE/ 485 TERM.	
	PRIVACY	OFF/ ON (position, size, color adjustable)	
	HLM	OFF/ ON (level, color adjustable)	
SYSTEM	MOTION	OFF/ ON (sensitivity,mask mode,position, size,mask tone adjustable)	
	SDI FORMAT	1080p/ 720p	
	SDI FPS	30 /25@1080p, 60/50@720p	
	FREQ (NT/PAL)	60Hz (NTSC)/ 50Hz (PAL)	
Others	CVBS SCALE	FULL/ CUT	
	CVBS OUT	OFF/ ON	
	Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	
	Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	
	Humidity	Less than 80%	
	Power Consumption	DC12V(±10%), Max.400mA (IR LED ON)	
	Dimension	Ø135 x 97.4mm	
	Weight	Approx. 360g(0.8lb)	

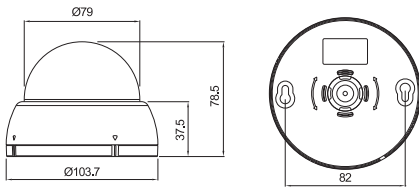
VCD2-F912DM



Features

- 1/3" Panasonic 2.2M Progressive Scan CMOS
- HD-SDI : 1080@30p/25p, 720@60p/50p
- NTSC, PAL CVBS without WDR
- f=3.7 / 4.3 / 6.0mm mega fixed board lens
- On Screen Display key
- WDR(Wide Dynamic Range compensation)
- Adaptive Contrast Enhancer
- Digital Noise Reducer(2D/3D)
- Motion detection, Privacy mask, High Light Masking
- Digital Slow Shutter, Digital Zoom,
- Dimension: 80(Ø)mm Bubble size

Dimensions (Unit :mm)



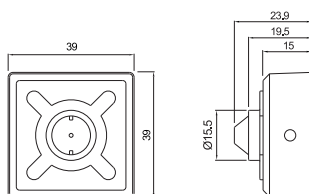
VCQ3-512DM



Features

- 1/3" Panasonic 2.2M Progressive Scan CMOS
- HD-SDI : 1080@30p/25p, 720@60p/50p
- NTSC, PAL CVBS without WDR
- f=3.7mm Pinhole Lens
- On Screen Display key
- WDR(Wide Dynamic Range compensation)
- Adaptive Contrast Enhancer
- Digital Noise Reducer(2D/3D)
- Motion detection, Privacy mask, High Light Masking
- Digital Slow Shutter, Digital Zoom
- Dimension : 39mm(W) x 39mm(H)

Dimensions (Unit :mm)



Specifications

Model	VCD2-F912DM		
Camera	Image Device	1/3" Panasonic 2.2M Progressive Scan CMOS	
	Scanning System	Progressive Scan	
	Total Pixels	2010(H) x 1108(V) approx. 2.2M pixels	
	Effective Pixels	1944(H) x 1092(V) approx. 2.1M pixels	
	Lens	f=3.7 / 4.3 / 6.0mm mega fixed board lens	
	Day & Night System	Digital D&N	
	Min. Illumination	0.1 lux @ F1.4, 30IRE	
	Sync System	Internal	
	Electronic Shutter	60Hz : 1/30~1/30,000sec, 50Hz : 1/25~1/30,000sec	
	Video	Output 1	HD-SDI
Output 2		CVBS (NTSC, PAL) without WDR	
OSD	Resolution & Frame rate	1080p@30/25fps, 720@60/50fps	
	On Screen Display	Built-in	
OSD	Language	English	
	DC(indoor,outdoor,deblur selectable)/ MANUAL(normal,deblur selectable)		
OSD Function	LENS		
	BRIGHTNESS	0 ~ 20	
	AGC	0 ~ 20	
	EXPOSURE	SHUTTER MODE	AUTO/ MANUAL
	SHUTTER SPEED	1/30(25), 60(50), 120(100), 250, 700, 1K, 1.6K, 5K, 7K, 10K, 30K	
	SENSE-UP	OFF/ X2/ X3/ X4 /X5 /X6 /X7 /X8	
	WHITE BAL.	MODE	AWB/ ATW/ PUSH LOCK/ MANUAL
	MANUAL MODE	COLOR TEMP/ RED GAIN/ BLUE GAIN	
	WDR/BLC/ACE	MODE	OFF/ WDR/ BLC/ ACE
	BLC POS/SIZE X, Y	0 ~ 20	
OSD Function	DNR	MODE	OFF/ LOW/ MIDDLE/ HIGH
	DAY&NIGHT	BURST	AUTO/ EXT / COLOR/ B&W
	DWELL TIME	OFF/ ON	
	D->N LEVEL	0 ~ 9sec, 1sec/step	
	N->D LEVEL	11(bright) ~ 20(dark)	
	SHARPNESS	0 ~ 20	
	COLOR LEVEL	0 ~ 20	
	MIRROR	OFF/ ON	
	FLIP	OFF/ ON	
	LENS SHADING	OFF/ ON	
OSD Function	GAMMA	0 ~ 4	
	D-ZOOM	1 ~ 40X	
	COMM ADJUST	CAM ID/ BAUD RATE/ 485 TERM.	
	PRIVACY	OFF/ ON (position, size, color adjustable)	
	HLM	OFF/ ON (level, color adjustable)	
	MOTION	OFF/ ON(sensitivity,mask mode,position, size,mask tone adjustable)	
	SDI FORMAT	1080p/ 720p	
	SDI FPS	30 /25@1080p, 60/50@720p	
	FREQ (NT/PAL)	60Hz (NTSC)/ 50Hz (PAL)	
	CVBS SCALE	FULL/ CUT	
Others	CVBS OUT	OFF/ ON	
	Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	
	Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	
	Humidity	Less than 80%	
	Power Consumption	DC12V(±10%), Max.200mA	
	Dimension	Ø79 x 78.5mm	
	Weight	Approx. 300g(0.7lb)	

Specifications

Model	VCQ3-512DM		
Camera	Image Device	1/3" Panasonic 2.2M Progressive Scan CMOS	
	Scanning System	Progressive Scan	
	Total Pixels	2010(H) x 1108(V) approx. 2.2M pixels	
	Effective Pixels	1944(H) x 1092(V) approx. 2.1M pixels	
	Lens	Fixed Iris	
	Day & Night System	Digital D&N	
	Min. Illumination	0.1 lux @ F1.4, 30IRE	
	Sync System	Internal	
	Electronic Shutter	60Hz : 1/30~1/30,000sec, 50Hz : 1/25~1/30,000sec	
	Video	Output 1	HD-SDI
Output 2		CVBS (NTSC, PAL) without WDR	
OSD	Resolution & Frame rate	1080p@30/25fps, 720@60/50fps	
	On Screen Display	Built-in	
OSD	Language	English	
	DC(indoor,outdoor,deblur selectable)/ MANUAL(normal,deblur selectable)		
OSD Function	LENS		
	BRIGHTNESS	0 ~ 20	
	AGC	0 ~ 20	
	EXPOSURE	SHUTTER MODE	AUTO/ MANUAL
	SHUTTER SPEED	1/30(25), 60(50), 120(100), 250, 700, 1K, 1.6K, 5K, 7K, 10K, 30K	
	SENSE-UP	OFF/ X2/ X3/ X4 /X5 /X6 /X7 /X8	
	WHITE BAL.	MODE	AWB/ ATW/ PUSH LOCK/ MANUAL
	MANUAL MODE	COLOR TEMP/ RED GAIN/ BLUE GAIN	
	WDR/BLC/ACE	MODE	OFF/ WDR/ BLC/ ACE
	BLC POS/SIZE X, Y	0 ~ 20	
OSD Function	DNR	MODE	OFF/ LOW/ MIDDLE/ HIGH
	DAY&NIGHT	BURST	AUTO/ EXT/ COLOR/ B&W
	DWELL TIME	OFF/ ON	
	D->N LEVEL	0 ~ 9sec, 1sec/step	
	N->D LEVEL	11(bright) ~ 20(dark)	
	SHARPNESS	0 ~ 20	
	COLOR LEVEL	0 ~ 20	
	MIRROR	OFF/ ON	
	FLIP	OFF/ ON	
	LENS SHADING	OFF/ ON	
OSD Function	GAMMA	0 ~ 4	
	D-ZOOM	1 ~ 40X	
	COMM ADJUST	CAM ID/ BAUD RATE/ 485 TERM.	
	PRIVACY	OFF/ ON (position, size, color adjustable)	
	HLM	OFF/ ON (level, color adjustable)	
	MOTION	OFF/ ON (sensitivity,mask mode,position, size,mask tone adjustable)	
	SDI FORMAT	1080p/ 720p	
	SDI FPS	30 /25@1080p, 60/50@720p	
	FREQ (NT/PAL)	60Hz (NTSC)/ 50Hz (PAL)	
	CVBS SCALE	FULL/ CUT	
Others	CVBS OUT	OFF/ ON	
	Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	
	Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	
	Humidity	Less than 80%	
	Power Consumption	DC12V(±10%), Max.200mA	
	Dimension	39(W) x 39(H) x 23.7(D)mm	
	Weight	Approx. 135g(0.3lb)	



Mega IP CAMERA

VCN-V630DM-IR , VCN-V640DM-IR
VCN2-V630DM-IR, VCN2-V640DM-IR
VCV6-V630DM-IR, VCV6-V640DM-IR
VCD6-V630DM-IR, VCD6-V640DM-IR

Mega IP Camera

Visionite IP Cameras, More Pixels. Higher Resolution .Simply a Better Image.

Visionite 3MP cameras have a extremely high resolution of 2048 x 1536. This is almost 15X better than a D1 resolution of 704 x 480i which is the maximum of analog camera recorded DVR.



Progressive Scan VS Interlaced

In case of the interlaced scan problem it occurs an ocular spectrum if the subject moves quickly. But our camera solves that problem by mounting the 3.1 Mega pixel Progressive Scan CCD. So it can make the high quality image for defining the number plate and the face.



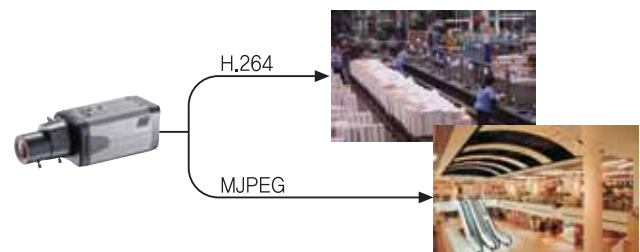
Conventional camera



Progressive Scan CCD camera

Real-Time Dual Streaming

H.264 and MJPEG images can be provided to the multi-client simultaneously. It delivers both a real time live monitoring and an image saving to storage at the same time.



OS

-Linux

Protocol

- HTTP, FPT, TCP/IP,DHCP, ARP, DNS, ICMP, RTSP, CGI

IP Support

- Static and Dynamic/DDNS

Bit Rate

- 64Kbps~6000Kbps

Multi Connection

- 10 Users

Software Support

Visionite CMS Software

3rd Party Support

- Exacq Vision (RTSP)
- GeoVision (RTSP)
- Nuuo (ONVIF)
- Milestone (RTSP)
- Ossi
- Avermedia (RTSP)

Smart Phone Support

IPhone

- IP Cam Viewer

Android

- IP Cam Viewer

VCN-V630DM-IR

- 3.1 Megapixel Ultra resolution Image (2048 X 1536)
- 1/2.8" Sony 3.14Mega Progressive Scan Sensor
- High Quality of compression algorithm(H.264/MPEG4/MJPEG)
- Max. 5-20FPS @ Any Resolution
- Web server built-in
- ONVIF Ver 2.0 support
- 3rd party CMS & smart phone support
- Multi connection : 10 users
- D-WDR(Wide Dynamic Range compensation)
- 2D-Digital Noise Reducer(DNR)
- Motion detection, Privacy mask, 6x Sens-up, Digital Zoom

VCN-V640DM-IR

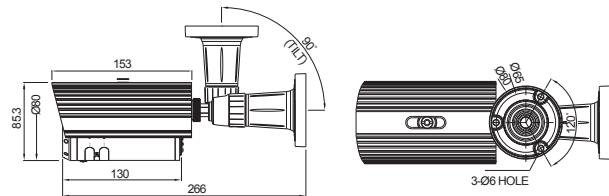
- 1.3 Megapixel Super resolution Image (1280 X 1024)
- 1/3" Sony 1.3Mega Progressive Scan sensor
- High Quality of compression algorithm(H.264/MPEG4/MJPEG)
- Max. 30FPS @ Any Resolution
- Web server built-in
- ONVIF Ver 2.0 support
- 3rd party CMS & smart phone support
- Multi connection : 10 users
- D-WDR(Wide Dynamic Range compensation)
- 2D-Digital Noise Reducer(DNR)
- Motion detection, Privacy mask, 14x Sens-up, Digital Zoom



Features

- f=2.8~12mm DC IRIS Varifocal Lens (ICR)
- 44pcs IR LEDs, Max. 45m IR Distance
- External Zoom & Focus Adjustable
- Second Video Output
- 3 AXIS Gimbal bracket
- Fan & Heater available(option)
- Cable Concealed Bracket
- Weather-proof(IP65)
- Power : DC 12V / AC24V(Option) / PoE(option)

Dimensions (Unit :mm)



Specifications

Model	VCN-V630DM-IR	VCN-V640DM-IR
Camera	Image Device	Sony 3.14Mega Pixel Image Sensor
	Scanning System	Progressive Scan
	Total Pixels	2144(H) x1588(V) approx. 3.40 Mega Pixels
	Effective Pixels	2048(H) x1536(V) approx. 3.14 Mega Pixels
	Min. Illumination	1.5 Lux (sensing up : 0.4 Lux) / 0.0Lux (IR LED ON)
	Lens	Varifocal DC Auto Iris
Video	Day&Night System	True D&N in ICR (Mechanism Filter Mountable)
	Electronic Shutter	1/15~1/10,000 sec
	Algorithm	H.264 / MPEG4 / MJPEG
	Resolution	QXGA, UGA, HD 1080, SXGA, etc. (All 8 resolution mode selectable)
	Frame Rate	MAX 20fps (@2048x1536)
	Bit rate	64 ~ 12000 Kbps selectable
Audio	Digital Output	1.0 Vpp Composite (75Ω), Pitch 2.0mm connector
	Algorithm	G.711 μ-law
	Sample rate	8KHz
	Bit rate	64Kbps
	Input	Line-in (Single Mono) : 1EA
	Output	Line-out (Single Mono) : 1EA
Network	Network Interface	Ethernet 10/100 Base-T (RJ-45)
	Network Protocol	TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS
Function	Day&Night	Day(Color) / Night(BW) / Auto (IR Cut Filter)
	Motion Detection	Adjustable
	Privacy Masking	Adjustable
	IREL wavelength	850nm
	Infrared Luminary	44pcs IR LED
Sensor	IP Rating	IP65 (Weatherproof)
	Sensor input	1 Input
Environment	Alarm output	1 Output (Digital Out, Open Collector)
	Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)
	Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)
	Humidity	Less than 80%
	Power Consumption	DC12V(±10%), Max.630mA (at IRED ON), (PoE : Option)
	Dimension	Ø80 x 153mm
	Weight	Approx. 1400g (3.0lb)

VCN2-V630DM-IR

- 3.1 Megapixel Ultra resolution Image (2048 X 1536)
- 1/2.8" Sony 3.14Mega Progressive Scan Sensor
- High Quality of compression algorithm(H.264/MPEG4/MJPEG)
- Max. 5-20FPS @ Any Resolution
- Web server built-in
- ONVIF Ver 2.0 support
- 3rd party CMS & smart phone support
- Multi connection : 10 users
- D-WDR(Wide Dynamic Range compensation)
- 2D-Digital Noise Reducer(DNR)
- Motion detection, Privacy mask, 6x Sens-up, Digital Zoom

VCN2-V640DM-IR

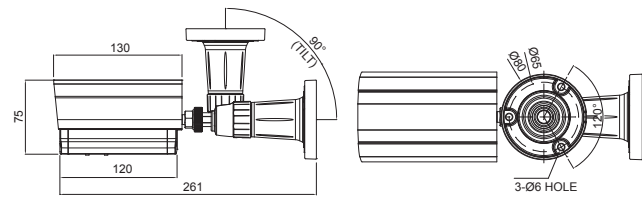
- 1.3 Megapixel Super resolution Image (1280 X 1024)
- 1/3" Sony 1.3Mega Progressive Scan sensor
- High Quality of compression algorithm(H.264/MPEG4/MJPEG)
- Max. 30FPS @ Any Resolution
- Web server built-in
- ONVIF Ver 2.0 support
- 3rd party CMS & smart phone support
- Multi connection : 10 users
- D-WDR(Wide Dynamic Range compensation)
- 2D-Digital Noise Reducer(DNR)
- Motion detection, Privacy mask, 14x Sens-up, Digital Zoom



Features

- f=2.8~12mm DC IRIS Varifocal Mega Lens (ICR)
- 36pcs IR LEDs, Max. 40m IR Distance
- External Zoom & Focus Adjustable
- Second Video Output
- 3 AXIS Gimbal bracket
- Fan & Heater available(option)
- Cable Concealed Bracket
- Water-proof(IP67)
- Power : DC 12V / AC24V(Option) / PoE(option)

Dimensions (Unit :mm)



Specifications

Model	VCN2-V630DM-IR	VCN2-V640DM-IR
Camera	Image Device	Sony 3.14Mega Pixel Image Sensor
	Scanning System	Progressive Scan
	Total Pixels	2144(H) x1588(V) approx. 3.40 Mega Pixels
	Effective Pixels	2048(H) x1536(V) approx. 3.14 Mega Pixels
	Min. Illumination	1.5 Lux (sense up : 0.4 Lux) / 0.0Lux (IR LED ON)
	Lens	f=2.8~12mm DC Auto IRIS Varifocal
	Day&Night System	True D&N in ICR (Mechanism Filter Mountable)
Video	Electronic Shutter	1/15~1/10,000 sec
	Algorithm	H.264 / MPEG4 / MJPEG
	Resolution	QXGA, UGA, HD 1080, SXGA, etc. (All 8 resolution mode selectable)
	Frame Rate	MAX 20fps (@2048x1536)
	Bit rate	64 ~ 12000 Kbps selectable
	Digital Output	1.0 Vpp Composite (75Ω), Pitch 2.0mm connector
	Algorithm	G.711 μ-law
Audio	Sample rate	8KHz
	Bit rate	64Kbps
	Input	Line-in (Single Mono) : 1EA
Network	Output	Line-out (Single Mono) : 1EA
	Network Interface	Ethernet 10/100 Base-T (RJ-45)
	Network Protocol	TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS
Function	Day&Night	Day(Color) / Night(BW) / Auto (IR Cut Filter)
	Motion Detection	Adjustable
	Privacy Masking	Adjustable
	IRET wavelength	850nm
	Infrared Luminary	36pcs IR LED
	IP Rating	IP67 (Waterproof)
Sensor	Sensor input	1 Input
	Alarm output	1 Output (Digital Out, Open Collector)
Environment	Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)
	Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)
	Humidity	Less than 80%
	Power Consumption	DC12V(±10%), Max.630mA (at IRED ON), (PoE : Option)
	Dimension	Ø70 x 150mm
	Weight	Approx. 1000g(2.2lb)

VCV6-V630DM-IR

- 3.1 Megapixel Ultra resolution Image (2048 X 1536)
- 1/2.8" Sony 3.14Mega Progressive Scan Sensor
- High Quality of compression algorithm(H.264/MPEG4/MJPEG)
- Max. 5-20FPS @ Any Resolution
- Web server built-in
- ONVIF Ver 2.0 support
- 3rd party CMS & smart phone support
- Multi connection : 10 users
- D-WDR(Wide Dynamic Range compensation)
- 2D-Digital Noise Reducer(DNR)
- Motion detection, Privacy mask, 6x Sense-up, Digital Zoom

VCV6-V640DM-IR

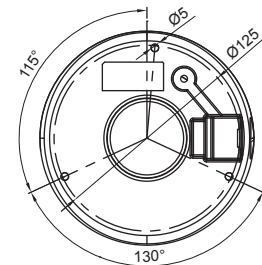
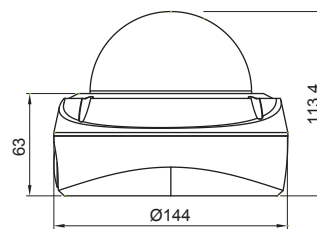
- 1.3 Megapixel Super resolution Image (1280 X 1024)
- 1/3" Sony 1.3Mega Progressive Scan sensor
- High Quality of compression algorithm(H.264/MPEG4/MJPEG)
- Max. 30FPS @ Any Resolution
- Web server built-in
- ONVIF Ver 2.0 support
- 3rd party CMS & smart phone support
- Multi connection : 10 users
- D-WDR(Wide Dynamic Range compensation)
- 2D-Digital Noise Reducer(DNR)
- Motion detection, Privacy mask, 14x Sense-up, Digital Zoom



Features

- f=2.8~12mm DC IRIS Varifocal Mega Lens (ICR)
- 30pcs IR LEDs, Max. 35m IR Distance
- Second Video Output
- 3 AXIS Gimbal bracket
- Fan & Heater available(option)
- Vandal & Water-proof(IP67)
- Power : DC 12V / AC24V(option) / PoE(option)

Dimensions (Unit:mm)



Specifications

Model	VCV6-V630DM-IR	VCV6-V640DM-IR	
Camera	Image Device	Sony 3.14Mega Pixel Image Sensor	Sony 1.3Mega Pixel Image Sensor
	Scanning System	Progressive Scan	Progressive Scan
	Total Pixels	2144(H) x1588(V) approx. 3.40 Mega Pixels	1384(H) x1076(V), 1.49 Mega Pixels
	Effective Pixels	2048(H) x1536(V) approx. 3.14 Mega Pixels	1329(H) x1049(V), 1.399 Mega Pixels
	Min. Illumination	1.5 Lux (Sense up : 0.4 Lux) / 0.0Lux (IR LED ON)	0.5 Lux (Sense up : 0.0004 Lux) / 0.0Lux (IR LED ON)
	Lens	f=2.8~12mm DC Auto IRIS Varifocal	f=2.8~12mm DC Auto IRIS Varifocal
	Day&Night System	True D&N in ICR (Mechanism Filter Mountable)	True D&N in ICR (Mechanism Filter Mountable)
Video	Electronic Shutter	1/15~1/10,000 sec	1/15~1/10,000 sec
	Algorithm	H.264 / MPEG4 / MJPEG	H.264 / MPEG4 / MJPEG
	Resolution	QXGA, UGA, HD 1080, SXGA, etc. (All 8 resolution mode selectable)	1280x1024 / 1280x960 / 1280x720 / 1024 x 768 / 640x480 / 320x240
	Frame Rate	MAX 20fps (@2048x1536)	30fps (@1280x1024)
	Bit rate	64 ~ 12000 Kbps selectable	64 ~ 6000 Kbps selectable
	Digital Output	1.0 Vpp Composite (75Ω), Pitch 2.0mm connector	1.0 Vpp Composite (75Ω), Pitch 2.0mm connector
	Audio	Algorithm	G.711 μ-law
Sample rate		8KHz	8KHz
Bit rate		64Kbps	64Kbps
Input		Line-in (Single Mono) : 1EA	Line-in (Single Mono) : 1EA
Network	Output	Line-out (Single Mono) : 1EA	Line-out (Single Mono) : 1EA
	Network Interface	Ethernet 10/100 Base-T (RJ-45)	Ethernet 10/100 Base-T (RJ-45)
	Network Protocol	TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS	TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS
Function	Day&Night	Day(Color) / Night(BW) / Auto (IR Cut Filter)	Day(Color) / Night(BW) / Auto (IR Cut Filter)
	Motion Detection	Adjustable	Adjustable
	Privacy Masking	Adjustable	Adjustable
	IREL wavelength	850nm	850nm
	Infrared Luminary	30pcs IR LED	30pcs IR LED
Sensor	IP Rating	IP67 (Waterproof)	IP67 (Waterproof)
	Sensor input	1 Input	1 Input
Environment	Alarm output	1 Output (Digital Out, Open Collector)	1 Output (Digital Out, Open Collector)
	Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)
	Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)
	Humidity	Less than 80%	Less than 80%
	Power Consumption	DC12V(±10%), Max.380mA (at IRED ON), (PoE : Option)	DC12V(±10%), Max.380mA (at IRED ON), (PoE : Option)
	Dimension	Ø144 x 113.4mm	Ø144 x 113.4mm
	Weight	Approx. 860g(1.9lb)	Approx. 860g(1.9lb)

VCD6-V630DM-IR

- 3.1 Megapixel Ultra resolution Image (2048 X 1536)
- 1/2.8" Sony 3.14Mega Progressive Scan Sensor
- High Quality of compression algorithm(H.264/MPEG4/MJPEG)
- Max. 5-20FPS @ Any Resolution
- Web server built-in
- ONVIF Ver 2.0 support
- 3rd party CMS & smart phone support
- Multi connection : 10 users
- D-WDR(Wide Dynamic Range compensation)
- 2D-Digital Noise Reducer(DNR)
- Motion detection, Privacy mask, 6x Sense-up, Digital Zoom

VCD6-V640DM-IR

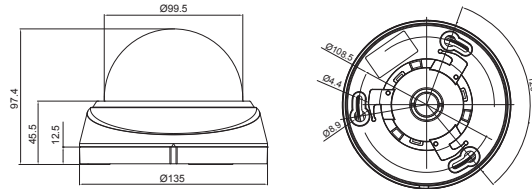
- 1.3 Megapixel Super resolution Image (1280 X 1024)
- 1/3" Sony 1.3Mega Progressive Scan Sensor
- High Quality of compression algorithm(H.264/MPEG4/MJPEG)
- Max. 30FPS @ Any Resolution
- Web server built-in
- ONVIF Ver 2.0 support
- 3rd party CMS & smart phone support
- Multi connection : 10 users
- D-WDR(Wide Dynamic Range compensation)
- 2D-Digital Noise Reducer(DNR)
- Motion detection, Privacy mask, 14x Sense-up, Digital Zoom



Features

- f=2.8~12mm DC IRIS Varifocal Mega Lens (ICR)
- 30pcs IR LEDs, Max. 35m IR Distance
- Second Video Output
- 3 AXIS Gimbal bracket
- Power : DC 12V / AC24V(Optional) / PoE(option)

Dimensions (Unit :mm)

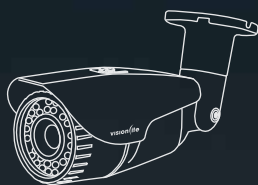


Specifications

Model	VCD6-V630DM-IR	VCD6-V640DM-IR
Camera	Image Device	Sony 3.14Mega Pixel Image Sensor
	Scanning System	Progressive Scan
	Total Pixels	2144(H) x1588(V) approx. 3.40 Mega Pixels
	Effective Pixels	2048(H) x1536(V) approx. 3.14 Mega Pixels
	Min. Illumination	1.5 Lux (Sense up : 0.4 Lux) / 0.0Lux (IR LED ON)
	Lens	f=2.8~12mm DC Auto IRIS Varifocal
	Day&Night System	True D&N in ICR (Mechanism Filter Mountable)
Video	Electronic Shutter	1/15~1/10,000 sec
	Algorithm	H.264 / MPEG4 / MJPEG
	Resolution	QXGA, UGA, HD 1080, SXGA, etc. (All 8 resolution mode selectable)
	Frame Rate	MAX 20fps (@2048x1536)
	Bit rate	64 ~ 12000 Kbps selectable
	Digital Output	1.0 Vpp Composite (75Ω), Pitch 2.0mm connector
	Audio	Algorithm
Sample rate		8KHz
Bit rate		64Kbps
Input		Line-in (Single Mono) : 1EA
Network	Output	Line-out (Single Mono) : 1EA
	Network Interface	Ethernet 10/100 Base-T (RJ-45)
	Network Protocol	TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS
Function	Day&Night	Day(Color) / Night(BW) / Auto (IR Cut Filter)
	Motion Detection	Adjustable
	Privacy Masking	Adjustable
	IRET wavelength	850nm
Sensor	Infrared Luminary	30pcs IR LED
	Sensor input	1 Input
	Alarm output	1 Output (Digital Out, Open Collector)
Environment	Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)
	Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)
	Humidity	Less than 80%
	Power Consumption	DC12V(±10%), Max.380mA (at IRED ON), (PoE : Option)
	Dimension	Ø135 x 97.4mm
	Weight	Approx. 360g(0.8lb)



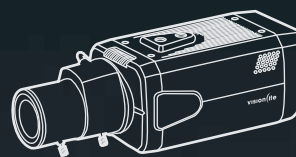
STANDARD PRODUCTS



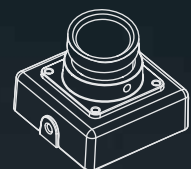
BULLET



DOME



BOX



MINIATURE

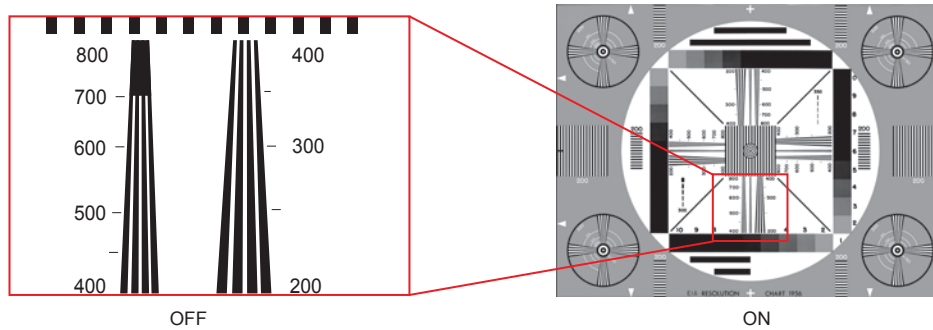
Supreme WDR performance of Sony Effio-P

Visionite's super supreme resolution cameras enable to provide obvious pictures with higher sensitivity compared to conventional CCTV cameras.

"Effio" means that "Enhanced Features and Fine Image Processor", and it is a Sony signal processor which realizes high resolution, High S/N ratio and high color reproduction for security camera.

Supreme Resolution of 700TV-Line

Sony 1/3" 960H Super HAD II Double scan Color CCD chipset provides the high horizontal resolution up to 700TV-Line for color with extremely clear and vivid image quality.



WDR(Wide Dynamic Range)

The wide dynamic range (WDR) function of a camera is intended to provide clear images even under back light circumstances where intensity of illumination can vary excessively, namely when there are both very bright and very dark areas simultaneously in the field of view of the camera. WDR enables the capture and display of both bright and dark areas in the same frame, in a way that there are details in both areas, bright areas are not saturated, and dark areas are not too dark.

The WDR function is present by only in the Effio-P™ System.

The Effio-P™ System that Compared with Sony™s existing Effio™ System, features improved algorithms, reduces unnaturalness resulting from combination, and corrects the drop in contrast due to gradation compression.



WDR OFF



WDR ON

3D-DNR(Digital Noise Reduction)

The 3D filtering digital noise reduction is the new generation of DNR technology. It is much more effective at removing picture noise caused by objects in motion under the low light condition.

User can expect clear and vivid image at night time and up to 70% less digital bandwidth and storage space.



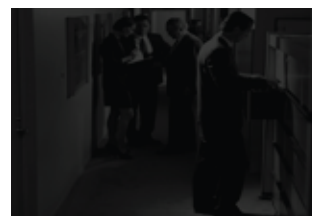
DNR OFF



DNR ON

Sense-up(DSS-Digital slow shutter)

Sense up provides a high quality picture in darkness environment and can be watched by color mode.



OFF

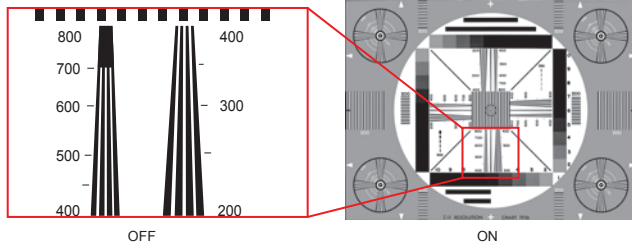


ON

A variety of functions, Nextchip Refia-D (HAWK II)

Supreme Resolution of 700TV-Line

Sony 1/3" 960H EXview HAD II Color CCD chipset provides the high horizontal resolution up to 700TV-Line for color with extremely clear and vivid excellent image quality.



3D-DNR(Digital Noise Reduction)

The 3D filtering digital noise reduction is the new generation of DNR technology. It is much more effective at removing picture noise caused by objects in motion under the low light condition.

User can expect clear and vivid image at night time and up to 70% less digital bandwidth and storage space.



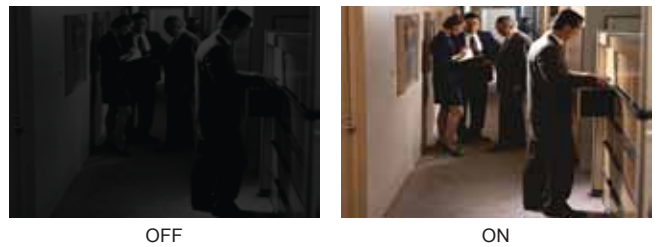
F-DNR(Fog Digital Noise Reduction)

F-DNR technology provides improved visibility in fog, smoke and dust conditions.



Sense-up(DSS-Digital slow shutter)

Sense up provides a high quality picture in darkness environment and can be watched by color mode.



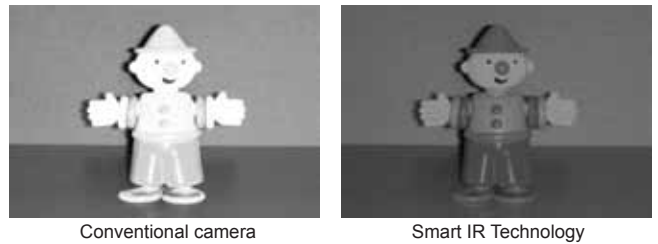
D-WDR(Wide Dynamic Range)

It provides no limitation of zone area with the D-WDR function and the image is clearer than when using traditional BLC function. It combines bright area with high shutter speed exposure and dark area with low shutter speed exposure into one composite image in order to get details from dark and bright combination image without any saturation.



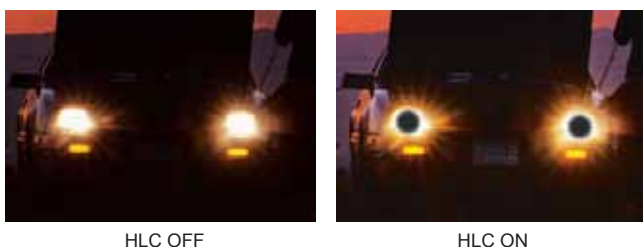
Smart IR

The conventional IR camera generally has the problem of IR light saturation during distinguishing closer object. But, the Smart IR Technology automatically controls the IR sensitivity according to the distance of object and provide sharp and vivid pictures without saturation.



HLC(High Light Compensation)

The camera is equipped with HLC(High Light Compensation) which blocks strong partial back light. Removing the high light makes it possible to view a number plate efficiently.



Motion Detection

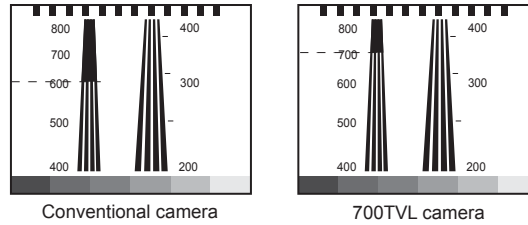
When user is simultaneously monitoring at the same time, the camera detects movement motion of any objects on the screen and transmits alert signal into the external alarm to have user's attention on the screen.



Provide a supreme resolution, Sony Effio-E

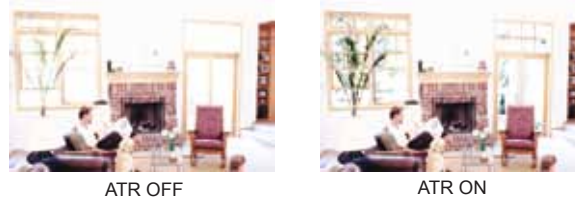
Supreme resolution of 700TV-Line / Effio-E

Combination of Effio-E and 960H CCD chipset provide the high horizontal resolution up to 700TV Lines for color with extremely clear and vivid excellent image quality.



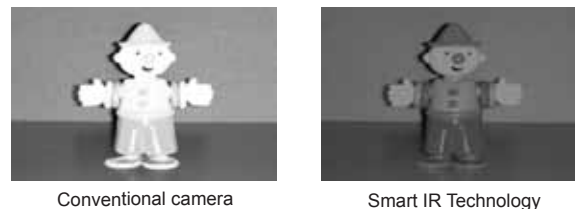
ATR (Adaptive Tone-Curve Reproduction)

It provides no limitation of zone area with the ATR function and the image is clearer than when using traditional BLC function. It combines bright area with high shutter speed exposure and dark area with low shutter speed exposure into one composite image in order to get details from dark and bright combination image without any saturation.



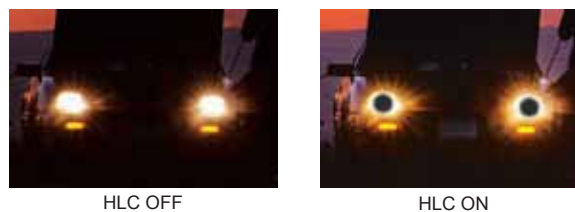
Smart IR Technology

The conventional IR camera generally has the problem of IR light saturation during distinguishing closer object. But, the Smart IR Technology automatically controls the IR sensitivity according to the distance of object and provide sharp and vivid pictures without saturation.



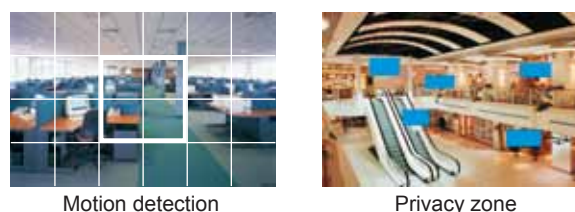
HLC(High Light Compensation)

The camera is equipped with HLC(High Light Compensation) which blocks strong partial back light. Removing the high light makes it possible to view a number plate efficiently.



Motion detection and Privacy zone function

When user is simultaneously monitoring at the same time, the camera detects movement motion of any objects on the screen and transmits alert signal into the external alarm to have user's attention on the screen. And it also supports the privacy zone setting.



Economic advantage with H-Bird and EOS802

High Resolution of 600TV Lines

The Sony Super HAD CCD II and the newly designed digital signal processing chipset provide the high horizontal resolution up to 600TV Lines for color with extremely clear and vivid excellent image quality.



Conventional camera



600TV Lines

Smart IR

The conventional IR camera generally has the problem of IR light saturation during distinguishing closer object. But, the Smart IR Technology automatically controls the IR sensitivity according to the distance of object and provide sharp and vivid pictures without saturation.



Conventional camera



Smart IR Technology

D-WDR(Nextchip H-Bird)

It provides no limitation of zone area with the D-WDR function and the image is clearer than when using traditional BLC function. It combines bright area with high shutter speed exposure and dark area with low shutter speed exposure into one composite image in order to get details from dark and bright combination image without any saturation.



D-WDR OFF



D-WDR ON

Real WDR (H-tech EOS 802)

It provides no limitation of zone area with the WDR function and the image is more clear than when using traditional BLC function. It combines bright area with high shutter speed exposure and dark area with low shutter speed exposure into one composite image in order to get details from dark and bright combination image without any saturation.



WDR OFF



WDR ON

HLM(High Light Mask)

The camera is equipped with HLM(High Light MASK) which blocks strong partial back light. Removing the high light makes it possible to view a number plate efficiently.



HLM OFF

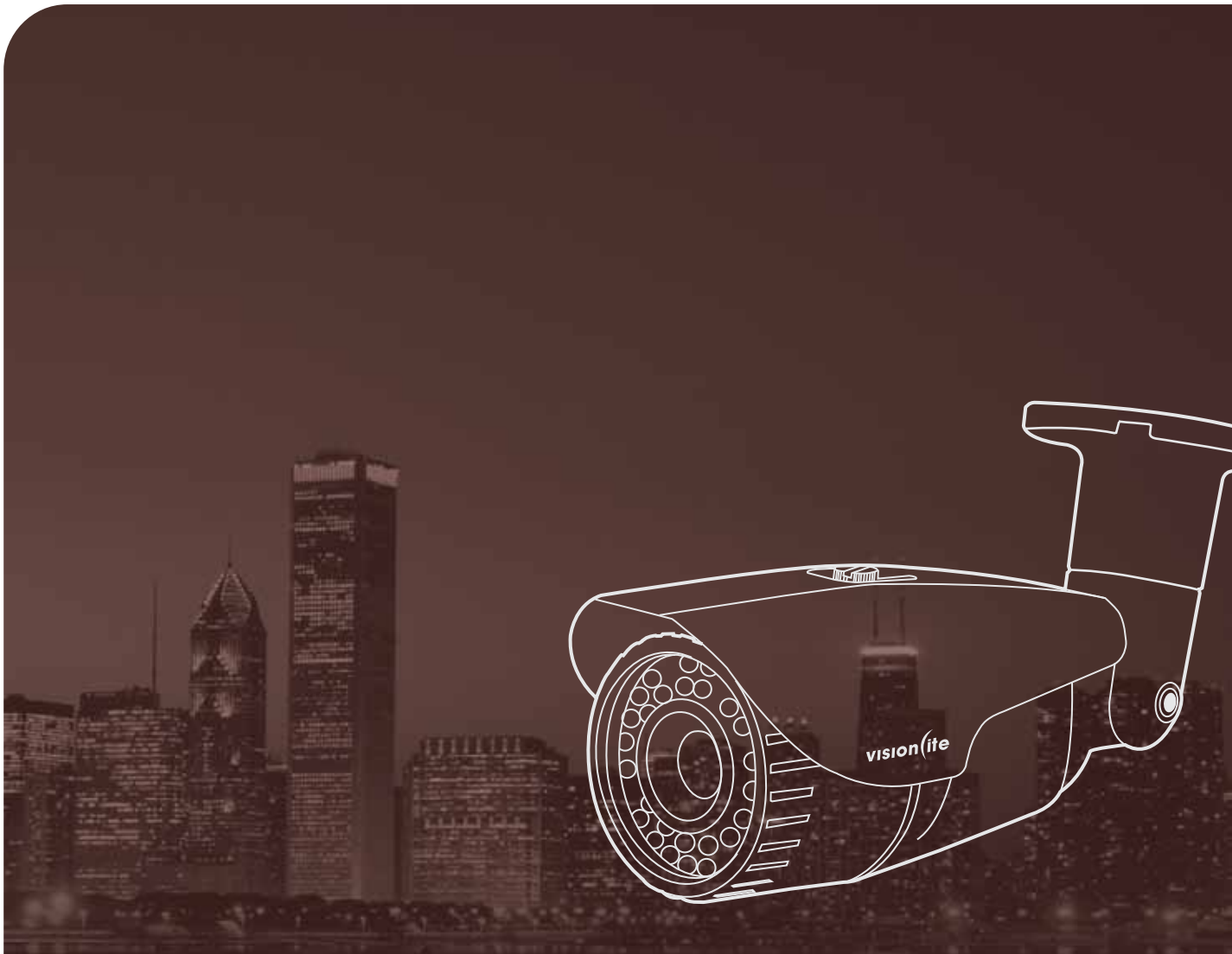


HLM ON

Motion Detection

When user is simultaneously monitoring at the same time, the camera detects movement motion of any objects on the screen and transmits alert signal into the external alarm to have user's attention on the screen.





BULLET CAMERA

VCNP-V510H-IR *Winner5(Samsung)*

Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 3D-DNR, X512 Sense-up, D-WDR, Smart IR,
Motion detection, 8 Privacy zone

VCNP-V210H-IR *H-Bird(Nextchip)*

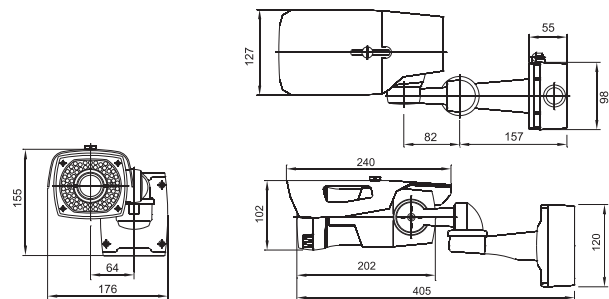
Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, D-WDR, Smart IR, Motion detection, 8 Privacy zone



Features

- f=3.5~16mm DC IRIS Varifocal Lens (ICR)
- 70 pcs IR LEDs, Max. 70M IR Distance
- External Zoom & Focus Adjustable
- Second Video Connector
- 3 AXIS Gimbal bracket
- Fan & Heater available(option)
- Cable Concealed Bracket
- Water-proof(IP68)
- Power : DC 12V / AC24V(Option)
- Options: lens f=2.8~12mm / 5~50mm

Dimensions (Unit :mm)



Specifications

Model	VCNP-V510H-IR	VCNP-V210H-IR
Total pixels	NTSC : 811(H) x 508(V) 410K pixels PAL : 795(H) x 595(V) 470K pixels	NTSC : 811(H) x 508(V) 410K pixels PAL : 795(H) x 595(V) 470K pixels
Effective pixels	NTSC : 768(H) x 494(V) 380K pixels PAL : 752(H) x 582(V) 440K pixels	NTSC : 768(H) x 494(V) 380K pixels PAL : 752(H) x 582(V) 440K pixels
Frequency	NTSC : 15.734 [KHz] (H) / 59.94 [Hz] (V) PAL : 15.625 [KHz] (H) / 50 [Hz] (V)	NTSC : 15.734 [KHz] (H) / 59.94 [Hz] (V) PAL : 15.625 [KHz] (H) / 50 [Hz] (V)
ESC	NTSC : Auto / Manual (1/60 ~ 120,000 sec) PAL: Auto / Manual (1/50 ~ 120,000 sec)	NTSC : Auto / Manual (1/60 ~ 120,000 sec) PAL: Auto / Manual (1/50 ~ 120,000 sec)
DSP	Winner 5 (Samsung)	Humming bird (NEXT CHIP NVP2040)
Sensor	1/3" SONY Super HAD CCD II	1/3" SONY Super HAD CCD II
Resolution	600 TV lines (color) , 700 TV lines (BW)	600 TV lines (color) , 700 TV lines (BW)
Scanning system	2:1 Interlace	2:1 Interlace
Sync System	Internal	Internal
S/N Ratio (Y signal)	More than 52 dB (AGC Off)	More than 52 dB (AGC Off)
Video output	CVBS: 1.0Vp-p / 75Ω composite	CVBS: 1.0Vp-p / 75Ω composite
Min.Illumination	0.1Lux at F1.2 (color) / 0.0001Lux (BW for sens-up x512) / 0Lux (IR on)	0.2Lux at F1.2 (color) / 0.1Lux (BW) / 0Lux (IR on)
White balance	ATW / Outdoor / Indoor / Manual / AWC (1,700°K ~ 11,000°K)	ATW / Outdoor / Indoor / Manual / AWC (1,700°K ~ 11,000°K)
BLC	BLC / HLC / Off selectable	BLC / HLC / Off selectable
Gain control	Low / High / Off selectable	Low / High / Off selectable
DPC	-	Dead Pixel Compensation
Sens-up	On / Off (x2 ~ x512)	-
DNR	On / Off (2D+3D)	On / Off (2D)
Day & night	Color / Auto / BW / EXT	Color / Auto / BW / EXT
Privacy	On / Off (Programmable 12 zones)	On / Off (Programmable 8 zones)
Motion detection	On / Off (Programmable 8 zones)	On / Off (Programmable 4 zones)
Digital zoom	On / Off (x1 ~ x16)	-
DIS	On / Off	-
SMART IR	-	On / Off
PARKING LINE	-	On / Off
Operating temp./hum.	10℃~+50℃ (Fan / Heater type (Option) -40℃~+70℃) / 30%~80% RH	10℃~+50℃ (Fan / Heater type (Option) -40℃~+70℃) / 30%~80% RH
Storage temp./hum.	-20℃~+60℃ / 20%~90% RH	-20℃~+60℃ / 20%~90% RH
Power	DC type (DC12V ±10%) / Dual type (DC:10V~30V, AC:10V~28V) (Option)	DC type (DC12V ±10%) / Dual type (DC:10V~30V, AC:10V~28V) (Option)
Power consumption	DC type (Max. 7.5W) / Dual type (DC:Max. 10W, AC:Max. 12W)	DC type (Max. 7.5W) / Dual type (DC:Max. 10W, AC:Max. 12W)
IR LED	Round 70pcs (30deg)	Round 70pcs (30deg)
Lens	TDN ICR DC auto iris lens 3.5~16mm	TDN ICR DC auto iris lens 3.5~16mm
Dimension	127(W) X 102(H) X 240(L) mm	127(W) X 102(H) X 240(L) mm
Weight	Approx. 2400g (5.3lb)	Approx. 2400g (5.3lb)

VCN-V750W-IR *Effio-P(Sony)*

Sony 1/3" 960H Super HAD II Supreme resolution Double Scan Color CCD
700TVL, 3D-DNR, WDR, 512X Sense-up, D-Zoom

VCN-V740H-IR *Refia-D(Nextchip)*

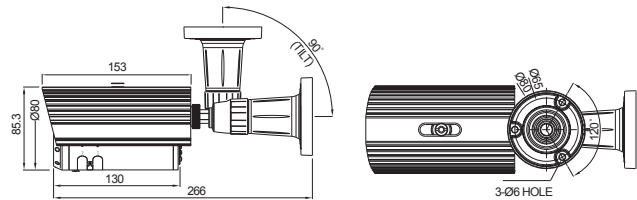
Sony 1/3" 960H Exview HAD II Supream resolution Color CCD
700TVL, 3D-DNR, F-DNR, D-WDR, 256X Sense-up, D-Zoom



Features

- f=3.5~16mm DC IRIS Varifocal Lens (ICR)
- 44pcs IR LEDs, Max. 50m IR Distance
- External Zoom & Focus Adjustable
- Second Video Connector
- 3 AXIS Gimbal bracket
- Fan & Heater available(option)
- Cable Concealed Bracket
- Weather-proof(IP65)
- Power : DC 12V / AC24V(Optional)
- Options: lens f=9~22mm, Silver

Dimensions (Unit :mm)



Specifications

Model	VCN-V750W-IR	VCN-V740H-IR
Image Device	1/3" 960H Sony Super HAD CCD II (Double scan)	1/3" 960H SONY EXview HAD CCD II
Scanning System	2:1 Interlace	2:1 Interlace
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)
H. Resolution	700TV Lines	700TV Lines
Total Pixels	NTSC : 1028(H) x 508(V), PAL : 1028(H) x 596(V)	NTSC : 1028(H) x 508(V), PAL : 1028(H) x 596(V)
Effective Pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)
S/N Ratio	More than 50dB (AGC OFF)	More than 50dB (AGC OFF)
Min. Illumination	0.0 Lux (at IRED ON)	0.0 Lux (at IRED ON)
Sync System	Internal	Internal
Video Output	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)
Lens	Varifocal DC auto iris	Varifocal DC auto iris
Day&Night System	True D&N in ICR (Mechanism Filter Mountable)	True D&N in ICR (Mechanism Filter Mountable)
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec
OSD Function	LENS	Manual/ DC
	EXPOSURE	AGC, BRIGHTNESS, Digital Slow Shutter
	WHITE BALANCE	ATW, ONE PUSH, INDOOR, OUTDOOR, MANUAL, AUTO
	BACKLIGHT	HLC, BLC
	WDR	OFF, ON [Normal, Light, Full (Low, Midlow, Mid, Midhigh, High)]
	DNR	Low, Midlow, Mid, Midhigh, High
	DAY & NIGHT	AUTO(SMART IR), COLOR
	MOTION DETECTION	OFF, ON (3 AREAS)
	PRIVACY	OFF, ON (16 AREAS)
	CAMERA ID	0~9, A~Z, Special Character
LANGUAGE	English, Chinese, Korean	English, Korean, Japanese, Chinese, Russian, French, Spanish, Italian, Portuguese, Dutch, German, Polish, Turkish, Hebrew, Arabic
IR LED wavelength	850nm	850nm
Infrared Luminary	44pcs IR LED	44pcs IR LED
IP Rating	IP65 (Weatherproof)	IP65 (Weatherproof)
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)
Humidity	Less than 80%	Less than 80%
Power Consumption	DC12V, Max. 140mA [IRED ON: (max. 560mA)]	DC12V, Max. 170mA [IRED ON : IR(max.580mA)]
Dimension	Ø80 x 153mm	Ø80 x 153mm
Weight	Approx. 1400g (3.0lb)	Approx. 1400g (3.0lb)

VCN-V720H-IR *Effio-E(Sony)*

Sony 1/3" 960H EXview HAD II Supreme resolution Color CCD
700TVL, 2D-DNR, ATR, Smart IR, Motion detection, 4 Privacy zone

VCN-V710H-IR *H-Bird(Nextchip)*

Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, D-WDR, Smart IR, Motion detection, 8 Privacy zone

VCN-V730W-IR *EOS802-W76(H-Tech)*

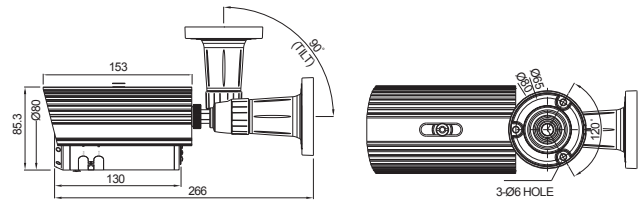
Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, Real WDR, Smart IR, Motion detection, 8 Privacy zone



Features

- f=3.5~16mm DC IRIS Varifocal Lens (ICR)
- 44pcs IR LEDs, Max. 50m IR Distance
- External Zoom & Focus Adjustable
- Second Video Connector
- 3 AXIS Gimbal bracket
- Fan & Heater available(option)
- Cable Concealed Bracket
- Weather-proof(IP65)
- Power : DC 12V / AC24V(Option)
- Options: lens f=9~22mm, Silver

Dimensions (Unit :mm)



Specifications

Model	VCN-V720H-IR	VCN-V710H-IR	VCN-V730W-IR	
Image Device	1/3" SONY EXview HAD CCD II	1/3" SONY Super HAD CCD II	1/3" SONY Super HAD CCD II	
Scanning System	2:1 Interlace	2:1 Interlace	2:1 Interlace	
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)	
H. Resolution	700TV Lines	600TV Lines	600TV Lines	
Total Pixels	NTSC : 1020(H) x 508(V), PAL : 1020(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)	
Effective Pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)	
S/N Ratio	More than 50dB (AGC OFF)	More than 48dB (AGC OFF)	More than 48dB (AGC OFF)	
Min. Illumination	0.0 Lux (at IRED ON)	0.0 Lux (at IRED ON)	0.0 Lux (at IRED ON)	
Sync System	Internal	Internal	Internal	
Video Output	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)	
Lens	Varifocal DC auto iris	Varifocal DC auto iris	Varifocal DC auto iris	
Day&Night System	True D&N in ICR (Mechanism Filter Mountable)	True D&N in ICR (Mechanism Filter Mountable)	True D&N in ICR (Mechanism Filter Mountable)	
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	
OSD Function	LENS	Manual/ DC	DC / Video / Manual	ELC/ DC
	EXPOSURE	SHUTTER, AGC	Shutter / Brightness / AGC / DWDR	SHUTTER/ BRIGHTNESS/ AGC/ 2D DNR
	WHITE BALANCE	ATW, PUSH, USER1, USER2, ANTI CR, MANUAL, PUSH LOCK	ATW1 / ATW2 / AWC-SET / MANUAL	ATW/ MANUAL/ AWC>PUSH/ AWC
	BACKLIGHT	OFF, BLC, HLC	OFF / BLC / HLC	WDR/ BLC/ HLI(High Light Inversion)/D-WDR
	DWDR	OFF, ON (Level adjustable)	OFF, ON (Level adjustable)	WDR OFF, ON(Level adjustable)/ D-WDR OFF, ON(Level adjustable)
	DNR	OFF, ON (Level adjustable)	OFF, ON	OFF/LOW/MID/HIGH
	DAY & NIGHT	Auto / Color / BW(SMART IR) / EXT	Auto / Color / BW(SMART IR) / EXT	AUTO/ COLOR/ BW/ EX-CDS(SMART IR)
	MOTION DETECTION	OFF, ON (4 AREAS)	OFF, ON (4 AREAS)	OFF, ON (4 AREAS)
	PRIVACY	OFF, ON (4 AREAS)	OFF, ON (8 AREAS)	OFF, ON (8 AREAS)
	CAMERA ID	OFF, ON (0~9, A~Z, Special Character)	OFF, ON (0~9, A~Z, Special Character)	OFF, ON (0~9, A~Z, Special Character)
LANGUAGE	English, Japanese, German, French, Russian, Portuguese, Spanish, Chinese	English, Chinese	English, Chinese, Korean, Japanese, Italian, Russian, Portuguese, Spanish, German, French	
IR LED wavelength	850nm	850nm	850nm	
Infrared Luminary	44pcs IR LED	44pcs IR LED	44pcs IR LED	
IP Rating	IP65 (Weatherproof)	IP65 (Weatherproof)	IP65 (Weatherproof)	
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)	
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)	
Humidity	Less than 80%	Less than 80%	Less than 80%	
Power Consumption	DC12V, Max. 140mA [IRED ON: (max. 560mA)]	DC12V, Max. 170mA [IRED ON : IR(max.580mA)]	DC12V, Max. 170mA [IRED ON : IR(max.580mA)]	
Dimension	Ø80 x 153mm	Ø80 x 153mm	Ø80 x 153mm	
Weight	Approx. 1400g (3.0lb)	Approx. 1400g (3.0lb)	Approx. 1400g (3.0lb)	

VCN2-V750W-IR *Effio-P(Sony)*

Sony 1/3" 960H Super HAD II Supreme resolution Double Scan Color CCD
700TVL, 3D-DNR, WDR, 512X Sense-up, D-Zoom

VCN2-V740H-IR *Refia-D(Nextchip)*

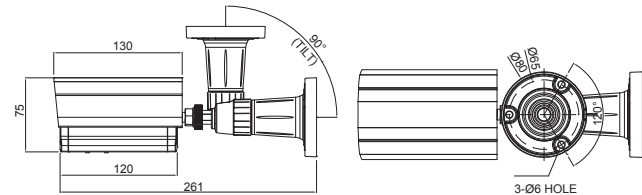
Sony 1/3" 960H Exview HAD II Supreme resolution Color CCD
700TVL, 3D-DNR, F-DNR, D-WDR, 256X Sense-up, D-Zoom



Features

- f=2.8~12mm DC IRIS Varifocal Lens (ICR)
- 36pcs IR LEDs, Max. 40m IR Distance
- External Zoom & Focus Adjustable
- Second Video Connector
- 3 AXIS Gimbal bracket
- Fan & Heater available(option)
- Cable Concealed Bracket
- Water-proof(IP67)
- Power : DC 12V / AC24V(Option)
- Options: lens f=5~50mm

Dimensions (Unit :mm)



Specifications

Model	VCN2-V750W-IR	VCN2-V740H-IR
Image Device	1/3" 960H Sony Super HAD CCD II (Double scan)	1/3" 960H SONY EXview HAD CCD II
Scanning System	2:1 Interlace	2:1 Interlace
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)
H. Resolution	700TV Lines	700TV Lines
Total Pixels	NTSC : 1028(H) x 508(V), PAL : 1028(H) x 596(V)	NTSC : 1020(H) x 508(V), PAL : 1020(H) x 596(V)
Effective Pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)
S/N Ratio	More than 50dB (AGC OFF)	More than 50dB (AGC OFF)
Min. Illumination	0.0 Lux (at IRED ON)	0.0 Lux (at IRED ON)
Sync System	Internal	Internal
Video Output	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)
Lens	Varifocal DC auto iris	Varifocal DC auto iris
Day&Night System	True D&N in ICR (Mechanism Filter Mountable)	True D&N in ICR (Mechanism Filter Mountable)
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec
OSD Function	LENS	Manual/ DC
	EXPOSURE	AGC, BRIGHTNESS, Digital Slow Shutter
	WHITE BALANCE	ATW, ONE PUSH, INDOOR, OUTDOOR, MANUAL, AUTO
	BACKLIGHT	HLC, BLC
	WDR	OFF, ON [Normal, Light, Full (Low, Midlow, Mid, Midhigh, High)]
	DNR	Low, Midlow, Mid, Midhigh, High
	DAY & NIGHT	AUTO(SMART IR), COLOR
	MOTION DETECTION	OFF, ON (3 AREAS)
	PRIVACY	OFF, ON (16 AREAS)
	CAMERA ID	0~9, A~Z, Special Character
IR LED wavelength	850nm	850nm
Infrared Luminary	36pcs IR LED	36pcs IR LED
IP Rating	IP67 (Waterproof)	IP67 (Waterproof)
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)
Humidity	Less than 80%	Less than 80%
Power Consumption	DC12V, Max. 140mA [IRED ON: max. 440mA]	DC12V, Max. 170mA [IRED ON : max.470mA]
Dimension	Ø70 x 150mm	Ø70 x 150mm
Weight	Approx. 980g(2.2lb)	Approx. 980g(2.2lb)

VCN2-V720H-IR *Effio-E(Sony)*

Sony 1/3" 960H EXview HAD II Supreme resolution Color CCD
700TVL, 2D-DNR, ATR, Smart IR, Motion detection, 4 Privacy zone

VCN2-V710H-IR *H-Bird(Nextchip)*

Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, D-WDR, Smart IR, Motion detection, 8 Privacy zone

VCN2-V730W-IR *EOS802-W76(H-Tech)*

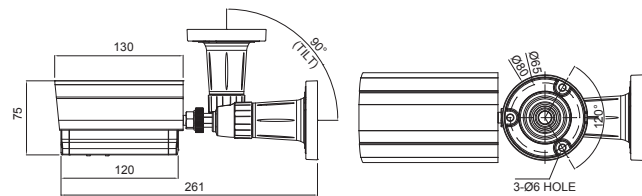
Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, Real WDR, Smart IR, Motion detection, 8 Privacy zone



Features

- f=2.8~12mm DC IRIS Varifocal Lens (ICR)
- 36pcs IR LEDs, Max. 40m IR Distance
- External Zoom & Focus Adjustable
- Second Video Connector
- 3 AXIS Gimbal bracket
- Fan & Heater available(option)
- Cable Concealed Bracket
- Water-proof(IP67)
- Power : DC 12V / AC24V(Option)
- Options : lens f=5~50mm

Dimensions (Unit :mm)



Specifications

Model	VCN2-V720H-IR	VCN2-V710H-IR	VCN2-V730W-IR	
Image Device	1/3" SONY EXview HAD CCD II	1/3" SONY Super HAD CCD II	1/3" SONY Super HAD CCD II	
Scanning System	2:1 Interlace	2:1 Interlace	2:1 Interlace	
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)	
H. Resolution	700TV Lines	600TV Lines	600TV Lines	
Total Pixels	NTSC : 1028(H) x 508(V), PAL : 1028(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)	
Effective Pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)	
S/N Ratio	More than 50dB (AGC OFF)	More than 48dB (AGC OFF)	More than 48dB (AGC OFF)	
Min. Illumination	0.0 Lux (at IRED ON)	0.0 Lux (at IRED ON)	0.0 Lux (at IRED ON)	
Sync System	Internal	Internal	Internal	
Video Output	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)	
Lens	Varifocal DC auto iris	Varifocal DC auto iris	Varifocal DC auto iris	
Day&Night System	True D&N in ICR (Mechanism Filter Mountable)	True D&N in ICR (Mechanism Filter Mountable)	True D&N in ICR (Mechanism Filter Mountable)	
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	
OSD Function	LENS	Manual/ DC	DC / Video / Manual	ELC/ DC
	EXPOSURE	SHUTTER, AGC	Shutter / Brightness / AGC / DWDR	SHUTTER/ BRIGHTNESS/ AGC/ 2D DNR
	WHITE BALANCE	ATW, PUSH, USER1, USER2, ANTI CR, MANUAL, PUSH LOCK	ATW1 / ATW2 / AWC-SET / MANUAL	ATW/ MANUAL/ AWC>PUSH/ AWC
	BACKLIGHT	OFF, BLC, HLC	OFF / BLC / HLC	WDR/ BLC/ HLI(High Light Inversion)/D-WDR
	DWDR	OFF, ON (Level adjustable)	OFF, ON (Level adjustable)	WDR OFF, ON(Level adjustable)/ D-WDR OFF, ON(Level adjustable)
	DNR	OFF, ON (Level adjustable)	OFF, ON	OFF/LOW/MID/HIGH
	DAY & NIGHT	Auto / Color / BW(SMART IR) / EXT	Auto / Color / BW(SMART IR) / EXT	AUTO/ COLOR/ BW/ EX-CDS(SMART IR)
	MOTION DETECTION	OFF, ON (4 AREAS)	OFF, ON (4 AREAS)	OFF, ON (4 AREAS)
	PRIVACY	OFF, ON (4 AREAS)	OFF, ON (8 AREAS)	OFF, ON (8 AREAS)
	CAMERA ID	OFF, ON (0~9, A~Z, Special Character)	OFF, ON (0~9, A~Z, Special Character)	OFF, ON (0~9, A~Z, Special Character)
LANGUAGE	English, Japanese, German, French, Russian, Portuguese, Spanish, Chinese	English, Chinese	English, Chinese, Korean, Japanese, Italian, Russian, Portuguese, Spanish, German, French	
IR LED wavelength	850nm	850nm	850nm	
Infrared Luminary	36pcs IR LED	36pcs IR LED	36pcs IR LED	
IP Rating	IP67 (Waterproof)	IP67 (Waterproof)	IP67 (Waterproof)	
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)	
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)	
Humidity	Less than 80%	Less than 80%	Less than 80%	
Power Consumption	DC12V: Max. 130mA [IRED ON : max.430mA]	DC12V: Max. 110mA [IRED ON : max.420mA]	DC12V: Max. 130mA [IRED ON : max.440mA]	
Dimension	Ø70 x 150mm	Ø70 x 150mm	Ø70 x 150mm	
Weight	Approx. 980g (2.2lb)	Approx. 980g (2.2lb)	Approx. 980g (2.2lb)	

VCL2-F720H-IR *Effio-E(Sony)*

Sony 1/3" 960H EXview HAD II Supreme resolution Color CCD
700TVL, 2D-DNR, ATR, Smart IR, Motion detection, 4 Privacy zone

VCL2-F710H-IR *H-Bird(Nextchip)*

Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, D-WDR, Smart IR, Motion detection, 8 Privacy zone

VCL2-F730W-IR *EOS802-W76(H-Tech)*

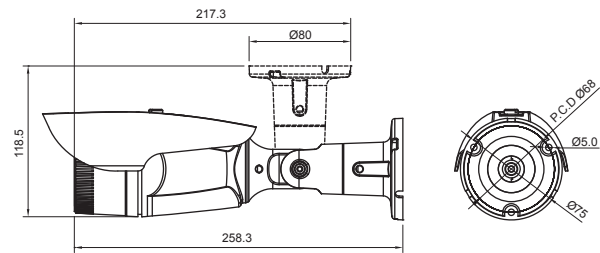
Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, Real WDR, Smart IR, Motion detection, 8 Privacy zone



Features

- f=3.6 / 6 / 8 / 12mm Fixed lens
- True Day & Night function (Exchange of two filters)
- 60pcs IR LEDs, Max. 65m IR Distance
- 3 AXIS Gimbal bracket
- Fan & Heater available(option)
- Cable Concealed Bracket
- Water-proof(IP67)
- Power : DC 12V / AC24V(Optional)
- Options: lens f=2.8~12mm Varifocal lens

Dimensions (Unit :mm)



Specifications

Model	VCL2-F720H-IR	VCL2-F710H-IR	VCL2-F730W-IR	
Image Device	1/3" SONY EXview HAD CCD II	1/3" SONY Super HAD CCD II	1/3" SONY Super HAD CCD II	
Scanning System	2:1 Interlace	2:1 Interlace	2:1 Interlace	
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)	
H. Resolution	700TV Lines	600TV Lines	600TV Lines	
Total Pixels	NTSC : 1020(H) x 508(V), PAL : 1020(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)	
Effective Pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)	
S/N Ratio	More than 50dB (AGC OFF)	More than 48dB (AGC OFF)	More than 48dB (AGC OFF)	
Min. Illumination	0.0 Lux (at IRED ON)	0.0 Lux (at IRED ON)	0.0 Lux (at IRED ON)	
Sync System	Internal	Internal	Internal	
Video Output	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)	
Lens	Fixed Iris	Fixed Iris	Fixed Iris	
Day&Night System	True D&N in ICR (Mechanism Filter Mountable)	True D&N in ICR (Mechanism Filter Mountable)	True D&N in ICR (Mechanism Filter Mountable)	
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	
OSD Function	LENS	Manual/ DC	DC / Video / Manual	ELC/ DC
	EXPOSURE	SHUTTER, AGC	Shutter / Brightness / AGC / DWDR	SHUTTER/ BRIGHTNESS/ AGC/ 2D DNR
	WHITE BALANCE	ATW, PUSH, USER1, USER2, ANTI CR, MANUAL, PUSH LOCK	ATW1 / ATW2 / AWC-SET / MANUAL	ATW/ MANUAL/ AWC>PUSH/ AWC
	BACKLIGHT	OFF, BLC, HLC	OFF / BLC / HLC	WDR/ BLC/ HLI(High Light Inversion)/D-WDR
	DWDR	OFF, ON (Level adjustable)	OFF, ON (Level adjustable)	WDR OFF, ON(Level adjustable)/ D-WDR OFF, ON(Level adjustable)
	DNR	OFF, ON (Level adjustable)	OFF, ON	OFF/LOW/MID/HIGH
	DAY & NIGHT	Auto / Color / BW(SMART IR) / EXT	Auto / Color / BW(SMART IR) / EXT	AUTO/ COLOR/ BW/ EX-CDS(SMART IR)
	MOTION DETECTION	OFF, ON (4 AREAS)	OFF, ON (4 AREAS)	OFF, ON (4 AREAS)
	PRIVACY	OFF, ON (4 AREAS)	OFF, ON (8 AREAS)	OFF, ON (8 AREAS)
	CAMERA ID	OFF, ON (0~9, A~Z, Special Character)	OFF, ON (0~9, A~Z, Special Character)	OFF, ON (0~9, A~Z, Special Character)
LANGUAGE	English, Japanese, German, French, Russian, Portuguese, Spanish, Chinese	English, Chinese	English, Chinese, Korean, Japanese, Italian, Russian, Portuguese, Spanish, German, French	
IR LED wavelength	850nm	850nm	850nm	
Infrared Luminary	60pcs IR LED	60pcs IR LED	60pcs IR LED	
IP Rating	IP67 (Waterproof)	IP67 (Waterproof)	IP67 (Waterproof)	
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)	
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)	
Humidity	Less than 80%	Less than 80%	Less than 80%	
Power Consumption	DC12V: Max. 130mA [IRED ON : max.550mA]	DC12V: Max. 110mA [IRED ON : max.420mA]	DC12V: Max. 130mA [IRED ON : max.440mA]	
Dimension	Ø75 x 168mm	Ø75 x 168mm	Ø75 x 168mm	
Weight	Approx. 680g(1.5lb)	Approx. 680g(1.5lb)	Approx. 680g(1.5lb)	

VCL3-F720H-IR *Effio-E(Sony)*

Sony 1/3" 960H EXview HAD II Supreme resolution Color CCD
700TVL, 2D-DNR, ATR, Smart IR, Motion detection, 4 Privacy zone

VCL3-F710H-IR *H-Bird(Nextchip)*

Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, D-WDR, Smart IR, Motion detection, 8 Privacy zone

VCL3-F730W-IR *EOS802-W76(H-Tech)*

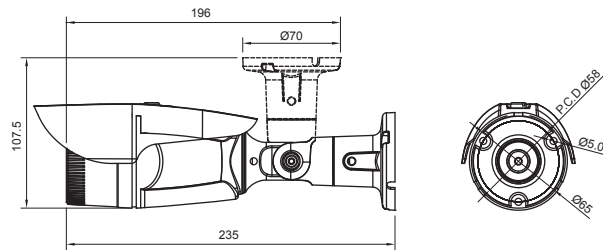
Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, Real WDR, Smart IR, Motion detection, 8 Privacy zone



Features

- f=3.6 / 6 / 8 / 12mm Fixed lens
- True Day & Night function (Exchange of two filters)
- 48pcs IR LEDs, Max. 50m IR Distance
- 3 AXIS Gimbal bracket
- Fan & Heater available(option)
- Cable Concealed Bracket
- Water-proof(IP67)
- Power : DC 12V / AC24V(Optional)
- Options : lens f=2.8~12mm

Dimensions (Unit :mm)



Specifications

Model	VCL3-F720H-IR	VCL3-F710H-IR	VCL3-F730W-IR	
Image Device	1/3" SONY EXview HAD CCD II	1/3" SONY Super HAD CCD II	1/3" SONY Super HAD CCD II	
Scanning System	2:1 Interlace	2:1 Interlace	2:1 Interlace	
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)	
H. Resolution	700TV Lines	600TV Lines	600TV Lines	
Total Pixels	NTSC : 1020(H) x 508(V), PAL : 1020(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)	
Effective Pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)	
S/N Ratio	More than 50dB (AGC OFF)	More than 48dB (AGC OFF)	More than 48dB (AGC OFF)	
Min. Illumination	0.0 Lux (at IRED ON)	0.0 Lux (at IRED ON)	0.0 Lux (at IRED ON)	
Sync System	Internal	Internal	Internal	
Video Output	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)	
Lens	Fixed Iris	Fixed Iris	Fixed Iris	
Day&Night System	True D&N in ICR (Mechanism Filter Mountable)	True D&N in ICR (Mechanism Filter Mountable)	True D&N in ICR (Mechanism Filter Mountable)	
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	
OSD Function	LENS	Manual/ DC	DC / Video / Manual	ELC/ DC
	EXPOSURE	SHUTTER, AGC	Shutter / Brightness / AGC / DWDR	SHUTTER/ BRIGHTNESS/ AGC/ 2D DNR
	WHITE BALANCE	ATW, PUSH, USER1, USER2, ANTI CR, MANUAL, PUSH LOCK	ATW1 / ATW2 / AWC-SET / MANUAL	ATW/ MANUAL/ AWC>PUSH/ AWC
	BACKLIGHT	OFF, BLC, HLC	OFF / BLC / HLC	WDR/ BLC/ HLI(High Light Inversion)/D-WDR
	DWDR	OFF, ON (Level adjustable)	OFF, ON (Level adjustable)	WDR OFF, ON(Level adjustable)/ D-WDR OFF, ON(Level adjustable)
	DNR	OFF, ON (Level adjustable)	OFF, ON	OFF/LOW/MID/HIGH
	DAY & NIGHT	Auto / Color / BW(SMART IR) / EXT	Auto / Color / BW(SMART IR) / EXT	AUTO/ COLOR/ BW/ EX-CDS(SMART IR)
	MOTION DETECTION	OFF, ON (4 AREAS)	OFF, ON (4 AREAS)	OFF, ON (4 AREAS)
	PRIVACY	OFF, ON (4 AREAS)	OFF, ON (8 AREAS)	OFF, ON (8 AREAS)
	CAMERA ID	OFF, ON (0~9, A~Z, Special Character)	OFF, ON (0~9, A~Z, Special Character)	OFF, ON (0~9, A~Z, Special Character)
LANGUAGE	English, Japanese, German, French, Russian, Portuguese, Spanish, Chinese	English, Chinese	English, Chinese, Korean, Japanese, Italian, Russian, Portuguese, Spanish, German, French	
IR LED wavelength	850nm	850nm	850nm	
Infrared Luminary	48pcs IR LED	48pcs IR LED	48pcs IR LED	
IP Rating	IP67 (Waterproof)	IP67 (Waterproof)	IP67 (Waterproof)	
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)	
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)	
Humidity	Less than 80%	Less than 80%	Less than 80%	
Power Consumption	DC12V: Max. 130mA [IRED ON : max.300mA]	DC12V: Max. 110mA [IRED ON : max.260mA]	DC12V: Max. 130mA [IRED ON : max.300mA]	
Dimension	Ø65 x 159mm	Ø65 x 159mm	Ø65 x 159mm	
Weight	Approx. 540g(1.2lb)	Approx. 540g(1.2lb)	Approx. 540g(1.2lb)	

VCL4-F824H-IR *Effio-E(Sony)*

Sony 1/3" 960H EXview HAD II Supreme resolution Color CCD
700TVL, 2D-DNR, ATR, Smart IR, Motion detection, 4 Privacy zone

VCL4-F814H-IR *H-Bird(Nextchip)*

Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, D-WDR, Smart IR, Motion detection, 8 Privacy zone

VCL4-F834W-IR *EOS802-W76(H-Tech)*

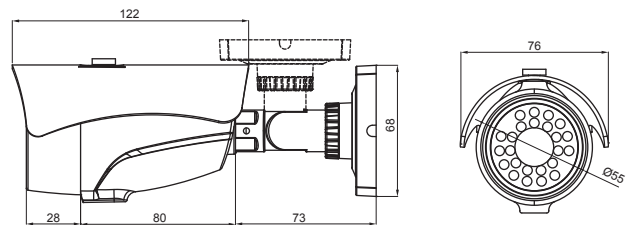
Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, Real WDR, Smart IR, Motion detection, 8 Privacy zone



Features

- f=3.6 / 6 / 8 / 12mm Fixed lens
- 25pcs IR LEDs, Max. 30m IR Distance
- 3 AXIS Gimbal bracket
- Fan & Heater available(option)
- Cable Concealed Bracket
- Water-proof(IP67)
- Power : DC 12V / AC24V(Option)

Dimensions (Unit :mm)



Specifications

Model	VCL4-F824H-IR	VCL4-F814H-IR	VCL4-F834W-IR	
Image Device	1/3" SONY EXview HAD CCD II	1/3" SONY Super HAD CCD II	1/3" SONY Super HAD CCD II	
Scanning System	2:1 Interlace	2:1 Interlace	2:1 Interlace	
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)	
H. Resolution	700TV Lines	600TV Lines	600TV Lines	
Total Pixels	NTSC : 1020(H) x 508(V), PAL : 1020(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)	
Effective Pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)	
S/N Ratio	More than 50dB (AGC OFF)	More than 48dB (AGC OFF)	More than 48dB (AGC OFF)	
Min. Illumination	0.0 Lux (at IRED ON)	0.0 Lux (at IRED ON)	0.0 Lux (at IRED ON)	
Sync System	Internal	Internal	Internal	
Video Output	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)	
Lens	Fixed Iris	Fixed Iris	Fixed Iris	
Day&Night System	Digital D&N	Digital D&N	Digital D&N	
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	
OSD Function	LENS	Manual/ DC	DC / Video / Manual	ELC/ DC
	EXPOSURE	SHUTTER, AGC	Shutter / Brightness / AGC / DWDR	SHUTTER/ BRIGHTNESS/ AGC/ 2D DNR
	WHITE BALANCE	ATW, PUSH, USER1, USER2, ANTI CR, MANUAL, PUSH LOCK	ATW1 / ATW2 / AWC-SET / MANUAL	ATW/ MANUAL/ AWC>PUSH/ AWC
	BACKLIGHT	OFF, BLC, HLC	OFF / BLC / HLC	WDR/ BLC/ HLI(High Light Inversion)/D-WDR
	DWDR	OFF, ON (Level adjustable)	OFF, ON (Level adjustable)	WDR OFF, ON(Level adjustable)/ D-WDR OFF, ON(Level adjustable)
	DNR	OFF, ON (Level adjustable)	OFF, ON	OFF/LOW/MID/HIGH
	DAY & NIGHT	Auto / Color / BW(SMART IR) / EXT	Auto / Color / BW(SMART IR) / EXT	AUTO/ COLOR/ BW/ EX-CDS(SMART IR)
	MOTION DETECTION	OFF, ON (4 AREAS)	OFF, ON (4 AREAS)	OFF, ON (4 AREAS)
	PRIVACY	OFF, ON (4 AREAS)	OFF, ON (8 AREAS)	OFF, ON (8 AREAS)
	CAMERA ID	OFF, ON (0~9, A~Z, Special Character)	OFF, ON (0~9, A~Z, Special Character)	OFF, ON (0~9, A~Z, Special Character)
LANGUAGE	English, Japanese, German, French, Russian, Portuguese, Spanish, Chinese	English, Chinese	English, Chinese, Korean, Japanese, Italian, Russian, Portuguese, Spanish, German, French	
IR LED wavelength	850nm	850nm	850nm	
Infrared Luminary	25pcs IR LED	25pcs IR LED	25pcs IR LED	
IP Rating	IP67 (Waterproof)	IP67 (Waterproof)	IP67 (Waterproof)	
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)	
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)	
Humidity	Less than 80%	Less than 80%	Less than 80%	
Power Consumption	DC12V: Max. 130mA [IRED ON : max.300mA]	DC12V: Max. 110mA [IRED ON : max.260mA]	DC12V: Max. 130mA [IRED ON : max.300mA]	
Dimension	Ø55 x 122mm	Ø55 x 122mm	Ø55 x 122mm	
Weight	Approx. 460g(1.0lb)	Approx. 460g(1.0lb)	Approx. 460g(1.0lb)	



DOME CAMERA

VCVP-V750W-IR *Effio-P(Sony)*

Sony 1/3" 960H Super HAD II Supream resolution Double Scan Color CCD
700TVL, 3D-DNR, WDR, 512X Sense-up, D-Zoom

VCVP-V740H-IR *Refia-D(Nextchip)*

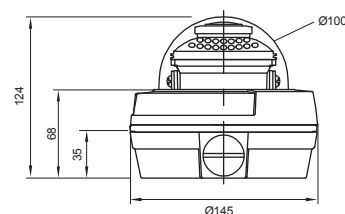
Sony 1/3" 960H Super HAD II Supream resolution Color CCD
700TVL, 3D-DNR, F-DNR, D-WDR, 256X Sense-up, D-Zoom



Features

- f=2.8~12mm DC IRIS Varifocal Lens (ICR)
- 40pcs IR LEDs, Max. 40m IR Distance
- Second Video Connector
- 3 AXIS Gimbal bracket
- Fan & Heater available(option)
- Vandal & Water-proof(IP68)
- Power : DC 12V / AC24V(Option)
- Options: VCVP-V510H-IR : 600TVL, D-WDR, 3D-DNR

Dimensions (Unit :mm)



Specifications

Model	VCVP-V750W-IR	VCVP-V740H-IR
Image Device	1/3" 960H Sony Super HAD CCD II (Double scan)	1/3" 960H SONY Super HAD CCD II
Scanning System	2:1 Interlace	2:1 Interlace
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)
H. Resolution	700TV Lines	700TV Lines
Total Pixels	NTSC : 1028(H) x 508(V), PAL : 1028(H) x 596(V)	NTSC : 1020(H) x 508(V), PAL : 1020(H) x 596(V)
Effective Pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)
S/N Ratio	More than 50dB (AGC OFF)	More than 50dB (AGC OFF)
Min. Illumination	0.0 Lux (at IRED ON)	0.0 Lux (at IRED ON)
Sync System	Internal	Internal
Video Output	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)
Lens	f=2.8~12mm DC Auto IRIS Varifocal	f=2.8~12mm DC Auto IRIS Varifocal
Day&Night System	True D&N in ICR (Mechanism Filter Mountable)	True D&N in ICR (Mechanism Filter Mountable)
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec
OSD Function	LENS	Manual/ DC
	EXPOSURE	AGC, BRIGHTNESS, Digital Slow Shutter
	WHITE BALANCE	ATW, ONE PUSH, INDOOR, OUTDOOR, MANUAL, AUTO
	BACKLIGHT	HLC, BLC
	WDR	OFF, ON [Normal, Light, Full (Low, Midlow, Mid, Midhigh, High)]
	DNR	Low, Midlow, Mid, Midhigh, High
	DAY & NIGHT	AUTO(IR SMART), COLOR
	MOTION DETECTION	OFF, ON (3 AREAS)
	PRIVACY	OFF, ON (16 AREAS)
	CAMERA ID	0~9, A~Z, Special Character
LANGUAGE	English, Chinese, Korean	
IR LED wavelength	850nm	850nm
Infrared Luminary	40pcs IR LED	40pcs IR LED
IP Rating	IP68 (Waterproof)	IP68 (Waterproof)
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)
Humidity	Less than 80%	Less than 80%
Power Consumption	DC12V, Max. 140mA [IRED ON: max. 320mA]	DC12V, Max. 170mA [IRED ON : max.350mA]
Dimension	Ø145 x 124mm	Ø145 x 124mm
Weight	Approx. 900g(2.0lb)	Approx. 900g(2.0lb)

VCVP-V720H-IR *Effio-E(Sony)*

Sony 1/3" 960H EXview HAD II Supreme resolution Color CCD
700TVL, 2D-DNR, ATR, Smart IR, Motion detection, 4 Privacy zone,

VCVP-V710H-IR *H-Bird(Nextchip)*

Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, D-WDR, Smart IR, Motion detection, 8 Privacy zone

VCVP-V730W-IR *EOS802-W76(H-Tech)*

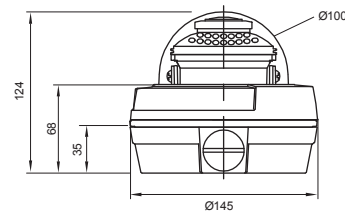
Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, Real WDR, Smart IR, Motion detection, 8 Privacy zone



Features

- f=2.8~12mm DC IRIS Varifocal Lens (ICR)
- 40pcs IR LEDs, Max. 40m IR Distance
- Second Video Connector
- 3 AXIS Gimbal bracket
- Fan & Heater available(option)
- Vandal & Water-proof(IP68)
- Power : DC 12V / AC24V(Option)

Dimensions (Unit :mm)



Specifications

Model	VCVP-V720H-IR	VCVP-V710H-IR	VCVP-V730W-IR	
Image Device	1/3" SONY EXview HAD CCD II	1/3" SONY Super HAD CCD II	1/3" SONY Super HAD CCD II	
Scanning System	2:1 Interlace	2:1 Interlace	2:1 Interlace	
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)	
H. Resolution	700TV Lines	600TV Lines	600TV Lines	
Total Pixels	NTSC : 1020(H) x 508(V), PAL : 1020(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)	
Effective Pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)	
S/N Ratio	More than 50dB (AGC OFF)	More than 48dB (AGC OFF)	More than 48dB (AGC OFF)	
Min. Illumination	0.0 Lux (at IRED ON)	0.0 Lux (at IRED ON)	0.0 Lux (at IRED ON)	
Sync System	Internal	Internal	Internal	
Video Output	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)	
Lens	f=2.8~12mm DC Auto IRIS Varifocal	f=2.8~12mm DC Auto IRIS Varifocal	f=2.8~12mm DC Auto IRIS Varifocal	
Day&Night System	True D&N in ICR (Mechanism Filter Mountable)	True D&N in ICR (Mechanism Filter Mountable)	True D&N in ICR (Mechanism Filter Mountable)	
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	
OSD Function	LENS	Manual/ DC	DC / Video / Manual	ELC/ DC
	EXPOSURE	SHUTTER, AGC	Shutter / Brightness / AGC / DWDR	SHUTTER/ BRIGHTNESS/ AGC/ 2D DNR
	WHITE BALANCE	ATW, PUSH, USER1, USER2, ANTI CR, MANUAL, PUSH LOCK	ATW1 / ATW2 / AWC-SET / MANUAL	ATW/ MANUAL/ AWC>PUSH/ AWC
	BACKLIGHT	OFF, BLC, HLC	OFF / BLC / HLC	WDR/ BLC/ HLI(High Light Inversion)/D-WDR
	DWDR	OFF, ON (Level adjustable)	OFF, ON (Level adjustable)	WDR OFF, ON(Level adjustable)/ D-WDR OFF, ON(Level adjustable)
	DNR	OFF, ON (Level adjustable)	OFF, ON	OFF/LOW/MID/HIGH
	DAY & NIGHT	Auto / Color / BW(SMART IR) / EXT	Auto / Color / BW(SMART IR) / EXT	AUTO/ COLOR/ BW/ EX-CDS(SMART IR)
	MOTION DETECTION	OFF, ON (4 AREAS)	OFF, ON (4 AREAS)	OFF, ON (4 AREAS)
	PRIVACY	OFF, ON (4 AREAS)	OFF, ON (8 AREAS)	OFF, ON (8 AREAS)
	CAMERA ID	OFF, ON (0~9, A~Z, Special Character)	OFF, ON (0~9, A~Z, Special Character)	OFF, ON (0~9, A~Z, Special Character)
LANGUAGE	English, Japanese, German, French, Russian, Portuguese, Spanish, Chinese	English, Chinese	English, Chinese, Korean, Japanese, Italian, Russian, Portuguese, Spanish, German, French	
IR LED wavelength	850nm	850nm	850nm	
Infrared Luminary	40pcs IR LED	40pcs IR LED	40pcs IR LED	
IP Rating	IP68 (Waterproof)	IP68 (Waterproof)	IP68 (Waterproof)	
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)	
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)	
Humidity	Less than 80%	Less than 80%	Less than 80%	
Power Consumption	DC12V: Max. 130mA [IRED ON : max.310mA]	DC12V: Max. 110mA [IRED ON : max.290mA]	DC12V: Max. 130mA [IRED ON : max.310mA]	
Dimension	Ø145 x 124mm	Ø145 x 124mm	Ø145 x 124mm	
Weight	Approx. 900g(2.0lb)	Approx. 900g(2.0lb)	Approx. 900g(2.0lb)	

VCV6-V750W-IR *Effio-P(Sony)*

Sony 1/3" 960H Super HAD II Supreme resolution Double Scan Color CCD
700TVL, 3D-DNR, WDR, 512X Sense-up, D-Zoom

VCV6-V740H-IR *Refia-D(Nextchip)*

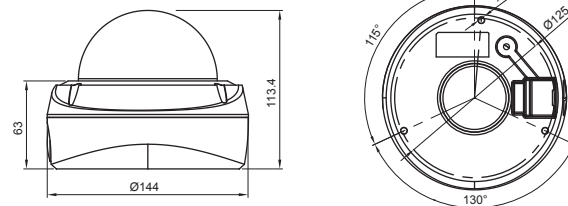
Sony 1/3" 960H Super HAD II Supreme resolution Color CCD
700TVL, 3D-DNR, F-DNR, D-WDR, 256X Sense-up, D-Zoom



Features

- f=2.8~12mm DC IRIS Varifocal Lens (ICR)
- 30pcs IR LEDs, Max. 35m IR Distance
- Second Video Connector
- 3 AXIS Gimbal bracket
- Fan & Heater available(option)
- Vandal & Water-proof(IP67)
- Power : DC 12V / AC24V(Option)

Dimensions (Unit :mm)



Specifications

Model	VCV6-V750W-IR	VCV6-V740H-IR
Image Device	1/3" 960H Sony Super HAD CCD II (Double scan)	1/3" 960H SONY Super HAD CCD II
Scanning System	2:1 Interlace	2:1 Interlace
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)
H. Resolution	700TV Lines	700TV Lines
Total Pixels	NTSC : 1028(H) x 508(V), PAL : 1028(H) x 596(V)	NTSC : 1020(H) x 508(V), PAL : 1020(H) x 596(V)
Effective Pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)
S/N Ratio	More than 50dB (AGC OFF)	More than 50dB (AGC OFF)
Min. Illumination	0.0 Lux (at IRED ON)	0.0 Lux (at IRED ON)
Sync System	Internal	Internal
Video Output	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)
Lens	f=2.8~12mm DC Auto IRIS Varifocal	f=2.8~12mm DC Auto IRIS Varifocal
Day&Night System	True D&N in ICR (Mechanism Filter Mountable)	True D&N in ICR (Mechanism Filter Mountable)
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec
OSD Function	LENS	Manual/ DC
	EXPOSURE	AGC, BRIGHTNESS, Digital Slow Shutter
	WHITE BALANCE	ATW, ONE PUSH, INDOOR, OUTDOOR, MANUAL, AUTO
	BACKLIGHT	HLC, BLC
	WDR	OFF, ON [Normal, Light, Full (Low, Midlow, Mid, Midhigh, High)]
	DNR	Low, Midlow, Mid, Midhigh, High
	DAY & NIGHT	AUTO(SMART IR), COLOR
	MOTION DETECTION	OFF, ON (3 AREAS)
	PRIVACY	OFF, ON (16 AREAS)
	CAMERA ID	0~9, A~Z, Special Character
LANGUAGE	English, Chinese, Korean	
IR LED wavelength	850nm	850nm
Infrared Luminary	30pcs IR LED	30pcs IR LED
IP Rating	IP67 (Waterproof)	IP67 (Waterproof)
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)
Humidity	Less than 80%	Less than 80%
Power Consumption	DC12V, Max. 140mA [IRED ON: max. 310mA]	DC12V, Max. 170mA [IRED ON : max.340mA]
Dimension	Ø144 x 113.4mm	Ø144 x 113.4mm
Weight	Approx. 860g(1.9lb)	Approx. 860g(1.9lb)

VCV6-V720H-IR *Effio-E(Sony)*

Sony 1/3" 960H EXview HAD II Supreme resolution Color CCD
700TVL, 2D-DNR, ATR, Smart IR, Motion detection, 4 Privacy zone

VCV6-V710H-IR *H-Bird(Nextchip)*

Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, D-WDR, Smart IR, Motion detection, 8 Privacy zone

VCV6-V730W-IR *EOS802-W76(H-Tech)*

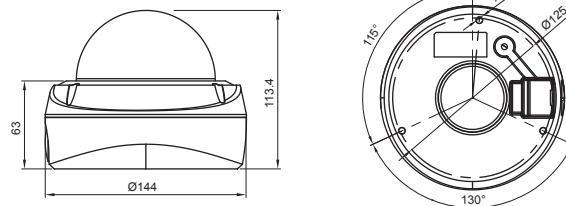
Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, Real WDR, Smart IR, Motion detection, 8 Privacy zone



Features

- f=2.8~12mm DC IRIS Varifocal Lens (ICR)
- 30pcs IR LEDs, Max. 35m IR Distance
- Second Video Connector
- 3 AXIS Gimbal bracket
- Fan & Heater available(option)
- Vandal & Water-proof(IP67)
- Power : DC 12V / AC24V(Option)

Dimensions (Unit :mm)



Specifications

Model	VCV6-V720H-IR	VCV6-V710H-IR	VCV6-V730W-IR	
Image Device	1/3" SONY EXview HAD CCD II	1/3" SONY Super HAD CCD II	1/3" SONY Super HAD CCD II	
Scanning System	2:1 Interlace	2:1 Interlace	2:1 Interlace	
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)	
H. Resolution	700TV Lines	600TV Lines	600TV Lines	
Total Pixels	NTSC : 1020(H) x 508(V), PAL : 1020(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)	
Effective Pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)	
S/N Ratio	More than 50dB (AGC OFF)	More than 48dB (AGC OFF)	More than 48dB (AGC OFF)	
Min. Illumination	0.0 Lux (at IRED ON)	0.0 Lux (at IRED ON)	0.0 Lux (at IRED ON)	
Sync System	Internal	Internal	Internal	
Video Output	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)	
Lens	f=2.8~12mm DC Auto IRIS Varifocal	f=2.8~12mm DC Auto IRIS Varifocal	f=2.8~12mm DC Auto IRIS Varifocal	
Day&Night System	True D&N in ICR (Mechanism Filter Mountable)	True D&N in ICR (Mechanism Filter Mountable)	True D&N in ICR (Mechanism Filter Mountable)	
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	
OSD Function	LENS	Manual/ DC	DC / Video / Manual	ELC/ DC
	EXPOSURE	SHUTTER, AGC	Shutter / Brightness / AGC / DWDR	SHUTTER/ BRIGHTNESS/ AGC/ 2D DNR
	WHITE BALANCE	ATW, PUSH, USER1, USER2, ANTI CR, MANUAL, PUSH LOCK	ATW1 / ATW2 / AWC-SET / MANUAL	ATW/ MANUAL/ AWC>PUSH/ AWC
	BACKLIGHT	OFF, BLC, HLC	OFF / BLC / HLC	WDR/ BLC/ HLI(High Light Inversion)/D-WDR
	DWDR	OFF, ON (Level adjustable)	OFF, ON (Level adjustable)	WDR OFF, ON(Level adjustable)/ D-WDR OFF, ON(Level adjustable)
	DNR	OFF, ON (Level adjustable)	OFF, ON	OFF/LOW/MID/HIGH
	DAY & NIGHT	Auto / Color / BW(SMART IR) / EXT	Auto / Color / BW(SMART IR) / EXT	AUTO/ COLOR/ BW/ EX-CDS(SMART IR)
	MOTION DETECTION	OFF, ON (4 AREAS)	OFF, ON (4 AREAS)	OFF, ON (4 AREAS)
	PRIVACY	OFF, ON (4 AREAS)	OFF, ON (8 AREAS)	OFF, ON (8 AREAS)
	CAMERA ID	OFF, ON (0~9, A~Z, Special Character)	OFF, ON (0~9, A~Z, Special Character)	OFF, ON (0~9, A~Z, Special Character)
LANGUAGE	English, Japanese, German, French, Russian, Portuguese, Spanish, Chinese	English, Chinese	English, Chinese, Korean, Japanese, Italian, Russian, Portuguese, Spanish, German, French	
IR LED wavelength	850nm	850nm	850nm	
Infrared Luminary	30pcs IR LED	30pcs IR LED	30pcs IR LED	
IP Rating	IP67 (Waterproof)	IP67 (Waterproof)	IP67 (Waterproof)	
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)	
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)	
Humidity	Less than 80%	Less than 80%	Less than 80%	
Power Consumption	DC12V: Max. 130mA [IRED ON : max.300mA]	DC12V: Max. 110mA [IRED ON : max.280mA]	DC12V: Max. 130mA [IRED ON : max.300mA]	
Dimension	Ø144 x 113.4mm	Ø144 x 113.4mm	Ø144 x 113.4mm	
Weight	Approx. 860g(1.9lb)	Approx. 860g(1.9lb)	Approx. 860g(1.9lb)	

VCD6-V750W-IR *Effio-P(Sony)*

Sony 1/3" 960H Super HAD II Supreme resolution Double Scan Color CCD
700TVL, 3D-DNR, WDR, 512X Sense-up, D-Zoom

VCD6-V740H-IR *Refia-D(Nextchip)*

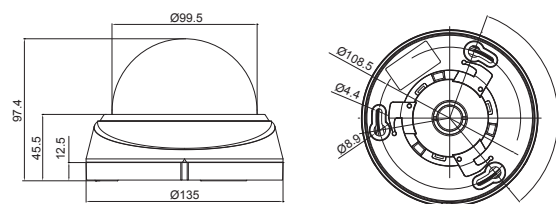
Sony 1/3" 960H Super HAD II Supreme resolution Color CCD
700TVL, 3D-DNR, F-DNR, D-WDR, 256X Sense-up, D-Zoom



Features

- f=2.8~12mm DC IRIS Varifocal Lens (ICR)
- 30pcs IR LEDs, Max. 35m IR Distance
- Second Video Connector
- 3 AXIS Gimbal bracket
- Power : DC 12V / AC24V(Optional)

Dimensions (Unit :mm)



Specifications

Model	VCD6-V750W-IR	VCD6-V740H-IR
Image Device	1/3" 960H Sony Super HAD CCD II (Double scan)	1/3" 960H SONY Super HAD CCD II
Scanning System	2:1 Interlace	2:1 Interlace
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)
H. Resolution	700TV Lines	700TV Lines
Total Pixels	NTSC : 1028(H) x 508(V), PAL : 1028(H) x 596(V)	NTSC : 1020(H) x 508(V), PAL : 1020(H) x 596(V)
Effective Pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)
S/N Ratio	More than 50dB (AGC OFF)	More than 50dB (AGC OFF)
Min. Illumination	0.0 Lux (at IRED ON)	0.0 Lux (at IRED ON)
Sync System	Internal	Internal
Video Output	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)
Lens	f=2.8~12mm DC Auto IRIS Varifocal	f=2.8~12mm DC Auto IRIS Varifocal
Day&Night System	True D&N in ICR (Mechanism Filter Mountable)	True D&N in ICR (Mechanism Filter Mountable)
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec
OSD Function	LENS	Manual/ DC
	EXPOSURE	AGC, BRIGHTNESS, Digital Slow Shutter
	WHITE BALANCE	ATW, ONE PUSH, INDOOR, OUTDOOR, MANUAL, AUTO
	BACKLIGHT	HLC, BLC
	WDR	OFF, ON [Normal, Light, Full (Low, Midlow, Mid, Midhigh, High)]
	DNR	Low, Midlow, Mid, Midhigh, High
	DAY & NIGHT	AUTO(SMART IR), COLOR
	MOTION DETECTION	OFF, ON (3 AREAS)
	PRIVACY	OFF, ON (16 AREAS)
	CAMERA ID	0~9, A~Z, Special Character
LANGUAGE	English, Chinese, Korean	
IR LED wavelength	850nm	850nm
Infrared Luminary	30pcs IR LED	30pcs IR LED
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)
Humidity	Less than 80%	Less than 80%
Power Consumption	DC12V, Max. 140mA [IRED ON: max. 310mA]	DC12V, Max. 170mA [IRED ON : max.340mA]
Dimension	Ø135 x 97.4mm	Ø135 x 97.4mm
Weight	Approx. 360g(0.8lb)	Approx. 360g(0.8lb)

VCD6-V720H-IR *Effio-E(Sony)*

Sony 1/3" 960H EXview HAD II Supreme resolution Color CCD
700TVL, 2D-DNR, ATR, Smart IR, Motion detection, 4 Privacy zone

VCD6-V710H-IR *H-Bird(Nextchip)*

Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, D-WDR, Smart IR, Motion detection, 8 Privacy zone

VCD6-V730W-IR *EOS802-W76(H-Tech)*

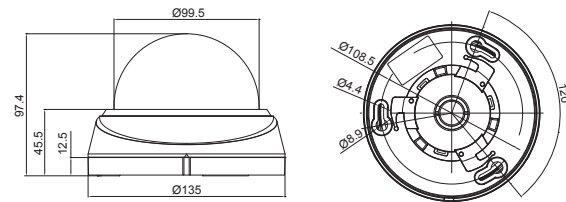
Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, Real WDR, Smart IR, Motion detection, 8 Privacy zone



Features

- f=2.8~12mm DC IRIS Varifocal Lens (ICR)
- 30pcs IR LEDs, Max. 35m IR Distance
- Second Video Connector
- 3 AXIS Gimbal bracket
- Power : DC 12V / AC24V(Optional)
- Option : 3.6 / 6 / 8 / 12mm Fixed lens

Dimensions (Unit :mm)



Specifications

Model	VCD6-V720H-IR	VCD6-V710H-IR	VCD6-V730W-IR	
Image Device	1/3" SONY EXview HAD CCD II	1/3" SONY Super HAD CCD II	1/3" SONY Super HAD CCD II	
Scanning System	2:1 Interlace	2:1 Interlace	2:1 Interlace	
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)	
H. Resolution	700TV Lines	600TV Lines	600TV Lines	
Total Pixels	NTSC : 1020(H) x 508(V), PAL : 1020(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)	
Effective Pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)	
S/N Ratio	More than 50dB (AGC OFF)	More than 48dB (AGC OFF)	More than 48dB (AGC OFF)	
Min. Illumination	0.0 Lux (at IRED ON)	0.0 Lux (at IRED ON)	0.0 Lux (at IRED ON)	
Sync System	Internal	Internal	Internal	
Video Output	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)	
Lens	f=2.8~12mm DC Auto IRIS Varifocal	f=2.8~12mm DC Auto IRIS Varifocal	f=2.8~12mm DC Auto IRIS Varifocal	
Day&Night System	True D&N in ICR (Mechanism Filter Mountable)	True D&N in ICR (Mechanism Filter Mountable)	True D&N in ICR (Mechanism Filter Mountable)	
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	
OSD Function	LENS	Manual/ DC	DC / Video / Manual	ELC/ DC
	EXPOSURE	SHUTTER, AGC	Shutter / Brightness / AGC / DWDR	SHUTTER/ BRIGHTNESS/ AGC/ 2D DNR
	WHITE BALANCE	ATW, PUSH, USER1, USER2, ANTI CR, MANUAL, PUSH LOCK	ATW1 / ATW2 / AWC-SET / MANUAL	ATW/ MANUAL/ AWC>PUSH/ AWC
	BACKLIGHT	OFF, BLC, HLC	OFF / BLC / HLC	WDR/ BLC/ HLI(High Light Inversion)/D-WDR
	DWDR	OFF, ON (Level adjustable)	OFF, ON (Level adjustable)	WDR OFF, ON(Level adjustable)/ D-WDR OFF, ON(Level adjustable)
	DNR	OFF, ON (Level adjustable)	OFF, ON	OFF/LOW/MID/HIGH
	DAY & NIGHT	Auto / Color / BW(SMART IR) / EXT	Auto / Color / BW(SMART IR) / EXT	AUTO/ COLOR/ BW/ EX-CDS(SMART IR)
	MOTION DETECTION	OFF, ON (4 AREAS)	OFF, ON (4 AREAS)	OFF, ON (4 AREAS)
	PRIVACY	OFF, ON (4 AREAS)	OFF, ON (8 AREAS)	OFF, ON (8 AREAS)
	CAMERA ID	OFF, ON (0~9, A~Z, Special Character)	OFF, ON (0~9, A~Z, Special Character)	OFF, ON (0~9, A~Z, Special Character)
LANGUAGE	English, Japanese, German, French, Russian, Portuguese, Spanish, Chinese	English, Chinese	English, Chinese, Korean, Japanese, Italian, Russian, Portuguese, Spanish, German, French	
IR LED wavelength	850nm	850nm	850nm	
Infrared Luminary	30pcs IR LED	30pcs IR LED	30pcs IR LED	
Operating Temperature	14°F ~ 122°F (-10℃ ~ +50℃)	14°F ~ 122°F (-10℃ ~ +50℃)	14°F ~ 122°F (-10℃ ~ +50℃)	
Storage Temperature	-4°F ~ 140°F (-20℃ ~ +60℃)	-4°F ~ 140°F (-20℃ ~ +60℃)	-4°F ~ 140°F (-20℃ ~ +60℃)	
Humidity	Less than 80%	Less than 80%	Less than 80%	
Power Consumption	DC12V: Max. 130mA [IRED ON : max.300mA]	DC12V: Max. 130mA [IRED ON : max.300mA]	DC12V: Max. 110mA [IRED ON : max.280mA]	
Dimension	Ø135 x 97.4mm	Ø135 x 97.4mm	Ø135 x 97.4mm	
Weight	Approx. 360g(0.8lb)	Approx. 360g(0.8lb)	Approx. 360g(0.8lb)	

VCD2-F822H *Effio-E(Sony)*

Sony 1/3" 960H EXview HAD II Supreme resolution Color CCD
700TVL, 2D-DNR, ATR, Motion detection, 4 Privacy zone

VCD2-F812H *H-Bird(Nextchip)*

Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, D-WDR, Motion detection, 8 Privacy zone

VCD2-F832W *EOS802-W76(H-Tech)*

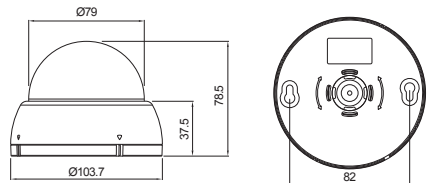
Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, Real WDR, Motion detection, 8 Privacy zone



Features

- f=3.6 / 6 / 8 / 12mm Fixed lens
- 3 AXIS Gimbal bracket

Dimensions (Unit :mm)



Specifications

Model	VCD2-F822H	VCD2-F812H	VCD2-F832W	
Image Device	1/3" SONY EXview HAD CCD II	1/3" SONY Super HAD CCD II	1/3" SONY Super HAD CCD II	
Scanning System	2:1 Interlace			
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)			
H. Resolution	700TV Lines	600TV Lines		
Total Pixels	NTSC : 1020(H) x 508(V), PAL : 1020(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)		
Effective pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)		
S/N Ratio	More than 50dB (AGC OFF)		More than 48dB (AGC OFF)	
Min Illumination	0.1Lux @ 30IRE, F2.0	0.2Lux @ 30IRE, F2.0	0.1Lux @ 30IRE, F2.0	
Sync system	Internal			
Video Output	1.0 Vpp Composite (75Ω)			
Lens	Fixed Iris			
Day&Night System	Digital D&N			
Electronic Shutter	NTSC : 1/60 ~ 1/100,000sec, PAL : 1/50 ~ 1/100,000sec			
OSD Function (Option)	LENS	Manual/ DC	DC / Video / Manual	ELC/ DC
	EXPOSURE	SHUTTER, AGC	Shutter / Brightness / AGC / DWDR	SHUTTER/ BRIGHTNESS/ AGC/ 2D DNR
	WHITE BALANCE	ATW, PUSH, USER1, USER2, ANTI CR, MANUAL, PUSH LOCK	ATW1 / ATW2 / AWC-SET / MANUAL	ATW/ MANUAL/ AWC-PUSH/ AWC
	BACKLIGHT	OFF, BLC, HLC	OFF, BLC, HLC	WDR/ BLC/ HL(High Light Inversion) /D-WDR
	DWDR	OFF, ON (Level adjustable)	OFF, ON (Level adjustable)	WDR OFF, ON(Level adjustable)/ D-WDR OFF, ON(Level adjustable)
	DNR	OFF, ON (Level adjustable)	OFF, ON	OFF/LOW/MID/HIGH
	DAY & NIGHT	Auto / Color / BW(SMART IR) / EXT	Auto / Color / BW(SMART IR) / EXT	AUTO/ COLOR/ BW/ EX-CDS(SMART IR)
	MOTION DETECTION	OFF, ON (4 AREAS)		
	CAMERA ID	OFF, ON (0-9, A-Z, Special Character)		
	LANGUAGE	English, Japanese, German, French, Russian, Portuguese, Spanish, Chinese	English, Chinese	English, Chinese, Korean, Italian, Japanese, Russian, Portuguese, Spanish, German, French
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)			
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)			
Humidity	Less than 80%			
Power Consumption	DC12V: Max. 130mA	DC12V: Max. 110mA	DC12V: Max. 120mA	
Dimension	Ø103.7 x 78.5			
Weight	Approx. 280g(0.6lb)			

VCD5-F824H-IR *Effio-E(Sony)*

Sony 1/3" 960H EXview HAD II Supreme resolution Color CCD
700TVL, 2D-DNR, ATR, Smart IR, Motion detection, 4 Privacy zone

VCD5-F814H-IR *H-Bird(Nextchip)*

Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, D-WDR, Smart IR, Motion detection, 8 Privacy zone

VCD5-F834W-IR *EOS802-W76(H-Tech)*

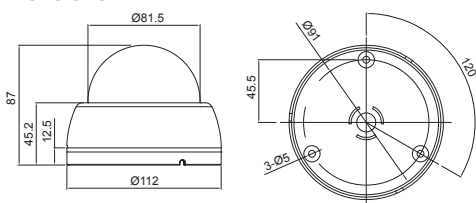
Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, Real WDR, Smart IR, Motion detection, 8 Privacy zone



Features

- f=3.6 / 6 / 8 / 12mm Fixed lens
- 3 AXIS Gimbal bracket
- Option : f=2.8~12mm DC IRIS Varifocal Lens (ICR)

Dimensions (Unit :mm)



Specifications

Model	VCD5-F824H-IR	VCD5-F814H-IR	VCD5-F834W-IR	
Image Device	1/3" SONY EXview HAD CCD II	1/3" SONY Super HAD CCD II	1/3" SONY Super HAD CCD II	
Scanning System	2:1 Interlace			
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)			
H. Resolution	700TV Lines	600TV Lines		
Total Pixels	NTSC : 1020(H) x 508(V), PAL : 1020(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)		
Effective pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)		
S/N Ratio	More than 50dB (AGC OFF)		More than 48dB (AGC OFF)	
Min Illumination	0.1Lux @ 30IRE, F2.0	0.2Lux @ 30IRE, F2.0	0.1Lux @ 30IRE, F2.0	
Sync system	Internal			
Video Output	1.0 Vpp Composite (75Ω)			
Lens	Fixed Iris			
Day&Night System	Digital D&N			
Electronic Shutter	NTSC : 1/60 ~ 1/100,000sec, PAL : 1/50 ~ 1/100,000sec			
OSD Function (Option)	LENS	Manual/ DC	DC / Video / Manual	ELC/ DC
	EXPOSURE	SHUTTER, AGC	Shutter / Brightness / AGC / DWDR	SHUTTER/ BRIGHTNESS/ AGC/ 2D DNR
	WHITE BALANCE	ATW, PUSH, USER1, USER2, ANTI CR, MANUAL, PUSH LOCK	ATW1 / ATW2 / AWC-SET / MANUAL	ATW/ MANUAL/ AWC-PUSH/ AWC
	BACKLIGHT	OFF, BLC, HLC	OFF, BLC, HLC	WDR/ BLC/ HL(High Light Inversion) /D-WDR
	DWDR	OFF, ON (Level adjustable)	OFF, ON (Level adjustable)	WDR OFF, ON(Level adjustable)/ D-WDR OFF, ON(Level adjustable)
	DNR	OFF, ON (Level adjustable)	OFF, ON	OFF/LOW/MID/HIGH
	DAY & NIGHT	Auto / Color / BW(SMART IR) / EXT	Auto / Color / BW(SMART IR) / EXT	AUTO/ COLOR/ BW/ EX-CDS(SMART IR)
	MOTION DETECTION	OFF, ON (4 AREAS)		
	CAMERA ID	OFF, ON (0-9, A-Z, Special Character)		
	LANGUAGE	English, Japanese, German, French, Russian, Portuguese, Spanish, Chinese	English, Chinese	English, Chinese, Korean, Italian, Japanese, Russian, Portuguese, Spanish, German, French
IR LED wavelength	850nm			
Infrared Luminary	24pcs IR LED			
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)			
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)			
Humidity	Less than 80%			
Power Consumption	DC12V: Max. 130mA [IRED ON : max.280mA]	DC12V: Max. 110mA [IRED ON : max.260mA]	DC12V: Max. 130mA [IRED ON : max.280mA]	
Dimension	Ø112 x 78.5			
Weight	Approx. 280g(0.6lb)			

VCO-PTZ12H



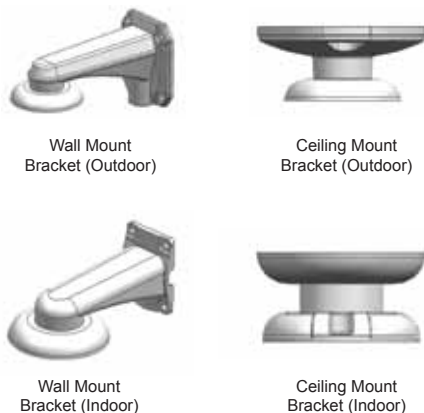
Features

- Auto Focus 12x Optical, 12x Digital Zoom
- Sony 1/4" Super HAD Color CCD
- High resolution of 500TVL(Color) / 570TVL(B/W)
- True Day & Night with ICR Mechanism
- HLC (High Light Compensation)
- DIS (Digital Image Stabilization)
- SNR (Super Noise Reduction)
- 127 Preset, 4 Pattern, 8 Swing / Group Function
- 8 Privacy Masks (Spherical Coordinates)
- Auto Flip, Auto Parking, Power-up Action
- Frame Freeze Function, On-Screen Display On / Off
- Vandalproof and Waterproof Structure (IP67)
- Built-in Sensor In/Out : 3 In/ 1 Out • Built In Fan & Heater
- Optional Network Function (IP Addressable)
- Smooth Motion at High Zoom Magnification Mode
- Lightening Speed (MAX. 360 ° /sec)
& Smooth Manual Speed (MIN. 0.05 ° /sec)
- Lowest Noise & Lowest Vibration • Endless 360 ° Pan Rotation

Optional Models

- VCO-PTZ10H-IW : Indoor + Wall Mount bracket
- VCO-PTZ10H-IC : Indoor + Ceiling Mount bracket
- VCO-PTZ10H-OW : Outdoor + Wall Mount bracket
- VCO-PTZ10H-OC : Outdoor + Ceiling Mount bracket

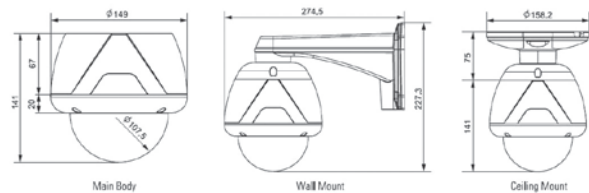
Accessory



Specifications

Model	VCO-PTZ12H
Image Device	Sony 1/4" Interline Transfer CCD
Effective Pixel	NTSC : 768 (H) x 494(V), PAL : 752(H) x 582(V)
H.Resolution	500TV Lines(Color) / 570TV Lines(B/W)
S/N Ratio	More than 50dB (AGC off)
Zoom	x12 Optical, 12x Digital
Focal length	f=3.8~38mm/F1.8
Min.Illumination	0.7Lux(Color)/0.02Lux(B/W)/50IRE
Day & Night	Auto / Day / Night (IR Cut Filter)
Focus	Auto / Manual / Semi-Auto
Iris	Auto / Manual
Shutter Speed	x256 ~ 1/120000 sec
AGC	Normal / High / Off
White Balance	Auto / Manual (Red & Blue Gain Adjustable)
BLC	Low / Middle / High / Off
Flickerless	Selectable
SSNR	Low / Middle / High / Off
Privacy Mark	8 Masks with Spherical Coordinates
Range	Pan : 360 ° (Endless) / Tilt : 90 ° Preset : 360 ° /sec
Pan/Tilt Speed	Manual : 0.05 ° ~ 360 ° /sec (Zoom Proportional) Swing : 1 ° ~ 180 ° /sec
Preset	127 Presets with Labels / Independent Preset Parameter Setup
Pattern	4 Patterns (Approx. 5 Minutes for Each Pattern)
Swing	8 Swings
Group	8 Groups (Max.20 Entries for Each Group)
Other Functions	Auto Flip, Auto Parking, Power-up Action & etc.
Communication	RS-485
Protocol	Pelco-D, Pelco-P Selectable
OSD	English On / Off
Dimension	Dome : Ø107.5mm Housing : 149(Ø)x 141(H) mm
Weight	Approx. 2kg (4.4lbs) - Without Bracket
Material	Dome : Poly Carbonate / Housing : Aluminum
Environment	Indoor / Outdoor
Fan & Heater	Built -In
Operating Temp.	Indoor : 0 °C ~ 40 °C, Outdoor : -30 °C ~ 50 °C
Power	Indoor : DC 12V/0.8A, Outdoor : DC12V/2.5A
Sensor In/Out	3 Inputs (Photo Coupler Type)/ 1 Output (Relay Type)
Network	Optional / IP Addressable with H.264 DC 12V Model Only/ Additional 0.5A required

Dimensions (Unit :mm)



VCO-PTZ27/33/37H



Ceiling Mount Type
(Outdoor)

Wall Mount Type
(Outdoor)

Joystick

Features

- Auto Focus 27x/ 33x/ 37x Optical, 12x Digital Zoom
- Sony 1/4" Super HAD Color CCD
- High resolution of 500TVL(Color) / 570TVL(B/W)
- True Day & Night with ICR Mechanism
- HLC (High Light Compensation)
- DIS (Digital Image Stabilization)
- SNR (Super Noise Reduction)
- 127 Preset, 4 Pattern, 8 Swing / Group Function
- 8 Privacy Masks (Spherical Coordinates)
- Auto Flip, Auto Parking, Power-up Action
- Frame Freeze Function, On-Screen Display On / Off
- Vandalproof and Waterproof Structure (IP67)
- Built-in Sensor In/Out : 3 In/ 1 Out • Built In Fan & Heater
- Optional Network Function (IP Addressable)
- Smooth Motion at High Zoom Magnification Mode
- Lightening Speed (MAX. 360 ° /sec)
& Smooth Manual Speed (MIN. 0.05 ° /sec)
- Lowest Noise & Lowest Vibration • Endless 360 ° Pan Rotation

Optional Models

- VCO-PTZ(27/33/37)H-IW : Indoor + Wall Mount bracket
- VCO-PTZ(27/33/37)H-IC : Indoor + Ceiling Mount bracket
- VCO-PTZ(27/33/37)H-OW : Outdoor + Wall Mount bracket
- VCO-PTZ(27/33/37)H-OC : Outdoor + Ceiling Mount bracket

Accessory



Wall Mount
Bracket (Outdoor)



Ceiling Mount
Bracket (Outdoor)



Wall Mount
Bracket (Indoor)

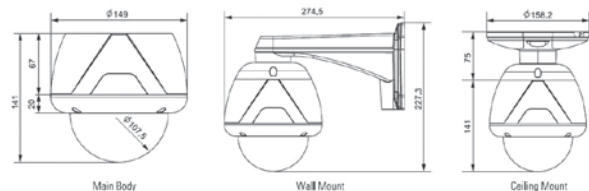


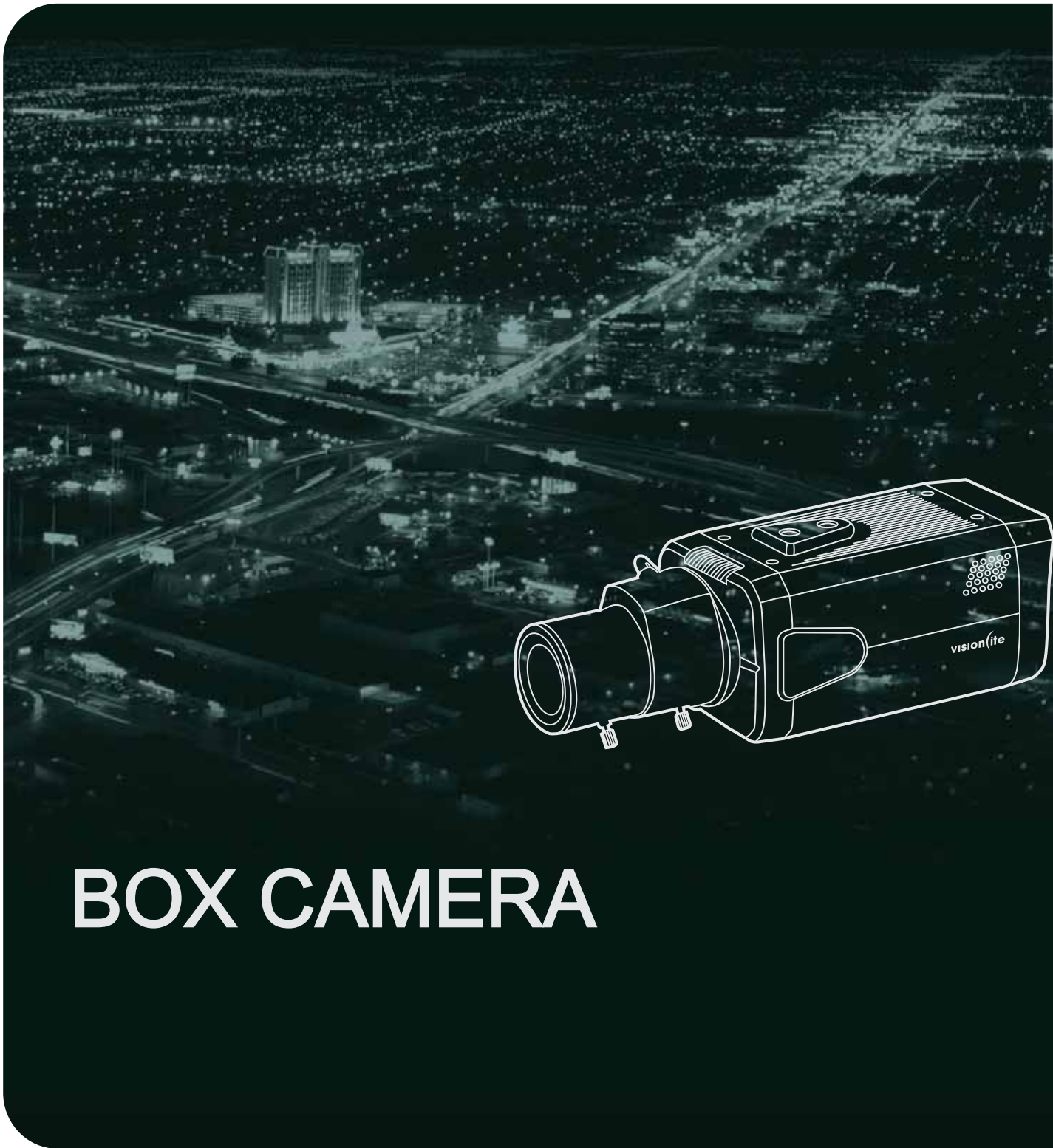
Ceiling Mount
Bracket (Indoor)

Specifications

Model	VCO-PTZ37H	VCO-PTZ33H	VCO-PTZ27H
Image Device	Sony 1/4" Interline Transfer CCD		
Effective Pixel	NTSC : 768 (H) x 494(V), PAL : 752(H) x 582(V)		
H.Resolution	500TV Lines(Color) / 570TV Lines(B/W)		
S/N Ratio	More than 50dB (AGC off)		
Zoom	x37 Optical, x12 Digital	x33 Optical, x12 Digital	x27 Optical, x12 Digital
Focal length	f=3.5-129.5mm/F1.6-3.9	f=3.5-115.5mm/F1.6-3.6	f=3.5-94.5mm/F1.6-2.9
Min.Illumination	0.7Lux(Color)/0.06 Lux(B/W)/50IRE,F1.6	0.4Lux(Color)/0.02Lux(B/W)/50IRE,F1.6	
Day & Night	Auto / Day / Night (IR Cut Filter)		
Focus	Auto / Manual / Semi-Auto		
Iris	Auto / Manual		
Shutter Speed	x256 ~ 1/120000 sec		
AGC	Low / Middle / High / Manual / Off		
White Balance	Auto / Manual (Red & Blue Gain Adjustable)		
BLC	WDR / BLC / HLC / Off	BLC / HLC / Off	
Flickerless	Selectable		
SSNR	Low / Middle / High / Off		
Privacy Mark	8 Masks with Spherical Coordinates		
Range	Pan : 360 ° (Endless) / Tilt : 90 °		
	Preset : 360 ° /sec		
Pan/Tilt Speed	Manual : 0.05 ° ~ 360 ° /sec (Zoom Proportional)		
	Swing : 1 ° ~ 180 ° /sec		
Preset	127 Presets with Labels / Independent Preset Parameter Setup		
Pattern	4 Patterns (Approx. 5 Minutes for Each Pattern)		
Swing	8 Swings		
Group	8 Groups (Max.20 Entries for Each Group)		
Other Functions	Auto Flip, Auto Parking, Power-up Action & etc.		
Communication	RS-485		
Protocol	Pelco-D, Pelco-P Selectable		
OSD	English On / Off		
Dimension	Dome : Ø150mm Housing : 149(Ø)x 141(H) mm		
Weight	Approx. 3kg (6.6lb) - Without Bracket		
Material	Dome : Poly Carbonate / Housing : Aluminum		
Environment	Indoor / Outdoor		
Fan & Heater	Built -In		
Operating Temp.	Indoor : 0°C ~ 40°C, Outdoor : -30°C ~ 50°C		
Power	Indoor : AC 24V/0.4A, Outdoor : AC24V/1.5A		
Sensor In/Out	3 Inputs (Photo Coupler Type) / 1 Output (Relay Type)		
Network	Optional / IP Addressable with H.264 DC 12V Model Only/ Additional 0.5A required		

Dimensions (Unit :mm)





BOX CAMERA

VCS2-E750W *Effio-P(Sony)*

Sony 1/3" 960H Super HAD II Supreme resolution Double Scan Color CCD
700TVL, 3D-DNR, WDR, 512X Sense-up, D-Zoom

VCS2-E740H *Refia-D(Nextchip)*

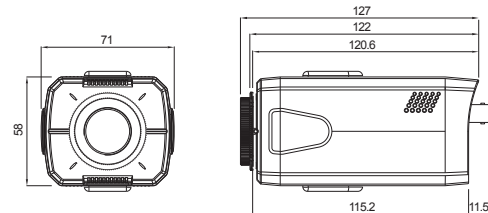
Sony 1/3" 960H Super HAD II Supreme resolution Color CCD
700TVL, 3D-DNR, F-DNR, D-WDR, 256X Sense-up, D-Zoom



Features

- True Day & Night Function(Exchange of two filters)
- Built-in OSD menu function
- C/CS Mount Lens
- Power : DC 12V / AC24V(Optional)
- Option : Without TDN model

Dimensions (Unit :mm)



Specifications

Model	VCS2-E750W	VCS2-E740H
Image Device	1/3" 960H Sony Super HAD CCD II (Double scan)	1/3" 960H SONY Super HAD CCD II
Scanning System	2:1 Interlace	2:1 Interface
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)
H. Resolution	700TV Lines	700TV Lines
Total Pixels	NTSC : 1028(H) x 508(V), PAL : 1028(H) x 596(V)	NTSC : 1020(H) x 508(V), PAL : 1020(H) x 596(V)
Effective Pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)
S/N Ratio	More than 50dB (AGC OFF)	More than 50dB (AGC OFF)
Min. Illumination	0.1Lux @ 30IRE, F2.0	0.1Lux @ 30IRE, F2.0
Sync System	Internal	Internal
Video Output	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)
Lens	C/CS	C/CS
Day&Night System	True D&N (Mechanism Filter Mountable)	True D&N (Mechanism Filter Mountable)
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec
OSD Function	LENS	Manual/ DC
	EXPOSURE	AGC, BRIGHTNESS, Digital Slow Shutter
	WHITE BALANCE	ATW, ONE PUSH, INDOOR, OUTDOOR, MANUAL, AUTO
	BACKLIGHT	HLC, BLC
	WDR	OFF, ON [Normal, Light, Full (Low, Midlow, Mid, Midhigh, High)]
	DNR	Low, Midlow, Mid, Midhigh, High
	DAY & NIGHT	AUTO(SMART IR), COLOR
	MOTION DETECTION	OFF, ON (3 AREAS)
	PRIVACY	OFF, ON (16 AREAS)
	CAMERA ID	0-9, A-Z, Special Character
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)
	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)
Humidity	Less than 80%	Less than 80%
Power Consumption	DC12V, Max. 140mA	DC12V, Max. 170mA
Dimension	71(W) x 58(H) x 127(D)mm	71(W) x 58(H) x 127(D)mm
Weight	Approx. 240g(0.5lb)	Approx. 240g(0.5lb)

VCS2-E720H *Effio-E(Sony)*

Sony 1/3" 960H EXview HAD II Supreme resolution Color CCD
700TVL, 2D-DNR, ATR, Motion detection, 4 Privacy zone

VCS2-E710H *H-Bird(Nextchip)*

Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, D-WDR, Motion detection, 8 Privacy zone

VCS2-E730W *EOS802-W76(H-Tech)*

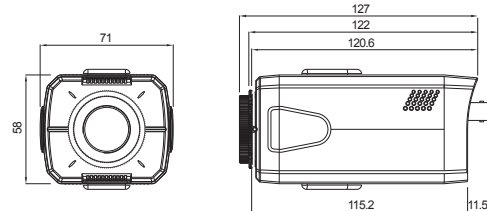
Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, Real WDR, Motion detection, 8 Privacy zone



Features

- True Day & Night Function(Exchange of two filters)
- Built-in OSD menu function
- C/CS Mount Lens
- Power : DC 12V / AC24V(Option)
- Option : Without TDN model

Dimensions (Unit :mm)



Specifications

Model	VCS2-E720H	VCS2-E710H	VCS2-E730W
Image Device	1/3" SONY EXview HAD CCD II	1/3" SONY Super HAD CCD II	1/3" SONY Super HAD CCD II
Scanning System	2:1 Interlace	2:1 Interlace	2:1 Interlace
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)
H. Resolution	700TV Lines	600TV Lines	600TV Lines
Total Pixels	NTSC : 1020(H) x 508(V), PAL : 1020(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)
Effective Pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)
S/N Ratio	More than 50dB (AGC OFF)	More than 48dB (AGC OFF)	More than 48dB (AGC OFF)
Min. Illumination	0.1Lux @ 30IRE, F2.0	0.2Lux @ 30IRE, F2.0	0.1Lux @ 30IRE, F2.0
Sync System	Internal	Internal	Internal
Video Output	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)
Lens	C/CS	C/CS	C/CS
Day&Night System	True D&N (Mechanism Filter Mountable)	True D&N (Mechanism Filter Mountable)	True D&N (Mechanism Filter Mountable)
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec
OSD Function	LENS	Manual/ DC	DC / Video / Manual
	EXPOSURE	SHUTTER, AGC	Shutter / Brightness / AGC / DWDR
	WHITE BALANCE	ATW, PUSH, USER1, USER2, ANTI CR, MANUAL, PUSH LOCK	ATW1 / ATW2 / AWC-SET / MANUAL
	BACKLIGHT	OFF, BLC, HLC	OFF / BLC / HLC
	DWDR	OFF, ON (Level adjustable)	OFF, ON (Level adjustable)
	DNR	OFF, ON (Level adjustable)	OFF, ON
	DAY & NIGHT	Auto / Color / BW(SMART IR) / EXT	Auto / Color / BW(SMART IR) / EXT
	MOTION DETECTION	OFF, ON (4 AREAS)	OFF, ON (4 AREAS)
	PRIVACY	OFF, ON (4 AREAS)	OFF, ON (8 AREAS)
	CAMERA ID	OFF, ON (0~9, A~Z, Special Character)	OFF, ON (0~9, A~Z, Special Character)
LANGUAGE	English, Japanese, German, French, Russian, Portuguese, Spanish, Chinese	English, Chinese	English, Chinese, Korean, Japanese, Italian, Russian, Portuguese, Spanish, German, French
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)
Humidity	Less than 80%	Less than 80%	Less than 80%
Power Consumption	DC12V: Max. 150mA	DC12V: Max. 120mA	DC12V: Max. 140mA
Dimension	71(W) x 58(H) x 127(D)	71(W) x 58(H) x 127(D)	71(W) x 58(H) x 127(D)
Weight	Approx. 240g(0.5lb)	Approx. 240g(0.5lb)	Approx. 240g(0.5lb)

VCS-E722H *Effio-E(Sony)*

Sony 1/3" 960H EXview HAD II Supreme resolution Color CCD
700TVL, 2D-DNR, ATR, Motion detection, 4 Privacy zone

VCS-E712H *H-Bird(Nextchip)*

Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, D-WDR, Motion detection, 8 Privacy zone

VCS-E732W *EOS802-W76(H-Tech)*

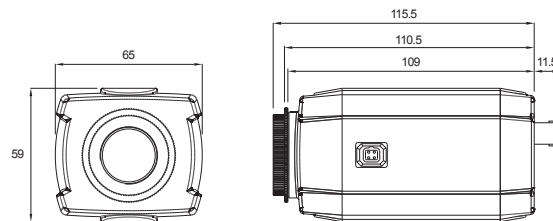
Sony 1/3" Super HAD II High resolution Color CCD
600TVL, 2D-DNR, Real WDR, Motion detection, 8 Privacy zone



Features

- Built-in OSD menu function
- C/CS Mount Lens
- Power : DC 12V / AC24V(Option)
- Option : With TDN model

Dimensions (Unit :mm)



Specifications

Model	VCS-E722H	VCS-E712H	VCS-E732W	
Image Device	1/3" SONY EXview HAD CCD II	1/3" SONY Super HAD CCD II	1/3" SONY Super HAD CCD II	
Scanning System	2:1 Interlace	2:1 Interlace	2:1 Interlace	
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)	NTSC : 59.94Hz(V), PAL : 50Hz(V)	
H. Resolution	700TV Lines	600TV Lines	600TV Lines	
Total Pixels	NTSC : 1020(H) x 508(V), PAL : 1020(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)	
Effective Pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)	
S/N Ratio	More than 50dB (AGC OFF)	More than 48dB (AGC OFF)	More than 48dB (AGC OFF)	
Min. Illumination	0.1Lux @ 30IRE, F2.0	0.2Lux @ 30IRE, F2.0	0.1Lux @ 30IRE, F2.0	
Sync System	Internal	Internal	Internal	
Video Output	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)	1.0 Vpp Composite (75Ω)	
Lens	C/CS	C/CS	C/CS	
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	
OSD Function	LENS	Manual/ DC	DC / Video / Manual	ELC/ DC
	EXPOSURE	SHUTTER, AGC	Shutter / Brightness / AGC / DWDR	SHUTTER/ BRIGHTNESS/ AGC/ 2D DNR
	WHITE BALANCE	ATW, PUSH, USER1, USER2, ANTI CR, MANUAL, PUSH LOCK	ATW1 / ATW2 / AWC-SET / MANUAL	ATW/ MANUAL/ AWC>PUSH/ AWC
	BACKLIGHT	OFF, BLC, HLC	OFF / BLC / HLC	WDR/ BLC/ HLC(High Light Inversion)/D-WDR
	DWDR	OFF, ON (Level adjustable)	OFF, ON (Level adjustable)	WDR OFF, ON(Level adjustable)/ D-WDR OFF, ON(Level adjustable)
	DNR	OFF, ON (Level adjustable)	OFF, ON	OFF/LOW/MID/HIGH
	DAY & NIGHT	Auto / Color / BW(SMART IR) / EXT	Auto / Color / BW(SMART IR) / EXT	AUTO/ COLOR/ BW/ EX-CDS(SMART IR)
	MOTION DETECTION	OFF, ON (4 AREAS)	OFF, ON (4 AREAS)	OFF, ON (4 AREAS)
	PRIVACY	OFF, ON (4 AREAS)	OFF, ON (8 AREAS)	OFF, ON (8 AREAS)
	CAMERA ID	OFF, ON (0~9, A~Z, Special Character)	OFF, ON (0~9, A~Z, Special Character)	OFF, ON (0~9, A~Z, Special Character)
LANGUAGE	English, Japanese, German, French, Russian, Portuguese, Spanish, Chinese	English, Chinese	English, Chinese, Korean, Japanese, Italian, Russian, Portuguese, Spanish, German, French	
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)	14°F ~ 122°F (-10°C ~ +50°C)	
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)	-4°F ~ 140°F (-20°C ~ +60°C)	
Humidity	Less than 80%	Less than 80%	Less than 80%	
Power Consumption	DC12V: Max. 150mA	DC12V: Max. 120mA	DC12V: Max. 140mA	
Dimension	65(W) x 59(H) x 109(D)	65(W) x 59(H) x 109(D)	65(W) x 59(H) x 109(D)	
Weight	Approx. 330g(0.7lb)	Approx. 330g(0.7lb)	Approx. 330g(0.7lb)	



MINIATURE & MODULE CAMERA

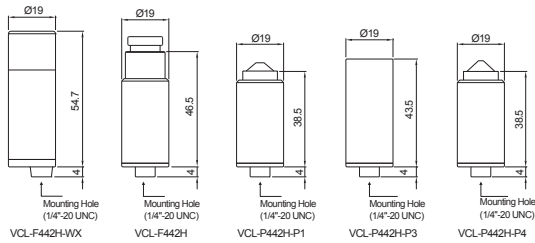
VCL-442H



Features

- Supreme resolution of 700 TV Lines
- Sony 1/3" 960H Super HAD II Color CCD
- Min. Illumination of 0.0002Lux@Sense-up
- 3D-DNR(3D Digital Noise Reduction)
- F-DNR(Fog- Digital Noise Reduction)
- 256x Sens-up, D-WDR
- HLM(High Light Masking), OSD(Option)
- Digital Zoom, 8 Privacy Zones, Motion Detection
- Waterproof(IP67): VCL-F442H-WX only
- World Smallest size of 19(Ø)mm

Dimensions (Unit :mm)



Specifications

Model	VCL-442H	
Image Device	1/3" 960H SONY Super HAD CCD II	
Scanning System	2:1 Interlace	
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	
H. Resolution	700TV Lines	
Total Pixels	NTSC : 1020(H) x 508(V), PAL : 1020(H) x 596(V)	
Effective pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	
S/N Ratio	More than 50dB (AGC OFF)	
Min Illumination	0.0002Lux@Sense-up	
Sync system	Internal	
Video Output	1.0 Vpp Composite (75Ω)	
Lens	Fixed Lens, Pinhole Lens, Door View Lens	
Day&Night System	Digital D&N	
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	
OSD Function (option)	LENS	Manual/ DC
	EXPOSURE	SHUTTER, AGC, SENSUP
	WHITE BALANCE	ATW, AWB, AWC->SET, MANUAL
	BACKLIGHT	OFF, DWDR, BLC, HSBLC
	DWDR	OFF, ON (Level adjustable)
	DNR	SMART DNR OFF, ON (Level adjustable)
	DAY & NIGHT	AUTO, EXT, B/W(IR SMART), COLOR
	MOTION DETECTION	OFF, ON (4 AREAS)
	PRIVACY	OFF, ON (8 AREAS)
	CAMERA ID	0-9, A-Z, Special Character
LANGUAGE	English, Korean, Japanese, Chinese, Russian, French, Spanish, Italian, Portuguese, Dutch, German, Polish, Turkish, Hebrew, Arabic	
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	
Humidity	Less than 80%	
Power Consumption	DC12V(±10%), Max.110mA	
Dimension	Ø19mm	
Weight	Approx. 83g(0.2lb)	

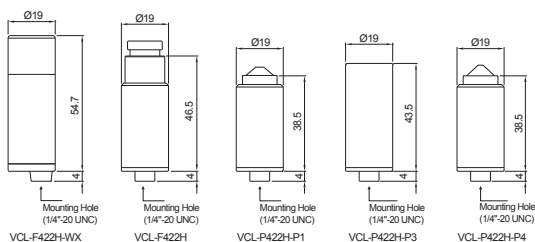
VCL-422H



Features

- Supreme resolution of 700 TV Lines
- Sony 1/3" 960H EXview HAD II Color CCD
- 2D-DNR(Digital Noise Reduction)
- D-WDR
- HLM(High Light Masking), OSD(Option)
- Digital Zoom, 4 Privacy Zones, Motion Detection
- Waterproof(IP67) : VCL-F422H-WX only
- World Smallest size of 19(Ø)mm

Dimensions (Unit :mm)



Specifications

Model	VCL-422H	
Image Device	1/3" SONY EXview HAD CCD II	
Scanning System	2:1 Interlace	
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	
H. Resolution	700TV Lines	
Total Pixels	NTSC : 1020(H) x 508(V), PAL : 1020(H) x 596(V)	
Effective pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	
S/N Ratio	More than 50dB (AGC OFF)	
Min Illumination	0.1Lux @ 30IRE, F2.0	
Sync system	Internal	
Video Output	1.0 Vpp Composite (75Ω)	
Lens	Fixed Lens, Pinhole Lens, Door View Lens	
Day&Night System	Digital D&N	
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	
OSD Function (option)	LENS	Manual/ DC
	EXPOSURE	SHUTTER, AGC
	WHITE BALANCE	ATW, PUSH, USER1, USER2, ANTI CR, MANUAL, PUSH LOCK
	BACKLIGHT	OFF, BLC, HLC
	DWDR	OFF, ON (Level adjustable)
	DNR	OFF, ON (Level adjustable)
	DAY & NIGHT	Auto / Color / BW(IR Smart) / EXT
	MOTION DETECTION	OFF, ON (4 AREAS)
	PRIVACY	OFF, ON (4 AREAS)
	CAMERA ID	0-9, A-Z, Special Character
LANGUAGE	English/ Japanese/ German/ French/ Russian/ Portuguese/ Spanish/ Chinese	
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	
Humidity	Less than 80%	
Power Consumption	DC12V(±10%), Max.110mA	
Dimension	Ø19mm	
Weight	Approx. 83g(0.2lb)	

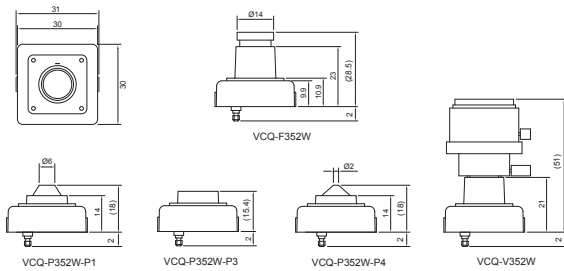
VCQ-352W



Features

- Supreme resolution of 700 TV Lines
- Sony 1/3" 960H Super HAD II Color CCD(Double Scan)
- Min. Illumination of 0.0002Lux@Sense-up
- 3D-DNR(3D Digital Noise Reduction)
- WDR(Wide Dynamic Range)
- 512x Sens-up
- HLM(High Light Masking), OSD
- Digital Zoom, 16 Privacy Zones, Motion Detection

Dimensions (Unit :mm)



Specifications

Model	VCQ-352W	
Image Device	1/3" 960H SONY Super HAD CCD II (Double scan)	
Scanning System	2:1 Interlace	
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	
H. Resolution	700TV Lines	
Total Pixels	NTSC : 1028(H) x 508(V), PAL : 1028(H) x 596(V)	
Effective pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	
S/N Ratio	More than 50dB (AGC OFF)	
Min Illumination	0.0002Lux@Sense-up	
Sync system	Internal	
Video Output	1.0 Vpp Composite (75Ω)	
Lens	Fixed Lens, Pinhole Lens, Varifocal Lens	
Day&Night System	Digital D&N	
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	
OSD	LENS	Manual/ DC
	EXPOSURE	AGC, BRIGHTNESS, Digital Slow Shutter
	WHITE BALANCE	ATW, ONE PUSH, INDOOR, OUTDOOR, MANUAL, AUTO
	BACKLIGHT	OFF, DWDR, BLC, HSBL
	DWDR	OFF, ON (Level adjustable)
	DNR	Low, Midlow, Mid, Midhigh, High
	DAY & NIGHT	AUTO(IR SMART), COLOR
	MOTION DETECTION	OFF, ON (3 AREAS)
	PRIVACY	OFF, ON (16 AREAS)
	CAMERA ID	0-9, A-Z, Special Character
LANGUAGE	English, Chinese, Korean	
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	
Humidity	Less than 80%	
Power Consumption	DC12V(±10%), Max.140mA	
Dimension	30(W) x 30(H) mm	
Weight	Approx. 82g(0.2lb)	

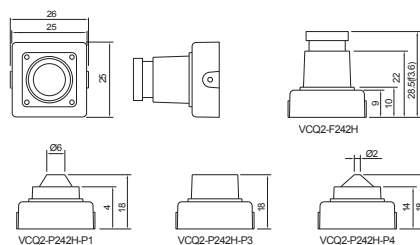
VCQ2-242H



Features

- Supreme resolution of 700 TV Lines
- Sony 1/3" 960H Super HAD II Color CCD
- Min. Illumination of 0.0002Lux@Sense-up
- 3D-DNR(Digital Noise Reduction)
- F-DNR(Fog Digital Noise Reduction)
- 256x Sens-up, D-WDR
- HLM(High Light Masking), OSD(Option)
- Digital Zoom, 8 Privacy Zones, Motion Detection
- World Smallest size of miniature camera

Dimensions (Unit :mm)



Specifications

Model	VCQ2-242H	
Image Device	1/3" 960H SONY Super HAD CCD II	
Scanning System	2:1 Interlace	
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	
H. Resolution	700TV Lines	
Total Pixels	NTSC : 1020(H) x 508(V), PAL : 1020(H) x 596(V)	
Effective pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	
S/N Ratio	More than 50dB (AGC OFF)	
Min Illumination	0.0002Lux@Sense-up	
Sync system	Internal	
Video Output	1.0 Vpp Composite (75Ω)	
Lens	Fixed Lens, Pinhole Lens	
Day&Night System	Digital D&N	
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	
OSD Function (option)	LENS	Manual/ DC
	EXPOSURE	SHUTTER, AGC, SENSUP
	WHITE BALANCE	ATW, AWB, AWC->SET, MANUAL
	BACKLIGHT	OFF, DWDR, BLC, HSBL
	DWDR	OFF, ON (Level adjustable)
	DNR	SMART DNR OFF, ON (Level adjustable)
	DAY & NIGHT	AUTO, EXT, B/W(IR SMART), COLOR
	MOTION DETECTION	OFF, ON (4 AREAS)
	PRIVACY	OFF, ON (8 AREAS)
	CAMERA ID	0-9, A-Z, Special Character
LANGUAGE	English, Korean, Japanese, Chinese, Russian, French, Spanish, Italian, Portuguese, Dutch, German, Polish, Turkish, Hebrew, Arabic	
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	
Humidity	Less than 80%	
Power Consumption	DC12V(±10%), Max.110mA	
Dimension	25(W) x 25(H) mm	
Weight	Approx. 72g(0.1lb)	

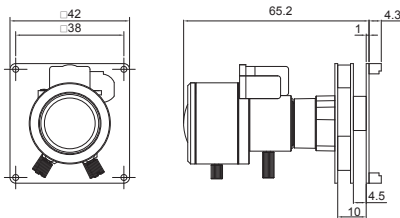
VCB-630DM



Features

- 3.1 Megapixel Ultra resolution Image (2048 X 1536)
- 1/2.8" Sony 3.14Mega Pixel Image Sensor
- High Quality of compression algorithm(H.264/MPEG4/MJPEG)
- Max. 5-20FPS @ Any Resolution
- Web server built-in
- ONVIF Ver 2.0 support
- 3rd party CMS & cell phone support
- Multi connection : 10 users
- True Day & Night with ICR Mechanism
- D-WDR(Wide Dynamic Range compensation)
- 2D-Digital Noise Reducer(DNR)
- Motion detection, Privacy mask, 6x Sens-up, Digital Zoomv

Dimensions (Unit :mm)



Specifications

Model	VCB-630DM	
Camera	Image Device	Sony 3.14Mega Pixel Image Sensor
	Scanning System	Progressive Scan
	Total Pixels	2144(H) x 1588(V) approx. 3.40 Mega Pixels
	Effective Pixels	2048(H) x 1536(V) approx. 3.14 Mega Pixels
	Min. Illumination	1.5 Lux (slow frame : 0.4 Lux)
	Lens	Fixed, DC Auto IRIS Varifocal
	Day & Night System	Digital D&N, True D&N in ICR (Mechanism Filter Mountable)
Video	Electronic Shutter	1/15~1/10,000 sec
	Algorithmr	H.264 / MPEG4 / MJPEG
	Resolution	QXGA, UGA, HD 1080, SXGA, etc. (All 8 resolution mode selectable)
	Frame Rate	MAX 20fps (@2048x1536)
	Bit rate	64 ~ 12000 Kbps selectable
Audio	Digital Output	1.0 Vpp Composite (75Ω), Pitch 2.0mm connector
	Algorithm	G.711 μ-law
	Sample rate	8KHz
	Bit rate	64Kbps
Network	Input	Line-in (Single Mono) : 1EA
	Output	Line-out (Single Mono) : 1EA
	Network Interface	Ethernet 10/100 Base-T (RJ-45)
Function	Network Protocol	TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS
	Day&Night	Day(Color) / Night(BW) / Auto (IR Cut Filter)
Sensor	Motion Detection	Adjustable
	Privacy Masking	Adjustable
	Sensor input	1 Input
Environment	Alarm output	1 Output (Digital Out, Open Collector)
	Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)
	Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)
	Humidity	Less than 80%
Power Consumption	DC12V(±10%), Max.230mA	
Dimension	42(W) x 42(H)mm , 3Board	

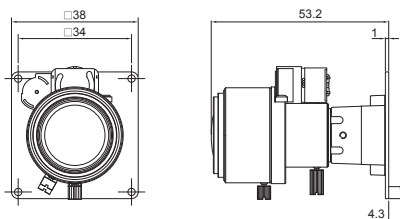
VCB-750W



Features

- Supream resolution of 700 TV Lines / Effio-P
- Sony 1/3" 960H Super HAD II Color CCD(Double Scan)
- Min. Illumination of 0.0002Lux@Sense-up
- Fixed iris OR DC auto iris lens
- 3D-DNR(3D Digital Noise Reduction)
- WDR(Wide Dynamic Range)
- 512x Sens-up
- HLM(High Light Masking), OSD
- Digital Zoom, 16 Privacy Zones, Motion Detection

Dimensions (Unit :mm)



Specifications

Model	VCB-750W	
Image Device	1/3" 960H Sony Super HAD CCD II (Double scan)	
Scanning System	2:1 Interlace	
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	
H. Resolution	700TV Lines	
Total Pixels	NTSC : 1028(H) x 508(V), PAL : 1028(H) x 596(V)	
Effective pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	
S/N Ratio	More than 50dB (AGC OFF)	
Min Illumination	0.0002Lux@Sense-up	
Sync system	Internal	
Video Output	1.0 Vpp Composite (75Ω)	
Lens	Fixed, DC Auto IRIS Varifocal	
Day&Night System	Dgital D&N, True D&N in ICR (Mechanism Filter Mountable)	
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	
OSD	LENS	Manual/ DC
	EXPOSURE	AGC, BRIGHTNESS, Digital Slow Shutter
	WHITE BALANCE	ATW, ONE PUSH, INDOOR, OUTDOOR, MANUAL, AUTO
	BACKLIGHT	HLC, BLC
	WDR	OFF, ON [Normal, Light, Full (Low, Midlow, Mid, Midhigh, High)]
	DNR	Low, Midlow, Mid, Midhigh, High
	DAY & NIGHT	AUTO(IR SMART), COLOR
	MOTION DETECTION	OFF, ON (3 AREAS)
	PRIVACY	OFF, ON (16 AREAS)
	CAMERA ID	0-9, A-Z, Special Character
LANGUAGE	English, Chinese, Korean	
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	
Humidity	Less than 80%	
Power Consumption	DC12V(±10%), Max.140mA	
Dimension	38(W) x 38(H)mm, 1Board	

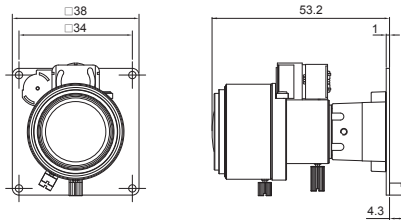
VCB-740H



Features

- Supreme resolution of 700 TV Lines / Refia-D
- Sony 1/3" 960H Super HAD II Color CCD
- Min. Illumination of 0.0002Lux@Sense-up
- Fixed iris or DC auto iris lens
- 3D-DNR(3D Digital Noise Reduction)
- F-DNR(Fog- Digital Noise Reduction)
- 256x Sens-up, D-WDR
- HLM(High Light Masking), OSD(Option)
- Digital Zoom, 8 Privacy Zones, Motion Detection

Dimensions (Unit :mm)



Specifications

Model	VCB-740H	
Image Device	1/3" 960H SONY Super HAD CCD II	
Scanning System	2:1 Interlace	
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	
H. Resolution	700TV Lines	
Total Pixels	NTSC : 1020(H) x 508(V), PAL : 1020(H) x 596(V)	
Effective pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	
S/N Ratio	More than 50dB (AGC OFF)	
Min Illumination	0.0002Lux@Sense-up	
Sync system	Internal	
Video Output	1.0 Vpp Composite (75Ω)	
Lens	Fixed, DC Auto IRIS Varifocal	
Day&Night System	Digital D&N, True D&N in ICR	
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	
OSD	LENS	Manual/ DC
	EXPOSURE	SHUTTER, AGC, SENSUP
	WHITE BALANCE	ATW, AWB, AWC->SET, MANUAL
	BACKLIGHT	OFF, DWDR, BLC, HSBLC
	DWDR	OFF, ON (Level adjustable)
	DNR	SMART DNR OFF, ON (Level adjustable)
	DAY & NIGHT	AUTO, EXT, B/W(IR SMART), COLOR
	MOTION DETECTION	OFF, ON (4 AREAS)
	PRIVACY	OFF, ON (8 AREAS)
	CAMERA ID	0-9, A-Z, Special Character
LANGUAGE	English, Korean, Japanese, Chinese, Russian, French, Spanish, Italian, Portuguese, Dutch, German, Polish, Turkish, Hebrew, Arabic	
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	
Humidity	Less than 80%	
Power Consumption	DC12V(±10%), Max.170mA	
Dimension	38(W) x 38(H) mm, 1Board	

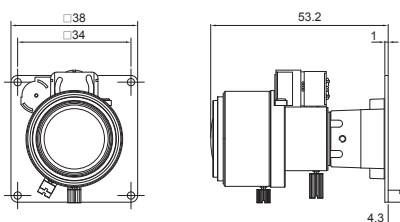
VCB-720H



Features

- Supreme resolution of 700TV-Line / Effio-E
- 1/3" 960H EXview HAD CCD II
- Fixed iris or DC auto iris lens
- ATR (Adaptive Tone-Curve Reproduction),
- DNR, Smart IR, HLM, Motion Detection
- 4 Privacy Zones

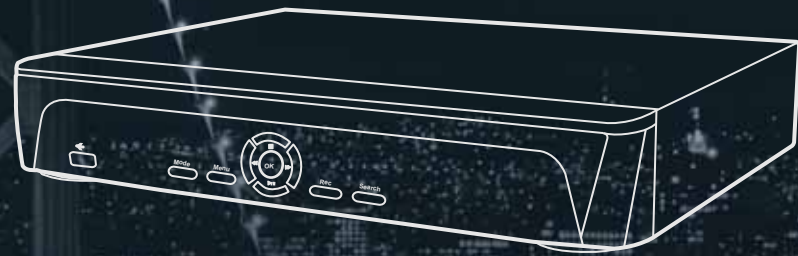
Dimensions (Unit :mm)



Specifications

Model	VCB-720H	
Image Device	1/3" SONY EXview HAD CCD II	
Scanning System	2:1 Interlace	
Scanning Frequency	NTSC : 59.94Hz(V), PAL : 50Hz(V)	
H. Resolution	700TV Lines	
Total Pixels	NTSC : 1020(H) x 508(V), PAL : 1020(H) x 596(V)	
Effective pixels	NTSC : 976(H) x 494(V), PAL : 976(H) x 582(V)	
S/N Ratio	More than 50dB (AGC OFF)	
Min Illumination	0.1Lux @ 30IRE, F2.0	
Sync system	Internal	
Video Output	1.0 Vpp Composite (75Ω)	
Lens	Fixed, DC Auto IRIS Varifocal	
Day&Night System	Digital D&N, True D&N in ICR	
Electronic Shutter	NTSC : 1/60~1/100,000sec, PAL : 1/50~1/100,000sec	
OSD	LENS	Manual/ DC
	EXPOSURE	SHUTTER, AGC
	WHITE BALANCE	ATW, PUSH, USER1, USER2, ANTI CR, MANUAL, PUSH LOCK
	BACKLIGHT	OFF, BLC, HLC
	DWDR	OFF, ON (Level adjustable)
	DNR	OFF, ON (Level adjustable)
	DAY & NIGHT	Auto / Color / BW(IR Smart) / EXT
	MOTION DETECTION	OFF, ON (4 AREAS)
	PRIVACY	OFF, ON (4 AREAS)
	CAMERA ID	0-9, A-Z, Special Character
LANGUAGE	English/ Japanese/ German/ French/ Russian/ Portuguese/ Spanish/ Chinese	
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)	
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)	
Humidity	Less than 80%	
Power Consumption	DC12V(±10%), Max.130mA	
Dimension	38(W) x 38(H) , 1Board	

DVR & SPECIAL CAMERA



VER-H4012, VFR-H8012, VTR-H4000/H8012/H1612

VER-H4012



VTR-H4000/H8012/H1612



VFR-H8012



Specifications

Model	VER-H4012	VFR-H8012	VTR-H4000	VTR-H8012	VTR-H1612
Compression Algorithm	Video : H.264, Audio : G726				
Operating System	Embedded Linux				
Multi-Operation	Pentaplex (Live, Recording, Playback, Backup, Network)				
Video Input	Channel	4CH	8CH	4CH	8CH
	Signal	HD SDI (1080p)			
Video Out	HDMI	HDMI * 1			
	VGA	VGA * 1			
	Composite	Composite * 1			
Spot Out	VGA	VGA * 1			
	BNC	BNC * 1			
Audio	Input	1		4	
	Output	2 (HDMI, RCA)			
Interface	USB 2.0, RS-485	2 x USB, 1 x RS-485			
	E-SATA	E-SATA * 1			
	Ethernet	Ethernet * 1			
	Sensor Input	1		4	
	Alarm Output	1		4 (2 x Relay, 2 x TTL)	
	SATA	1 x SATA HDD (1 HDD supports over 3TB)		Max.4 x SATA HDD or 2 x SATA HDD + 1 x ODD (1 HDD supports over 3TB)	
Live	Resolution	1920 x 1080, 1280 x 720			
	Display Mode	1, 4			
	Digital Zoom	Up to x 10 times			
Recording	Speed & Resolution	Total 60/50FPS(NTSC/PAL) @ 1080P or 120/100FPS(NTSC/PAL) @ 720P			
	Mode	Manual / Continuous / Schedule / Motion / Sensor & Pre/Post, Panic			
Playback & Backup	Speed	Fast Forward/Backward, Step Forward/Backward			
	Search	Search by Time, Calendar, Events and First/Last Search, Preview, Thumbnail			
	Backup Device	USB Memory Stick/HDD, DVD-RW & Network by Network			
Events & Alarm	Backup File Format	AVI (With or Without Timestamp), PS (Playback in Backup-Viewer)			
		Email&FTP Notification / Alarm-out / Buzzer for Events & Video Loss			
		Warning Message & Buzzer for HDD Over-Temperature			
		Alarm & Email Notification-Schedule for Events-Triggering			
Network	Transmission	Video Dual-Stream (Local recording & Network Transmission)			
		Video Resolution & Frame rates adjustable			
		Bandwidth adjustable (64/128/256/512Kbps, 1/2/4/10Mbps, Unlimited)			
	C.M.S	6 Monitors, Live, Event Manager, E-Map, Playback, Backup, PTZ, DVR Setup			
	Web (I.E)	Live Monitoring, Playback, Snapshot and PTZ Control			
Smart Phone	iPhone, Android				
Operation	USB Mouse, IR Remote Control				
Power	DC12V, 3.5A			DC12V, 6.67A	
Storage Temperature & Humidity	-20~60 °C / 20~95% RH				
Operating Temperature & Humidity	5~40 °C / 20~80% RH				
Dimension (WxDxH)	340 x 253 x 60mm			380 x 342 x 67mm	
	Packing : 374 x 383 x 126mm			Packing: 450 x 425 x 170mm	

(*) Specification is subject to change without prior notice

VFS-0412/0824/1648, VHS-0824/1648

VFS-0412/0824/1648



VHS-0824/1648



Specifications

Model		VFS-0412	VFS-0824	VFS-1648	VHS-0824	VHS-1648
Compression Algorithm		Video : H.264, Audio : G723				
HDD Bay	Internal	1 x SATA HDD (Max. 2TB)			4*SATA HDD (or 3*SATA HDD + 1*ODD), Max. 8TB(2TB/HDD)	
	External	2*USB 2.0 (Max. 2*USB-HDD for Backup)			4*USB 2.0 (Max. 4*USB-HDD for Extension, Mirroring & Backup)	
Operating System		Embedded Linux				
Multi-Operation		Pentaplex (Live, Recording, Playback, Backup, Network)				
Video	Input	4Ch	8Ch	16Ch	8Ch	16Ch
	Loop-Out	X	X	X	8Ch	16Ch
Video Out	Monitor	1 x Composite(BNC, 1 Vp-p, 75 Ohm) & 1 x VGA			1 x Composite, 1 x VGA & 1 x Spot Monitor	
	VGA Resolution	VGA Resolution : 800x600, 1024x768 & 1280x1024 (Selectable)				
Live Display Modes		1, 4 & PIP	1, 4, 9 & PIP, POP	1, 4, 9, 16 & PIP, POP	1, 4, 9 & PIP, POP	1, 4, 9, 16 & PIP, POP
Audio Input / Output		1 In / 1 Out			8 In / 1 Out	16 In / 1 Out
Sensor Input / Alarm Output		1 In / 1 Out			8 In / 4 Out	16 In / 4 Out
Port		2*USB 2.0(Mouse/Memory Stick/HDD), 1*RS-485(PTZ)			4*USB 2.0(Mouse/Memory Stick/HDD), 2*RS-485(PTZ), 1*RS-232	
LAN		10/100 Base-Tx Ethernet (RJ45) – Static / DHCP / DDNS				
Recording Speed (NTSC/PAL)	352x240/288(CIF)	120/100 fps	240/200 fps	480/400 fps	240/200 fps	480/400 fps
	704x240/288(2CIF)	120/100 fps	240/200 fps	240/200 fps	240/200 fps	480/100 fps
	704x480/576(D1)	120/100 fps	120/100 fps	120/100 fps	240/200 fps	240/200 fps
Recording Modes		Continuous, Schedule, Sensor-Activated & Motion Detection Recording Pre-Alarm(0-30 Sec.) & Post-Alarm(0-120 Sec), Emergency Recording				
Playback & Backup	Speed	Fast Forward/Backward(x1, x8, x32, x64, x128), Step Forward/Backward				
	Search	Intelli-Search by Time, Calendar, Events and First/Last Search				
	Backup Device	USB Memory Stick, USB HDD & Network by CMS				
Events & Alarm	Backup File	AVI (With or Without Timestamp), PS (Playback in Backup-Viewer)				
	Events & Alarm	Email Notification / Alarm-out / Buzzer for Events & Video Loss				
		Warning Message & Buzzer for HDD Over-Temperature				
Network	Transmission	Alarm & Email Notification-Schedule for Events-Triggering				
		Video Dual-Stream (Local recording & Network Transmission)				
	C.M.S	Video Resolution & Frame rates adjustable				
		Bandwidth adjustable (64/128/256/512Kbps, 1/2/4/10Mbps, Unlimited)				
Web (I.E)	6 Monitors, Live, Event Manager, E-Map, Playback, Backup, PTZ, DVR Setup					
Other Functions		Live Monitoring, Playback, Snapshot and PTZ Control				
Operation		Front Key Buttons, USB Mouse, IR Remote Control			HDD Mirroring & HDD Extension with USB HDD (4 USB Ports)	
Power		DC12V, 3.3A			DC12V, 6.67A	
Storage Temperature and Humidity		-20~60 °C / 20~95% RH				
Operating Temperature and Humidity		5~40 °C / 20~80% RH				
Dimension (WxDxH)		340 x 253 x 60, Packing: 374 x 383 x 126mm			430 x 385 x 87, Packing: 510 x 475 x 215mm	
Certification		CE, FCC, MIC & RoHS				

(*) Specification is subject to change without prior notice

VCH-P250H, VCH-P772H, VCE-P250H

VCH-P250H



VCH-P772H



VCE-P250H



Features

Model : VCH-P250H

- High resolution of 550TV Lines
- Min.Illumination of 0.2 Lux
- Sony 1/3" Super HAD CCD II
- f=4.3mm Super Cone Pinhole Lens
- Auto Gain Control
- Auto Tracking White Balance
- Auto Back Light Compensation
- Dimension : 62mm x 48mm x 110mm
- Option : Digital D&N, Audio, Mirror Mode

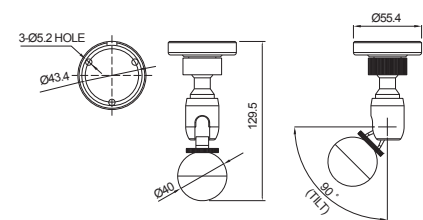
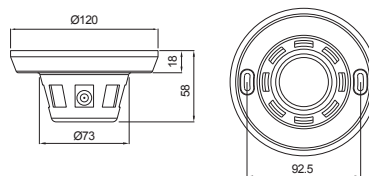
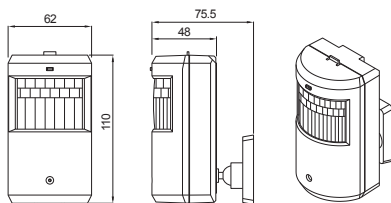
Model : VCH-P772H

- High resolution of 550TV Lines
- Min.Illumination of 0.2 Lux
- Sony 1/3" Super HAD CCD II
- f=3.7mm Cone Pinhole Lens
- Auto Gain Control
- Auto Tracking White Balance
- Auto Back Light Compensation
- Dimension : 120(Ø)mm x 58mm
- Option : Digital D&N, Audio, Mirror Mode

Model : VCE-P250H

- High resolution of 550TV Lines
- Min.Illumination of 0.2 Lux
- Sony 1/3" Super HAD CCD II
- f=4.3mm Super Cone Pinhole Lens
- Auto Gain Control
- Auto Tracking White Balance
- Auto Back Light Compensation
- Die-Casting Aluminum Dome Housing
- Dimension : 40(Ø)mm Ball size
- Option : Digital D&N, Mirror Mode

Dimensions (Unit :mm)



Specifications

Model	VCH-P250H	VCH-P772H	VCE-P250H
Image Device	1/3" Sony Super HAD CCD II		
Scanning System	2:1 Interlace		
Scanning Frequency	NTSC : 15.734KHz(H), 59.94Hz(V)		
	PAL : 15.625KHz(H), 50Hz(V)		
H. Resolution	550TV Lines		
Total Pixels	NTSC : 811(H) x 508(V), PAL : 795(H) x 596(V)		
Effective pixels	NTSC : 768(H) x 494(V), PAL : 752(H) x 582(V)		
S/N Ratio	More than 48dB (AGC OFF)		
Min Illumination	0.2Lux/ F2.0		
Sync system	Internal		
Gamma	$\gamma = 0.45$		
Video Output	1.0 Vpp Composite (75Ω)		
Lens	Super Cone Pinhole Lens (f=4.3)	Cone Pinhole Lens (f=3.7)	Super Cone Pinhole Lens (f=4.3)
Electronic Shutter	NTSC : 1/60 ~ 1/100,000sec, PAL : 1/50 ~ 1/100,000sec		
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)		
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)		
Humidity	Less than 80%		
Power Consumption	DC12V(±10%), Max.90mA	DC12V(±10%), Max.120mA	DC12V(±10%), Max.90mA
Dimension	62(w) x 110(H) x 48(D)mm	Ø120 x 28mm	Ø40mm Ball size
Weight	Approx. 475g (1.0lb)	Approx. 300g (0.7lb)	Approx. 150g (0.3lb)

Fixed lens (Board Mount)

	VLB-0245	VLB-0297	VLB-0360	VLB-0430	VLB-0600	VLB-0800	VLB-1200
Model							
Format	1/3" 1/4"	1/3" 1/4"	1/3" 1/4"	1/3" 1/4"	1/3" 1/4"	1/3" 1/4"	1/3" 1/4"
Focal Length	2.45	2.97	3.6	4.3	6	8	12
Back Focal Length	5.52	6.1	5.96	6.3	6.4	8.5	9.2
Aperture	F2.0	F2.0	F2.0	F2.0	F2.0	F2.0	F2.0
Angle of View	150°(1/3"), 110°(1/4")	130°(1/3"), 95°(1/4")	92°(1/3"), 73°(1/4")	78°(1/3"), 61°(1/4")	53°(1/3"), 38°(1/4")	40°(1/3"), 30°(1/4")	28°(1/3"), 19°(1/4")
Lens Construction	6 - 6	4 - 4	4 - 4	4 - 4	4 - 4	4 - 4	3 - 3
Dimension(Ø x L)mm	17 x 19	14.5 x 15	14 x 15.2	14 x 16	14 x 13.7	14 x 14	14 x 11.3

※ Mega Lens (Fixed)

	VLP1-0370	VLP3-0370	VLP4-0430	VLP-P178	VLBM-370	VLBM-430	VLBM-600
Model							
Format	1/3" 1/4"	1/3" 1/4"	1/3" 1/4"	1/3" 1/4"	1/3" 1/4"	1/3" 1/4"	1/3" 1/4"
Focal Length	3.7	3.7	4.3	1.78	3.7	4.3	6
Back Focal Length	3.3	3.3	3.51	6.79	6.45	7.55	8.31
Aperture	F2.0	F2.0	F2.0	F3.0	F2.5	F2.5	F2.5
Angle of View	90°	90°	90°	170°	106°	91°	64.5°
Lens Construction	4 - 4	4 - 4	4 - 4	8 - 8	1 - 1	4 - 4	1 - 1
Dimension(Ø x L)mm	12 x 7.3	12 x 7.3	12 x 7.3	31 x 24.66	14 x 16.2	14 x 16	14 x 13.67

Varifocal Lens(Board Mount)

※ Mega Lens (Varifocal)

	VLVB-4090DN	VLVB-2812DN	VLVB-9022DN	VLVB-5050DN	VLVBM-2812DN	VLVBM-3516DN	VLVBM-5050DN
Model							
Format	1/3" 1/4"	1/3" 1/4"	1/3" 1/4"	1/3" 1/4"	1/3"	1/3"	1/3" 1/4"
Focal Length	4 - 9	2.8 - 12	9 - 22	5 - 50	2.8 - 12	3.5 - 16	5 - 50
Back Focal Length	6.75 - 11.96	5.94 - 16.69	6.71 - 14.54	5.81 - 9.25	5.8 - 14.3	6.31 - 17.17	6.01 - 11.05
Iris Type	IR Cut Filter / Auto	IR Cut Filter / Auto	IR Cut Filter / Auto	Direct Drive	IR Cut Filter / Auto	IR Cut Filter / Auto	IR Cut Filter / Auto
Aperture	F1.6 - 360	F1.4 - 360	F1.6 - 360	F1.4 - 360	F1.0 - 360	F1.2 - 360	F1.4 - 360
Dimension(Ø x L)mm	29 x 38	29 x 43.5	24.8 x 40.5	30 x 50.62	29 x 45	28.5 x 46.5	30 x 50.5

Varifocal Lens (C/CS Mount)

※ Mega Lens (C/CS Mount)

	VLVC-2812D	VLVC-3080D	VLVC-4016D	VLVC-5050D	VLVC-5050M	VLVC-M3090D	VLVC-M1600M
Model							
Format	1/3" 1/4"	1/3" 1/4"	1/3" 1/4"	1/3" 1/4"	1/3" 1/4"	1/2.7" 1/3"	1/3" 1/4"
Focal Length	2.8 - 12	3 - 8	4 - 16	5 - 50	5 - 50	3 - 9	16
Back Focal Length	9.75 - 20.46	8.7 - 14.37	8.7 - 14.37	9.8 - 11.7	9.8 - 11.7	8.7 - 14.37	16.9 - Close
Iris Type	Direct Drive	Direct Drive	Video Drive	Direct Drive	Manual	Direct Drive	Manual
Aperture	F1.4 - 360	F1.4 - 360	F1.4 - 360	F1.4 - 360	F1.4 - Close	F1.6 - 360	F1.4 - 360
Dimension(Ø x L)mm	44 x 65	44 x 65	34 x 61.2	44 x 65	44 x 65	58.05 x 38	50.6 x 36.5

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