Support(OK)	Support (NG) (ing)
Not Support(X)	To Be Defined (TBD)

VISCA COMMAND Protocol

	Command Set	Command	Command Packet	Comments
0_1	AddressSet	Broadcast	88 30 0p FF	Address setting , p : address (1~7)
0_2	IF_Clear	Broadcast	88 01 00 01 FF	I/F Clear
0_3	CommandCancel	-	8x 2p FF	p: Socket No. (1or 2)
0	CAM_Power	On	8x 01 04 00 02 FF	Normal Operating Mode
		Off	8x 01 04 00 03 FF	Standby mode
		Reboot	8x 01 04 00 10 FF	Camera Reboot
1	CAM_Zoom	Stop	8x 01 04 07 00 FF	
		Tele(Standard)	8x 01 04 07 02 FF	
		Wide(Standard)	8x 01 04 07 03 FF	
		Tele(Variable)	8x 01 04 07 2p FF	p = 0(Slow) to 7(Fast)
		Wide(Variable)	8x 01 04 07 3p FF	p = 0(Slow) to 7(Fast)
		Direct	8x 01 04 47 0p 0q 0r 0s FF	pqrs : Optical Zoom Position (0x0000 ~ 0x4000) + Dzoom ON position (0x4000 ~ 0x7AC0)
1_1 (NEW)	CAM_ZoomPreset	Set	8x 01 04 67 01 0p FF	p : Zoom preset number (0 to 4)
		Run	8x 01 04 67 02 0p FF	p : Zoom preset number (0 to 4)
		Clear	8x 01 04 67 03 0p FF	p : Zoom preset number (0 to 4, Fh : ALL)
2	CAM_Dzoom	On	8x 01 04 06 02 FF	Digital Zoom ON
		Off	8x 01 04 06 03 FF	Digital Zoom OFF
		Combine Mode	8x 01 04 36 00 FF	Optical/Digital Zoom Combined
		Separate Mode	8x 01 04 36 01 FF	Optical/Digital Zoom Separated
		Stop	8x 01 04 06 00 FF	
		Tele(Variable)	8x 01 04 06 2p FF	p=0(Slow) to 7 (Fast) * Enabled during Separate Mode
		Wide(Variable)	8x 01 04 06 3p FF	
		x1/Max	8x 01 04 06 10 FF	x1/MAX Magnification Switchover * Enabled during Separate Mode
		Direct	8x 01 04 46 00 00 0p 0q FF	pq : D-Zoom Position (0x00 ~ 0xEB) * Enabled during Separate Mode
3	CAM_Focus	Stop	8x 01 04 08 00 FF	
		Far(Standard)	8x 01 04 08 02 FF	
		Near(Standard)	8x 01 04 08 03 FF	
		Far(Variable)	8x 01 04 08 2p FF	p = 0 (Slow) to 7(Fast)
		Near(Variable)	8x 01 04 08 3p FF	p = 0 (Slow) to 7(Fast)
		Auto Focus	8x 01 04 38 02 FF	Auto AF Mode
		Manual Focus	8x 01 04 38 03 FF	Manual AF Mode
		Auto/Onepush	8x 01 04 38 10 FF	Auto or OnePush AF Mode toggle
		One Push Trigger	8x 01 04 18 01 FF	One Push AF Trigger
		Infinity	8x 01 04 18 02 FF 8x 01 04 18 03 FF	ON (do AF Over 10M) OFF(do AF between Near Limit with Infinity)
4	CAM_AF Sensitivity	Normal	8x 01 04 58 02 FF	AF Sensitivity Normal
		Low	8x 01 04 58 03 FF	AF Sensitivity Low
5	CAM_AFMode	Normal AF	8x 01 04 57 00 FF	Auto AF Mode
		Interval AF	8x 01 04 57 01 FF	Interval AF Mode
		Zoom Trigger AF	8x 01 04 57 02 FF	OnePush Af Mode
		Interval Time	8x 01 04 27 0p 0q 0r 0s FF	pq : Active time < Not Support > rs : Interval time (0 ~ 255)
7	CAM_ZoomFocus	Direct	8x 01 04 47 0p 0q 0r 0s 0t 0u 0v 0w FF	pqrs : Zoom Position tuvw : Focus Position
8	CAM_Initialize	Lens	8x 01 04 19 01 FF	Lens Initialization Start
		Camera	8x 01 04 19 03 FF	Camera Menu reset
9	CAM_WB	Auto	8x 01 04 35 00 FF	Normal auto mode
		One Push AWB	8x 01 04 35 03 FF	One push AWB mode (= AWB Preset mode)
		Auto(EXT)	8x 01 04 35 04 FF	Auto extended mode
		Manual	8x 01 04 35 05 FF	Manual mode
		One Push Trigger	8x 01 04 10 05 FF	One Push WB Trigger * Enabled during One Push AWB mode
10	CAM_Rgain	Reset	8x 01 04 03 00 FF	Manual Control of R-Gain
		Up	8x 01 04 03 02 FF	
		Down	8x 01 04 03 03 FF	
		Direct	8x 01 04 43 00 00 0p 0q FF	pq : R-gain Position (0 ~ 14h)
11	CAM_Bgain	Reset	8x 01 04 04 00 FF	Manual Control of B-Gain
		Up	8x 01 04 04 02 FF	
		Down	8x 01 04 04 03 FF	
		Direct	8x 01 04 44 00 00 0p 0q FF	pq : B-gain Position(0 ~ 14h)

12	CAM_AE	Full Auto	8x 01 04 39 00 FF	Auto exposure mode
		FlickerLess ON	8x 01 04 39 01 FF	FlickerLess ON
		FlickerLess OFF	8x 01 04 39 02 FF	FlickerLess OFF
		Manual	8x 01 04 39 03 FF	Manual control mode
		Shutter Priority	8x 01 04 39 0A FF	Shutter Priority Automatic Exposure mode
		Iris Priority	8x 01 04 39 0B FF	Iris Priority Automatic Exposure mode
13	CAM_SlowShutter	ON	8x 01 04 5A 02 FF	On(x2)
		OFF	8x 01 04 5A 03 FF	Off
		Level	8x 01 04 5A 1p FF	p : 0(x32), 1(x16), 2(x8), 3(x4), 4(x2)
14	CAM_Shutter	Reset	8x 01 04 0A 00 FF	Shutter setting
		Up	8x 01 04 0A 02 FF	
		Down	8x 01 04 0A 03 FF	
		Direct	8x 01 04 4A 00 00 0p 0q FF	pq : Shutter Position (pq: 0x05~0x0F) 5~F : 1/30 ~ 1/30000
15	CAM_Iris	Reset	8x 01 04 0B 00 FF	Iris Setting (0 ~11h) * Used IRIS Manual mode
		Up	8x 01 04 0B 02 FF	
		Down	8x 01 04 0B 03 FF	
		Direct	8x 01 04 4B 00 00 0p 0q FF	pq : Iris Position
16	CAM_Gain	Reset	8x 01 04 0C 00 FF	Gain Setting
		Up	8x 01 04 0C 02 FF	
		Down	8x 01 04 0C 03 FF	
		Direct	8x 01 04 4C 00 00 0p 0q FF	pq : Gain Position (0x00 ~ 0x0A)
		Gain Limit	8x 01 04 2C pp FF	pq : Gain Limit Position (0x00 ~ 0x0A)
17	CAM_Bright	Reset	8x 01 04 0D 00 FF	Bright setting
		Up	8x 01 04 0D 02 FF	
		Down	8x 01 04 0D 03 FF	
		Direct	8x 01 04 4D 00 00 0p 0q FF	pq : Bright Position (0 ~ 14h)
19	CAM_BackLight	ON	8x 01 04 33 02 FF	Backlight Compensation ON
		OFF	8x 01 04 33 03 FF	Backlight Compensation OFF
19_1	CAM_BackLightFunc	Display On	8x 01 04 3C 0p FF	OSD Display , p : 2 ON , 3 : OFF
	(Extended Options)	X Start Position	8x 01 04 3C 10 00 0p 0p FF	pp : 0x00 ~ 0x13
		Y Start Position	8x 01 04 3C 20 00 0p 0p FF	pp : 0x00 ~ 0x12
		X Size	8x 01 04 3C 30 00 0p 0p FF	pp : 0x00 ~ 0x13
		Y Size	8x 01 04 3C 40 00 0p 0p FF	pp : 0x00 ~ 0x12
21	CAM_WD	On	8x 01 04 3D 02 FF	Wide dynamic range ON
		Off	8x 01 04 3D 03 FF	Wide dynamic range OFF
		Set Parameter	8x 01 04 2D 00 00 00 0s 00 00 00 00 FF	s : WDR Weight (0 ~ 2) (0 : LOW, 1 : MIDDLE, 2 : HIGH)
		Level	8x 01 04 7D 0p FF	p : 0(low) 1(middle) 2(high)
22	CAM_Aperture	Reset	8x 01 04 02 00 FF	Aperture(Sharpness) control
		Up	8x 01 04 02 02 FF	
		Down	8x 01 04 02 03 FF	
		Direct	8x 01 04 42 00 00 0p 0q FF	q: Aperture(Sharpness) gain (q: 0 ~ Ah)
23	CAM_HR	On	8x 01 04 52 02 FF	High-Resolusion Mode ON/OFF
		Off	8x 01 04 52 03 FF	
24	CAM_NR	Mode	8x 01 04 53 0p FF	p : 3DNR Setting (0 ~ 3) (0:OFF, 1:LOW, 2:MIDDLE, 3:HIGH)
25	CAM_GAMMA	Direct	8x 01 04 5B 0p FF	p : Gamma setting (0:0.45 to 3:0.75)
27	CAM_LR Reverse	On	8x 01 04 61 02 FF	Mirror image ON/OFF
		Off	8x 01 04 61 03 FF	
28	CAM_Freeze	On	8x 01 04 62 02 FF	Freeze picture ON/OFF
		Off	8x 01 04 62 03 FF	
30	CAM_PictureFlip	On	8x 01 04 66 02 FF	Picture reverse ON/OFF
		Off	8x 01 04 66 03 FF	
31	CAM_ICR	On	8x 01 04 01 02 FF	Night mode
		Off	8x 01 04 01 03 FF	Day mode
32	CAM_AutoICR	On	8x 01 04 51 02 FF	ICR Auto mode : On (Save ICR Mode before change)
		Off	8x 01 04 51 03 FF	ICR Auto mode : Off (Road ICR Mode before change) -current mode(Color) : On(Auto) <=> Off(Color) -current mode(BW) : On(Auto) <=> Off(BW) * If there is no saved ICR Mode, Change to color
		ND Threshold	8x 01 04 21 00 00 0p 0q FF	pq : ICR ON => OFF Threshold Level (Night => Day)
		DN Threshold	8x 01 04 41 00 00 0p 0q FF	pq : ICR OFF => ON Threshold Level (Day => Night)
		External_DN	8x 01 04 51 05 FF	Day&Night ICR is changed by external input
		Delay	8x 01 04 41 10 00 0p 0q FF	pq : 1 ~ 50 Sec
33	CAM_AutoICRAlarmReply	On	8x 01 04 31 02 FF	Auto ICR switching Alarm ON
		Off	8x 01 04 31 03 FF	Auto ICR switching Alarm OFF
		(Reply)	y0 07 04 31 02 FF	ICR OFF => ON (Night => Day)
			y0 07 04 31 03 FF	ICR ON => OFF (Day => Night)
34	CAM_MemSave <TBD>	Write	8x 01 04 23 0X 0p 0p 0q 0q FF	X : 00 ~ 07 (Address) total 16byte ppqq : 0x0000 to 0xFFFF(Data)

35	CAM_Display	On	8x 01 04 15 02 FF (8x 01 06 06 02 FF)	Display ON/OFF (Fuction OSD display) Function OSD : -Display item : Zoom Ratio, Camera ID , Addr Framerate
		Off	8x 01 04 15 03 FF (8x 01 06 06 03 FF)	
		On/Off	8x 01 04 15 10 FF (8x 01 06 06 10 FF)	
37	CAM_MultilineTitle	TitleSet1	8x 01 04 73 1L 0m nn pp qq 00 00 00 00 00 FF	L : Line Number (0x0 ~0xE) m : 0 (Normal mode : individual line set) 1 (Simple mode : integrated line set) nn : H-Position (0x0 ~0x29) pp : Color(00~02 : White,Gray,Yellow) qq : NORMAL = 00 BLINK = 01
		TitleSet2	8x 01 04 73 2L mm nn pp qq rr ss tt uu vv ww FF	L : Normal mode -Line Number (0x0 ~0xE) : Simple mode -Line Number (TitleSet1) m~w : Setting of characters (1 to 10) **Refer to Character Map #2**
		TitleSet3	8x 01 04 73 3L mm nn pp qq rr ss tt uu vv ww FF	L : Normal mode -Line Number (0x0 ~0xE) : Simple mode -Line Number (TitleSet1) m~w : Setting of characters (11 to 20) **Refer to Character Map #2**
		TitleSet4	8x 01 04 73 7L 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 FF	L : Normal mode -Line Number (0x0 ~0xE) : Simple mode -Line Number (TitleSet1) 01~30 : Setting of characters (1 to 30)
		Title Clear	8x 01 04 74 1p FF	Title Clear, Display On/Off p:0x0~0xE, F= all lines (line 0x0~0xE)
		On	8x 01 04 74 2p FF	
		Off	8x 01 04 74 3p FF	
37_1	Cam_UserOsd	Display String	8x 01 05 10 xx yy cc ss "nnnnnnnnnnnn" FF	xx : X position (0 ~0x29) display osd start position 0x00 display osd End Position 0x29 Added~~~ yy : Y Position(0 ~0xE) cc : Color(00~02 : White,Gray,Yellow) ss : NORMAL = 00 BLINK = 01 "nnnnn…." : Display String (Max 26 char) Refer to Character Map #1(Ww)
		Screen Clear	8x 01 05 30 01 FF	Screen all clear
39	CAM_Mute	On	8x 01 04 75 02 FF	Mute ON/OFF (Mute On : Black Screen)
		Off	8x 01 04 75 03 FF	
		On/Off	8x 01 04 75 10 FF	Mute On/Off Toggle
40	**CAM_PrivacyZone** <TBD>	SetMask	8x 01 04 76 mm nn 0r 0r 0s 0s FF	mm : Mask Setting nn : 00 (Modify) 01(New) rr : W (0x01 ~0x3C) , ss : H (0x01~0x22)
		Display	8x 01 04 77 00 pp pp pp FF	Mask Display ON/OFF , 16 EA Mask pp pp pp : Mask Settings(0:OFF,1:ON) Mask 16EA all set display on : 00 0F 3F 3F
		SetMaskColor	8x 01 04 78 00 00 00 00 qq 0r FF	qq : Color code r : Translucence Level (0 ~3) (0 : off , 1:Low , 2 MID , 3 High)
		SetPanTiltAngle	8x 01 04 79 0p 0p 0p 0q 0q 0q FF	Pan/Tilt Angle Settings ppp : Pan , qqq : Tilt
		SetPTZMask	8x 01 04 7B mm 0p 0p 0p 0q 0q 0q 0r 0r 0r FF	Pan/Tilt/Zoom Settings for Mask ppp : Pan , qqq : Tilt, rrrr : Zoom
		Non_InterlockMask	8x 01 04 6F mm 0p 0p 0q 0q 0r 0r 0s 0s FF	mm : Non_Interlock Mask Settings pp : X, q:Y, rr: W, ss: H
41	CAM_IDWrite	Camera ID set	8x 01 04 22 00 00 0p 0q FF	pqrs: Camera ID (0x00 to 0xFF)
42	CAM_MD	On	8x 01 04 1B 02 FF	Motion Detection ON
		Off	8x 01 04 1B 03 FF	Motion Detection OFF
		Function Set	8x 01 04 1C 0m 0n 0p 0q 0r 0s FF	m : Display mode (when motion is detected) bit0 : Motion window OSD display bit1 : Motion Alarm Signal out On/Off to GPIO bit2 : Text Osd display n : Detection Frame Set bit0(frame1) ~bit3(frame4) pq : Sensitivity (00 to 0a) rs : Interval Time set (00 to FF)
		Window Set	8x 01 04 1D 0m pp qq rr ss FF	m : Select Detection Frame (0~3) pp : Start Horizontal Position (00 to 3Ch) qq : Start Vertical Position (00 to 22h) rr : Stop Horizontal Position (00 to 3Ch) ss : Stop Vertical Position (00 to 22h)
		Alarm(Reply)	y0 07 04 1B 0p FF	p : Detected Motion WindowNumber (1~5) Win0 ~Win3 : 1 ~4 Multi Window : 5
43	CAM_Continuous ZoomPosReply	On	8x 01 04 69 02 FF	ZoomPosition data Continuous Output ON
		Off	8x 01 04 69 03 FF	ZoomPosition data Continuous Output OFF
		(Reply)	y0 07 04 69 0p 0p 0q 0q 0q 0q FF	pp : D-Zoom Position *00 : When Zoom Mode is Combine qqqq : Zoom Position
44	CAM_ZoomPosReply IntervalTimeSet		8x 01 04 6A 00 00 0p 0p FF	pp : Zoom Position continuous output Interval Time (0x01 ~0xFF)(Vertical timing)
45	CAM_Continuous FocusPosReply	On	8x 01 04 16 02 FF	Focus Position data Continuous Output ON
		Off	8x 01 04 16 03 FF	Focus Position data Continuous Output OFF
		(Reply)	yo 07 04 16 00 00 0p 0p 0p 0p FF	pppp : Focus Position

46	CAM_FocusPosReply IntervalTimeSet		8x 01 04 1A 00 00 0p 0p FF	pp : Focus Position continuous output Interval Time (0x01 ~0xFF)(Vertical timing)
47	CAM_ExtAutoICR Threshold	ICR ON => OFF	8x 01 04 1F 21 00 00 0p 0q FF	pq : ICR ON => OFF threshold when Auto ICR is on pq = 00 ~14h (Night => Day threshold)
		ICR OFF => ON	8x 01 04 1F 21 01 00 0p 0q FF	pq : ICR OFF => ON threshold when Auto ICR is on pq = 00 ~14h (Day => Night threshold)
48	CAM_RegisterValue		8x 01 04 24 mm 0p 0p FF	mm : Register No. (00 ~7F) pp : Register Value (00 ~7F) See the " Register setting "
48_1		VISCA Baud Rate	81 01 04 24 00 00 00 FF	9600bps (Default)
		mm : 00	81 01 04 24 00 00 01 FF	19200bps
			81 01 04 24 00 00 02 FF	38400bps
			81 01 04 24 00 00 03 FF	115200bps
			81 01 04 24 00 00 04 FF	57600bps
			81 01 04 24 00 00 05 FF	2400bps
			81 01 04 24 00 00 06 FF	4800bps
48_2		Monitoring Mode	81 01 04 24 72 00 01 FF	1080i/60
		mm : 72	81 01 04 24 72 00 02 FF	1080i/60
			81 01 04 24 72 00 04 FF	1080i/50
			81 01 04 24 72 00 06 FF	1080p/30
			81 01 04 24 72 00 07 FF	1080p/30
			81 01 04 24 72 00 08 FF	1080p/25
			81 01 04 24 72 00 09 FF	720p/60
			81 01 04 24 72 00 0A FF	720p/60
			81 01 04 24 72 00 0C FF	720p/50
			81 01 04 24 72 00 0E FF	720p/30
			81 01 04 24 72 00 0F FF	720p/30
			81 01 04 24 72 01 01 FF	720p/25
			81 01 04 24 72 01 03 FF	1080p/60
			81 01 04 24 72 01 04 FF	1080p/50
			81 01 04 24 72 01 05 FF	1080p/60
48_3		LVDS Mode	81 01 04 24 74 00 00 FF	Single output (Default)
			81 01 04 24 74 00 01 FF	Dual output
			81 01 04 24 74 00 02 FF	LVDS OFF
		E-Zoom Max limit mm : 52	81 01 04 24 52 0E 0B FF	Max. digital zoom ratio = 256 / (256-Value) (Default: EB)
48_4		Auto Slow shutter limit	81 01 04 24 56 00 01 FF	.1/30 (Default) -Sens-up OFF
		mm : 56	81 01 04 24 56 00 02 FF	.1/15
			81 01 04 24 56 00 03 FF	.1/8
			81 01 04 24 56 00 04 FF	.1/4
			81 01 04 24 56 00 05 FF	.1/2
			81 01 04 24 56 00 06 FF	.1/1
48_5		Language	81 01 04 24 60 00 00 FF	00 : English
		mm : 60	81 01 04 24 60 00 01 FF	01 : Russian
			81 01 04 24 60 00 02 FF	02 : Chinese (S)
			81 01 04 24 60 00 03 FF	03 : Chinese
			81 01 04 24 60 00 04 FF	04 : German
			81 01 04 24 60 00 06 FF	06 : Korean
			81 01 04 24 60 00 07 FF	07 : Japanese
48_6		CVBS scale	81 01 04 24 7C 00 00 FF	Ratio 4 : 3
		mm : 7C	81 01 04 24 7C 00 01 FF	Ratio 16 : 9
48_6		EX-SDI V1.0(Dyna)	81 01 04 24 7E 00 00 FF	OFF
		mm : 7E	81 01 04 24 7E 00 01 FF	ON
49	CAM_ColorGain	Direct	8x 01 04 49 00 00 0p 0q FF (8x 01 04 13 00 00 0p 0q FF)	pq : Color Gain setting (0 ~14h)
50	CAM_ColorHue <TBD>	Direct	8x 01 04 4F 00 00 00 0p FF	p : Color Hue setting (0 to Eh) -14 ~ 14 degree
51	CAM_Stablizer	On	8x 01 04 34 02 FF	Digital Image Stabilizer ON/OFF
		Off	8x 01 04 34 03 FF	
52	CAM_StablizerFunc	Direct	8x 01 04 54 00 0p FF	DIS_range (0(10%) ,1(20%),2(30%)
	(Extended Options)	Direct	8x 01 04 34 03 FF	DIS_Filter (0(low), 1(middle), 2(high)
		Direct	8x 01 04 34 00 FF	DIS_Auto_C(0(OFF),1(half),2(full))
53	CAM_Defog	On	8x 01 04 37 02 0p FF	Defog ON ,p : defog level (1 : Low , 2: middle, 3:high)
		Off	8x 01 04 37 03 00 FF	Defog OFF
54	CAM_HLC	Parameter Set	8x 01 04 14 0p 0q FF	p : HLC Level (0 : Off , 1 : On) q : HLC Mask level 0 ~A ,B(12),C(14),D(16),E(18),F(20)
54_1	CAM_HLC	On	8x 01 04 32 01 FF	HLC ON
	(Extended Options)	Off	8x 01 04 32 00 FF	HLC OFF
		Level	8x 01 04 32 10 00 0p 0q FF	p : HLC Mask Level (0 ~14h)
		Color	8x 01 04 32 3p FF	p : HLC Color Select (0: WHT, 1:YEL, 2:CYN, 3:GRN 4:MAG, 5:RED, 6:BLU, 7:BLK)
56	CAM_Memory preset	Reset	8x 01 04 3F 00 0p FF	p : Memory Number (0 to 9 , Fh : ALL Clear)
		Set	8x 01 04 3F 01 0p FF	p : Memory Number (0 ~9) (See. Memory Preset Setting Items)
		Recall	8x 01 04 3F 02 0p FF	

Support(OK)	Support (NG)(ing)
Not Support(X)	To Be Defined (TBD)

VISCA INQUIRY Protocol

	Inquiry Command	Command Packet	Inquiry Packet	Comment
0	CAM_PowerInq	8x 09 04 00 FF	y0 50 02 FF	On
			y0 50 03 FF	Off(Standby)
1	CAM_ZoomPosInq	8x 09 04 47 FF	y0 50 0p 0q 0r 0s FF	pqrs : Visca Zoom Position
1-1	CAM_ZoomPresetInq	8x 09 04 67 FF	Y0 50 00 00 0p 0q FF	pq : bit[0]:0 ~ bit[4]:4, (1:Set, 0:Unset)
2	CAM_DZoomModeInq	8x 09 04 06 FF	y0 50 02 FF	D-Zoom On
			y0 50 03 FF	D-Zoom Off
2_1	CAM_DZoomC/SModeInq	8x 09 04 36 FF	y0 50 00 FF	Combine Mode
			y0 50 01 FF	Separate Mode
2_2	CAM_DZoomPosInq	8x 09 04 46 FF	y0 50 00 00 0p 0q FF	pq : D-Zoom Position
3_1	CAM_FocusModeInq	8x 09 04 38 FF	y0 50 02 FF	Auto Focus
			y0 50 03 FF	Manual Focus
3_2	CAM_FocusPosInq	8x 09 04 48 FF	y0 50 0p 0q 0r 0s FF	pqrs : Focus Position
3_3	CAM_FocusNearLimitInq	8x 09 04 28 FF	y0 50 0p 0q 0r 0s FF	pqrs : Focus Near Limit Position
4	CAM_AFSensitivityInq	8x 09 04 58 FF	y0 50 02 FF	AF Sensitivity Normal
			y0 50 03 FF	AF Sensitivity Low
5	CAM_AFModeInq	8x 09 04 57 FF	y0 50 00 FF	Normal AF
			y0 50 01 FF	Interval AF
			y0 50 02 FF	Zoom Trigger AF(OnePush Af Mode)
5_1	CAM_AFTimeSettingInq	8x 09 04 27 FF	y0 50 0p 0q 0r 0s FF	pq : Not used, rs : Interval
6	CAM_IRCorrectionInq	8x 09 04 11 FF	y0 50 00 FF	Standard
			y0 50 01 FF	IR Light
7	CAM_ZoomFocusInq	INQ 없음		
8	CAM_Initialize	INQ 없음		
9	CAM_WBModeInq	8x 09 04 35 FF	y0 50 00 FF	AUTO
			y0 50 01 FF	In Door
			y0 50 02 FF	Out Door
			y0 50 03 FF	One Push WB
			y0 50 04 FF	ATW
			y0 50 05 FF	Manual
10	CAM_RGainInq	8x 09 04 43 FF	y0 50 00 00 0p 0q FF	pq : Rgain level (0 to 14)
11	CAM_BGainInq	8x 09 04 44 FF	y0 50 00 00 0p 0q FF	pq : Bgain level (0 to 14)
12	CAM_AEModeInq	8x 09 04 39 FF	y0 50 00 FF	Full Auto
			y0 50 03 FF	Manual
			y0 50 0A FF	Shutter Priority
			y0 50 0B FF	Iris Priority
			y0 50 0D FF	Bright
12	CAM_FlicklessInq	8x 09 04 40 FF	y0 50 0p FF	Flickerless Mode On (1), Off(2)
13	CAM_SlowShutterModeInq (Sens-up)	8x 09 04 5A FF	y0 50 02 FF	Slow Shutter Mode ON
			y0 50 03 FF	Slow Shutter Mode OFF
(New)	CAM_SlowShutterLevelInq (Sens-up)	8x 09 04 5A 10 FF	y0 50 0p FF	p : MaxDSSLevel (0 ~ 4) 0(x32), 1(x16), 2(x8), 3(x4), 4(x2) if slowshutter mode is off, return 0x05
14	CAM_ShutterPosInq	8x 09 04 4A FF	y0 50 00 00 0p 0q FF	pq : Shutter Position (5 ~ F) 0x05(1/30) ~ 0x0F(1/30000)
15	CAM_IrisPosInq	8x 09 04 4B FF	y0 50 00 00 0p 0q FF	pq : Iris Position (0 ~ 11h)
16	CAM_GainPosInq	8x 09 04 4C FF	y0 50 00 00 0p 0q FF	pq : Gain(AGC) Position (0 ~ A)
	CAM_GainLimitInq	8x 09 04 2C FF	y0 50 0p FF	p : Gain(AGC) Limit (0 ~ A)
17	CAM_BrightPosInq	8x 09 04 4D FF	y0 50 00 00 0p 0q FF	pq : Brightness Level (0 ~ 14h)
18	CAM_ExpCompModeInq	8x 09 04 3E FF	y0 50 02 FF	On
			y0 50 03 FF	Off
	CAM_ExpCompPosInq	8x 09 04 4E FF	y0 50 00 00 0p 0q FF	pq : ExpComp Position
19	CAM_BackLightModeInq	8x 09 04 33 FF	y0 50 02 FF	On
			y0 50 03 FF	Off
19_1	CAM_BLCArealnq	8x 09 04 3C 00 FF	y0 50 0p FF	OSD Display , p : 2 ON , 3 : OFF
(New)		8x 09 04 3C 10 FF	y0 50 00 00 0p 0q FF	pq : X Start Position
		8x 09 04 3C 20 FF	y0 50 00 00 0p 0q FF	pq : Y Start Position
		8x 09 04 3C 30 FF	y0 50 00 00 0p 0q FF	pq : X Size Position
		8x 09 04 3C 40 FF	y0 50 00 00 0p 0q FF	pq : Y Size Position
20	CAM_AE_ResponseInq	8x 09 04 5D FF	yo 50 pp FF	pp : 01 to 20(hex)
21	CAM_WDModeInq	8x 09 04 3D FF	y0 50 02 FF	On
			y0 50 03 FF	Off
	CAM_WDParameterInq	8x 09 04 2D FF	y0 50 00 00 00 0s 00 00 00 00 FF	s : WDR Weight (0 ~ 2) (0 : LOW, 1 : MIDDLE, 2 : HIGH)
	CAM_WDLevelInq	8x 09 04 7D FF	y0 50 0p FF	p :0 ~ 2 (Low , Mid , High)
22	CAM_ApertureInq	8x 09 04 42 FF	y0 50 00 00 0p 0q FF	pq : Aperture level (0 to A)
23	CAM_HRModeInq	8x 09 04 52 FF	y0 50 02 FF	On (Hi-Resolution)
			y0 50 03 FF	Off
24	CAM_NRModeInq	8x 09 04 53 FF	y0 50 0p FF	Noise Reduction p : 0 to 3 p : 0(off) 1(low) 2(middle) 3(high)
25	CAM_GammaInq	8x 09 04 5B FF	y0 50 0p FF	Gamma p:0 to 3 p : 0(0.45) 1(0.55) 2(0.65) 3(0.75)
26	CAM_HighSensitivityInq	8x 09 04 5E FF	y0 50 02 FF	On
			y0 50 03 FF	Off

27	CAM_LR_ReverseModeInq	8x 09 04 61 FF	y0 50 02 FF	On
			y0 50 03 FF	Off
28	CAM_FreezeModeInq	8x 09 04 62 FF	y0 50 02 FF	On
			y0 50 03 FF	Off
29	CAM_PictureEffectModeInq	8x 09 04 63 FF	y0 50 00 FF	Off
			y0 50 02 FF	Neg.Art
			y0 50 04 FF	B&W
30	CAM_PictureFlipModeInq	8x 09 04 66 FF	y0 50 02 FF	On
			y0 50 03 FF	Off
31	CAM_ICRModeInq	8x 09 04 01 FF	y0 50 02 FF	On (Color mode)
			y0 50 03 FF	Off (BW Mode)
32	CAM_AutoICRModeInq	8x 09 04 51 FF	y0 50 0p FF	p:0x02(BW), 0x03(Color),0x04(Auto),0x05(External)
	CAM_AutoICRthres-NDInq	8x 09 04 21 FF	y0 50 00 00 0p 0q FF	pq : ICR ON -> OFF Threshold Level (Night => Day Threshold)
	CAM_AutoICRthres-DNInq	8x 09 04 21 10 FF	y0 50 00 00 0p 0q FF	pq : ICR OFF -> ON Threshold Level (Day => Night Threshold)
	CAM_AutoICRDelayInq	8x 09 04 41 FF	y0 50 00 00 0p 0q FF	pq : 1 ~50 Sec
33	CAM_AutoICRAlarmReplyInq	8x 09 04 31 FF	y0 50 02 FF	On
			y0 50 03 FF	Off
34	CAM_MemorysaveInq	8x 09 04 23 0X FF	y0 50 0p 0p 0q 0q FF	X : 00 to 07 (Address) , ppqq : 0x0000 to 0xFFFF (Data)
35	CAM_DisplayModeInq	8x 09 04 15 FF (8x 09 06 06 FF)	y0 50 02 FF	On
			y0 50 03 FF	Off
36	CAM_TitleInq	None (Inq X)		
37	CAM_MultilineInq	None (Inq X)		
38	CAM_EvenlineInq	None (Inq X)		
39	CAM_MuteModeInq	8x 09 04 75 FF	y0 50 02 FF	On
			y0 50 03 FF	Off
40_1	CAM_PrivacyDisplayInq	8x 09 04 77 FF	y0 50 00 00 pp pp FF	pp pp : Mask Display (0:OFF, 1:ON)
	CAM_PrivacyPanTiltInq	8x 09 04 79 FF	y0 50 0p 0p 0p 0q 0q 0q FF	ppp : Pan , qqq : Tilt
	CAM_PrivacyPTZInq	8x 09 04 7B mm FF	y0 50 0p 0p 0p 0q 0q 0q 0r 0r 0r 0r FF	mm : Mask Settings ppp : Pan qqq : Tilt rrrr : Zoom
	CAM_PrivacyMonitorInq	8x 09 04 6F FF	y0 50 pp pp pp pp FF	pp pp pp pp : Mask is displayed now.
41	CAM_IDInq	8x 09 04 22 FF	y0 50 0p 0q 0r 0s FF	pqrs : Camera ID
41_1	CAM_VersionInq	8x 09 00 02 FF	y0 50 mn pq rs tu vw xy FF	mnpq : Model Code (82xx) rstu : FW Version (xxxx) vwxy : Date code (YYMM) See. " Cam_VersionInq"
42	CAM_MDModeInq	8x 09 04 1B FF	y0 50 02 FF	On
			y0 50 03 FF	Off
	CAM_MDFuncInq	8x 09 04 1C FF	y0 50 0m 0n 0p 0q 0r 0s FF	m : Display mode n : Detection Frame Set (0 to 3) pq : Threshold Level (00 to A) rs : Interval Time set (00 to FF)
	CAM_MDWindowInq	8x 09 04 1D 0m FF	y0 50 pp qq rr ss FF	m : Select Detection Frame (0,1,2,3) pp : Start Horizontal Position (00 to 3C) qq : Start Vertical Position (00 to 22) rr : Stop Horizontal Position (00 to 3C) ss : Stop Vertical Position (00 to 22)
43	CAM_ContinuousZoomPos ReplyModeInq	8x 09 04 69 FF	y0 50 02 FF	On
			y0 50 03 FF	Off
44	CAM_ZoomPosReplyInterval TimeInq	8x 09 04 6A FF	y0 50 00 00 0p 0p FF	pp : Interval Time
45	CAM_ContinuousFocusPos ReplyModeInq	8x 09 04 16 FF	y0 50 02 FF	On
			y0 50 03 FF	Off
46	CAM_FocusPosReplyInterval TimeInq	8x 09 04 1A FF	y0 50 00 00 0p 0p FF	pp : Interval Time
47	CAM_ExAutoICRThresholdInq (Night => Day)	8x 09 04 1F 21 00 FF	y0 50 00 00 0p 0q FF	pq : ICR ON => OFF threshold when Auto ICR is on (Night => Day)
	CAM_ExAutoICRThresholdInq (Day => Night)	8x 09 04 1F 21 01 FF	y0 50 00 00 0p 0q FF	pq : ICR OFF => ON threshold when Auto ICR is on (Day => Night)
48	CAM_RegisterValueInq	8x 09 04 24 mm FF	y0 50 0p 0p FF	mm : Register No. (00 to 7F) pp : Register Value (00 to FF)
49	CAM_ColorGainInq	8x 09 04 49 FF	y0 50 00 00 0p 0q FF	pq : Color Gain setting (0h to 14h)
50	CAM_ColorHueInq <TBD>	8x 09 04 4F FF	y0 50 00 00 00 0p FF	p : Color Hue setting 0h(-14 degrees) to Eh (+14 degrees)
51	CAM_StabilizerModeInq	8x 09 04 34 FF	y0 50 02 FF	Stablilzer(DIS) on
			y0 50 03 FF	Stablilzer(DIS) off
52 (NEW)	CAM_StabilizerFuncInq	8x 09 04 54 00 FF	y0 50 0p FF	p : 0(10%) , 1(20%) , 2(30%)
		8x 09 04 54 10 FF	y0 50 0p FF	p : 0(Low) , 1(Middle) , 2(High)
		8x 09 04 54 20 FF	y0 50 0p FF	p : 0(OFF) , 1(Half) , 2(Full)
53	CAM_DefogInq	8x 09 04 37 FF	y0 50 02 0p FF	Defog On, p : Defog level (1 : Low, 2 : Middle, 3 : high)
			y0 50 03 00 FF	Defog Off
54	CAM_HLCInq(Simple)	8x 09 04 14 FF	y0 50 0p 0q FF	p : HLC Level (0 : Off, 1 : On) q : HLC mask level (0 : OFF , 1 (Low) ~F (High)
54_1	CAM_HLCInq	8x 09 04 32 00 FF	y0 50 0p FF	p : 0(off) 1(On)
		8x 09 04 32 10 FF	y0 50 00 00 0p 0q FF	pq : 0 ~14h
		8x 09 04 32 30 FF	y0 50 0p FF	p : 0 ~7(WHT,YEL,CYN,GRN,MAG,RED,BLU,BLK)
55	CAM_SpotAEModeInq	8x 09 04 59 FF	y0 50 02 FF	Spot AE on
			y0 50 03 FF	Spot AE Off
	CAM_SpotAEPosInq	8x 09 04 29 FF	y0 50 0p 0q 0r 0s FF	pq : X (0 ~F) , rs : (0 ~F)
56	CAM_MemoryPresetInq	8x 09 04 3F FF	y0 50 pp FF	pp : Memory preset number recalled last
57	CAM_CustomInq	None (Inq X)		

Support(OK)	Support (NG)(ing)
Not Support(X)	To Be Defined(TBD)

< ADDitional Command > (Address : 70,71)

	Command Set	Command	Command Packet	Comment
30x , 40x Common Menu		Priority Task		
A_1	keyAct	Stop	8x 01 70 01 00 FF	
		Up	8x 01 70 01 21 FF	
		Down	8x 01 70 01 22 FF	
		Left	8x 01 70 01 23 FF	
		Right	8x 01 70 01 24 FF	
		Set	8x 01 70 01 26 FF	Enter Key
		Exit & SAVE	8x 01 70 01 27 FF	Menu Off(Save)
		Exit & Not SAVE	8x 01 70 01 28 FF	Menu off(Not Save)
		Factory Default	8x 01 70 01 0F FF	Initialize Camera Data
		Auto Zoom	8x 01 70 01 20 FF	Repeat TELE ~ WIDE To stop, Send the Auto Zoom
		Auto Zoom 1 time	8x 01 70 01 1F FF	Command one more time
A_2	DayNightMode	Auto	8x 01 70 04 00 FF	
		Day	8x 01 70 04 01 FF	
		Night	8x 01 70 04 02 FF	
		External-High	8x 01 70 04 03 FF	Night = Ext. input level is High
		External-Low	8x 01 70 04 04 FF	Night = Ext. input level is Low : Default
A_3	ExtICRthreshold	Day -> Night (EXT-H)	8x 01 70 05 10 0p 0q FF	pq : ICR OFF -> ON Threshold Level (Day->Night) Range (0x00 ~ 0x14) Default 0x08
	(Ext.H or Ext.L mode)	Night -> Day (EXT-H)	8x 01 70 05 11 0p 0q FF	pq : ICR ON -> OFF Threshold Level (Night->Day) Range (0x00 ~ 0x14) Default 0x05
		Day -> Night (EXT-L)	8x 01 70 05 20 0p 0q FF	pq : ICR OFF -> ON Threshold Level (Day->Night) Range (0x00 ~ 0x14) Default 0x05
		Night -> Day (EXT-L)	8x 01 70 05 21 0p 0q FF	pq : ICR ON -> OFF Threshold Level (Night->Day) Range (0x00 ~ 0x14) Default 0x08
A_4	AutoICRdelay	Delay Time	8x 01 04 41 01 00 0p 0q FF	pq : sec (0~60sec) -> q : Low(0) ,Mid(1) , High(2)
A_5	AE_Brightness	Level	8x 01 70 30 0p 0q FF	pq : AE Brightness Level(0x00~0x14)
A_6	AgcAutoLimit	-	8x 01 70 34 pp FF	pp : AGC Max Limit (0x00 ~ 0x0A) See.GAIN LIMIT table)
A_7	Sharpness	-	8x 01 70 53 0p FF	p : Sharpness level (0x00 ~ 0x0A)
A_8	Adj_Color_Hue	-	8x 01 70 25 pq 0r 0s FF	p : (0)direct setting (1)increase (2)decrease q : (1)BYGAIN-(2)BYGAIN+ (3)RYGAIN-(4)RYGAIN+ (5)BYHUE-(6)BYHUE+ (7)RYHUE-(8)RYHUE+ (F)Factory default rs : direct value (if p = 0) : 0x01 ~0xff
40x Menu		Priority Task		
B_1	MaxField	-	8x 01 70 31 00 0p FF	p : AE Sens-up : 0(x32), 1(x16), 2(x8), 3(x4), 4(x2), 5(OFF)
B_2	SetNearFarLimit	-	8x 01 71 24 0p FF	p : 0 (Full) / 1 (Limit)
B_3	ZoomSpeed	Speed	8x 01 70 51 0p FF	p : Zoom Speed (0 ~ 7)
B_4	ZoomDirect	-	8x 01 71 20 0p 0q 0r 0z FF	pqrz : Zoom Position
B_5	ZoomFocusDirect		8x 01 71 20 0z 0z 0z 0z 0f 0f 0f 0f FF	zzzz : Zoom Position ffff : Focus Position
B_6	FocusDirectActual		8x 01 71 21 0p 0q 0r 0z FF	pqrz : Focus Position (See. Actual Zoom / Focus position)
30x Menu		Secondary Task		
C_1	PresetAFmode	DisplaySetting OSD	8x 01 70 02 00 FF	Display On the Preset AF setting OSD
		Cancel & Exit	8x 01 70 02 01 FF	Display Off the setting OSD and do not save
		Save & Exit	8x 01 70 02 02 FF	Display Off the setting OSD and save
		Test	8x 01 70 02 10 FF	Automatically repeats TELE/WIDE
		Preset AF range	8x 01 70 03 0p 0q FF	pq : 00 ~ FF , auto focusing range
C_2	AgcMode	-	8x 01 70 5C 0p FF	p : 1(AGC ON), 0(AGC OFF)
C_3	IrisCloseLimit	-	8x 01 70 2B pp FF	pp : Iris Close Limit, (0x00 ~ 0xA0) **See.Iris Close Limit**
C_4	ZoomPreset	Set	8x 01 70 3F 01 0p 0q 0r FF	pqr : Preset Number (0x000 ~ 0x00E) 16EA (0~15)
		Recall	8x 01 70 3F 02 0p 0q 0r FF	pqr : Preset Number (0x000 ~ 0x00E) 16EA (0~15)
		Clear	8x 01 70 3F 03 0p 0q 0r FF	pqr : Preset Number (0x000 ~ 0x00E) 16EA (0~15)
		Clear All Preset	8x 01 70 3F 0F 00 00 00 FF	Clear all preset data
C_5	HomePowerOn	ON	8x 01 70 24 02 FF	Moving to x1 position after power on
		OFF	8x 01 70 24 03 FF	After power on,move to final position before power off
C_6	FontSize	Normal	8x 01 70 15 30 FF	Fuction OSD / Title font size
		Big	8x 01 70 15 31 FF	
C_7	SyncTDN_AF	-	8x 01 70 06 0p 0q FF	AF is executed once when switching TDN p : Day -> Night q : Night -> Day 0 : AF OFF , 1 : AF ON
C_14	SystemFactoryDef	Reset All Data	8x 01 70 EF EF FF	Change all system data to the factory default state, Use of this command is very careful.
	Disable_SysReset	Disable	8x 01 70 BE BE 02 FF	Prevent system initialization after FW upgrade. Use of this
		Enable	8x 01 70 BE BE 03 FF	command is very careful.
	DaisyChain	OFF	88 40 00 FF	VISCA Daisy Chain Mode
		ON	88 40 01 FF	

Support(OK)	Support (NG)(ing)
Not Support(X)	To Be Defined(TBD)

Additional INQUIRY Protocol

	Inquiry Command	Command Packet	Inquiry Packet	Comments
30x , 40x Common Menu		Priority Task		
A_1	MenuOnOffInq	8x 09 70 01 FF	y0 50 02 FF	Menu On
			y0 50 03 FF	Menu Off
A_2	DayNightModeInq	8x 09 70 04 FF	y0 50 0p 0q FF	p : Day&Nightstate : Color(3),BW(2) q : Day&Night Mode : Auto(0), Color(1), BW(2), External-H(3), External-L(4)
A_3	ExtICRthresholdInq	8x 09 70 05 10 FF	y0 50 0p 0q FF	pq : Ext-H Day => Night threshold
		8x 09 70 05 11 FF	y0 50 0p 0q FF	pq : Ext-H Night => Day threshold
		8x 09 70 05 20 FF	y0 50 0p 0q FF	pq : Ext-L Day => Night threshold
		8x 09 70 05 21 FF	y0 50 0p 0q FF	pq : Ext-L Night => Day threshold
A_4	AutoICRdelayInq			
A_5	AE_BrightnessInq	8x 09 70 30 FF	y0 50 0p 0q FF	pq : Brightness level (0x00 ~ 0x14)
A_6	AgcAutoLimitInq	8x 09 70 34 FF	y0 50 pp FF	pp : AGC Max Limit (See. GAIN LIMIT table)
A_7	ShaprnessInq	8x 09 70 53 FF	y0 50 0p FF	p : sharpness level (0x00 ~ 0x0A)
A_8	Adj_ColorInq	8x 09 70 25 0p FF	y0 50 0r 0s FF	p : (1)BYGAIN- (2)BYGAIN+ (3)RYGAIN- (4)RYGAIN+ (5)BYHUE- (6)BYHUE+ (7)RYHUE- (8)RYHUE+ rs : Value
40x Menu		Priority Task		
B_1	MaxFieldInq	8x 09 70 31 FF	y0 50 0p FF	p : AE Sens-up(0~5) x32(0),x16(1),x8(2),x4(3),x2(4),Off(0)
B_2	SetNearFarLimitInq			
B_3	ZoomSpeedInq	8x 09 70 51 FF	y0 50 0p FF	p : Zoom speed (0~7)
B_4	ZoomposinQ	8x 09 71 20 FF	y0 50 0p 0q 0r 0z FF	pqrz : Zoom Position
B_4	FocusposinQ	8x 09 71 21 FF	y0 50 0p 0q 0r 0z FF	pqrz : Focus Position
B_5	ZoomFocusActualinq	Zoom , Focus Posion inq, (Each Separated Configurations)		
B_6	FocusActualinq	8x 90 71 21 FF	y0 50 0p 0q 0r 0z FF	pqrz : Actual Focus Position
B_7	GetFocusAreainq	8x 90 71 23 FF	y0 50 0f 0f 0f 0f 0n 0n 0n 0n FF	Auto Focus Area : ffff ~ nnnn (Actual focus pos (*)Auto Focus Possible Focus Range
30x Menu		Secondary Task		
C_1	KT_PresetAFRangeInq	8x 09 70 03 FF	y0 50 0p 0q FF	pq : Preset AF range
C_2	KT_AgcModeInq	8x 09 70 5C FF	y0 50 0p FF	p :1(AGC ON), 0(AGC OFF)
C_3	KT_IrisCloseLimitInq	8x 09 70 2B FF	y0 50 0p 0q FF	pq : Iris Close Limit (0x00 ~ 0xA0)
C_4	ZoomFocusPresetInq	8x 09 70 3F 0n 0n 0n FF	y0 50 0v 0z 0z 0z 0z 0f 0f 0f 0f FF	nnn : Preset number (0x000 ~ 0x00E) v : 1 (Saved) , 0 (Empty) zzzz : Zoom Position ffff : Focus Position
C_5	HomePowerOnInq	8x 09 70 24 FF	y0 50 0p FF	p : Home Position Mode, 2(ON), 3(OFF)
	KT_CustomPresetInq	8x 09 70 3E FF	y0 50 0p FF	p : 1 (Custom preset activate) , 0 (Custom preset inactive)
C_6	KT_FontSizeInq	8x 09 70 15 FF	y0 50 0p FF	p : 0 (Normal Size) , 1 (Big Size)
C_7	KT_SyncTDN_AFInq	8x 09 70 06 FF	y0 50 0p 0q FF	p : Day => Night q : Night => Day 0 : AF OFF , 1 : AF ON
C_8	KT_FocusBoundaryInq	8x 09 70 08 FF	y0 50 0p FF	p : 0 (Normal) , 1 (Release)
C_9	KT_AeManualAutoSetInq	8x 09 70 5D FF	y0 50 0p FF	p : 0 (Off) , 1 (On)
C_10	KT_WbManualAutoSetInq	8x 09 70 26 FF	y0 50 0p FF	p : 0 (Off) , 1 (On)
C_11	KT_AE_Manual_PresetInq	8x 09 70 63 0q FF	y0 50 0r FF	q = 0 ~ 7 : exposure preset number r = 0(empty) , 1(saved)
	KT_AE_OnePushInq	8x 09 70 61 FF	y0 50 0r FF	r = 0(finished) , 1(action)
C_12	KT_WB_Manual_PresetInq	8x 09 70 62 0q FF	y0 50 0r FF	q = 0 ~ 7 : white balance preset number r = 0(empty) , 1(saved)
	KT_WB_OnePushInq	8x 09 70 60 FF	y0 50 0r FF	r = 0(finished) , 1(action)
C_13	KT_DIS_RangeInq	8x 09 70 D0 FF	y0 50 0r FF	r = 1(10%), 2(20%), 3(30%)
	KT_DIS_FilterInq	8x 09 70 D1 FF	y0 50 0r FF	r = 1(low), 2(middle), 3(high)
	KT_DIS_AutoCInq	8x 09 70 D2 FF	y0 50 0r FF	r = 1(off), 2(half), 3(full)
C_14	KT_Disable_SysResetInq	8x 09 70 BE FF	y0 50 0r FF	r = 2(disable) , 3(enable)

Support (OK)	O	O
To Be Defined (TBD)	TBD	X
Not Support	X	X
		X

Memory Preset

	Date	250123	INDEX	250123	INDEX
		Custom Preset		Memory Preset	
No	Fuction	Kxxx	DynaLogic	Kxxx	DynaLogic
1	Zoom Position (2Bytes)	O	O	O	O
2	Digital Zoom On/Off	O	O	O	O
3	Digtal Zoom Position	O	O	X	O
4	Zoom Start Position	O	TBD	X	X
5	Zoom Stop Position	O	TBD	X	X
6	Zoom Speed	O	O	X	X
7	AF Home Position	O	O	X	X
8	AF Limited Range	O	TBD	X	X
9	Focus Position	O	O	O	O
10	Focus Mode	O	O	O	O
11	Near Limit Setting	O	TBD	X	X
12	AF Sensitivity	O	O	X	X
13	AF Mode	O	O	O	O
14	AF Run Time	O	X	X	X
15	AF Interval time	O	O	X	X
16	WB Mode	O	O	O	O
17	WB Data(Rgain,Bgain) (2Bytes)	O	O	O	O
18	COLOR Gain	O	O	X	X
19	AE Mode	O	O	O	O
20	AE Response	O	TBD	X	X
21	AE Slow Shutter	O	O	O	X
22	Shutter Position	O	O	O	O
23	Iris Position	O	O	O	O
24	Gain Position	O	O	O	X
25	Gain Limit	O	O	O	X
26	Bright Position	O	O	O	O
27	Exposure Compensation Mode	O	X	O	X
28	Exposure Compensation Amount	O	X	O	X
29	Flickerless	O	O	X	X
30	Aperture Level	O	O	O	O
31	Gamma	O	O	X	X
32	High Resolution	O	O	X	X
33	LR Reverse	O	O	X	X
34	Picture Flip	O	O	X	X
35	Freeze	O	O	X	X
36	Picture Effect	O	X	X	X
37	D-WDR	O	O	X	X

38	Defog On/Off	O	O	O	**O**
39	Defog Level	O	O	X	X
40	3DNR MODE	O	O	O	**O**
41	3DNR Level	O	O	X	X
42	2DNR Mode	O	X	X	X
43	2DNR Weight	O	X	X	X
44	Digital Image Stabilizer on/off	O	O	X	X
45	Digital Image Stabilizer Setting	O	O	X	X
46	BackLight On/Off	O	O	O	**O**
47	BLC Setting	O	O	X	X
48	WDR On/Off	O	O	O	**O**
49	HLC On/Off	O	O	X	X
50	HLC setting	O	O	X	X
51	ICR On/Off	O	O	O	**O**
52	Auto ICR On/OFF	O	O	O	**O**
53	Auto ICR Threshold Level	O	O	X	X
54	Day&Night Dwell Time	O	O	X	X
55	Day->Night AGC Level	O	O	X	X
56	Night->Day AGC Level	O	O	X	X
57	Day->Night EXT-H Level	O	O	X	X
58	Night->Day EXT-H Level	O	O	X	X
59	Day->Night EXT-L Level	O	O	X	X
60	Night->Day EXT-L Level	O	O	X	X
61	Privacy Mask On/Off	O	TBD	X	**X**
62	Privacy Mask Display	O	TBD	X	**X**
63	Privacy Mask Setting	O	TBD	X	**X**
64	Motion On/Off	O	O	X	X
65	Motion Display	O	O	X	X
66	Motion Setting	O	O	X	X
67	Title Display On/Off	O	O	X	X
68	Title Setting	O	O	X	X
69	Display On/Off	O	O	X	X
70	ETC	X	X	X	X

Support(OK)	Support (NG)(ing)
Not Support(X)	To Be Defined(TBD)

PELCO-D COMMAND Protocol

	Function	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	
		Sync	Camera Address	Commend1	Commend2	Data1	Data2	CheckSum	
1	Zoom Tele	0xFF	ID	0x00	0x20	0x00	0x00	SUM	
2	Zoom Wide	0xFF	ID	0x00	0x40	0x00	0x00	SUM	
3	Focus Near	0xFF	ID	0x01	0x00	0x00	0x00	SUM	
4	Focus Far	0xFF	ID	0x00	0x80	0x00	0x00	SUM	
5	Stop	0xFF	ID	0x00	0x00	Don't care		SUM	
6	Menu(Set)	0xFF	ID	0x00	03 or 07	0x00	0x5F	SUM	
7	ESC	0xFF	ID	0x00	03 or 07	0x00	0x60	SUM	
8	Up	0xFF	ID	0x00	0x08	0x00	0xXX	SUM	
9	DOWN	0xFF	ID	0x00	0x10	0x00	0xXX	SUM	
10	LEFT	0xFF	ID	0x00	0x04	0xXX	0x00	SUM	
11	RIGHT	0xFF	ID	0x00	0x02	0xXX	0x00	SUM	
12	Set Zoom Preset	0xFF	ID	0x00	0x03	0x00	Preset ID(00h~0Eh)	SUM	
13	Clear Zoom Preset	0xFF	ID	0x00	0x05	0x00	Preset ID (00h~0Eh, 0Fh:all)	SUM	
14	Go to Zoom Preset	0xFF	ID	0x00	0x07	0x00	Preset ID(00h~0Eh)	SUM	
15	Focus Mode	0xFF	ID	0x00	0x2B	0x00	00,01 : Auto 02 : Manual	SUM	

ID	Camera ID (1 ~255)
XX	Speed (10h < XX < 40h)
CS	8 Bit Sum of byte 2 ~6

PELCO-P COMMAND Protocol

	Function	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
		STX	Camera Address	Data1	Data2	Data3	Data4	ETX	Checksum
1	Zoom Tele	0xA0	ID	0x00	0x20	0x00	0x00	0xAF	XOR
2	Zoom Wide	0xA0	ID	0x00	0x40	0x00	0x00	0xAF	XOR
3	Focus Near	0xA0	ID	0x02	0x00	0x00	0x00	0xAF	XOR
4	Focus Far	0xA0	ID	0x01	0x00	0x00	0x00	0xAF	XOR
5	Stop	0xA0	ID	0x00	0x00	Don't care		0xAF	XOR
6	Menu(Set)	0xA0	ID	0x00	03 or 07	0x00	0x5F	0xAF	XOR
7	ESC	0xA0	ID	0x00	03 or 07	0x00	0x60	0xAF	XOR
8	Up	0xA0	ID	0x00	0x08	0x00	0xXX	0xAF	XOR
9	DOWN	0xA0	ID	0x00	0x10	0x00	0xXX	0xAF	XOR
10	LEFT	0xA0	ID	0x00	0x04	0xXX	0x00	0xAF	XOR
11	RIGHT	0xA0	ID	0x00	0x02	0xXX	0x00	0xAF	XOR
12	Set Zoom Preset	0xA0	ID	0x00	0x03	0x00	Preset ID(00h~0Eh)	0xAF	XOR
13	Clear Zoom Preset	0xA0	ID	0x00	0x05	0x00	Preset ID (00h~0Eh, 0Fh:all)	0xAF	XOR
14	Go to Zoom Preset	0xA0	ID	0x00	0x07	0x00	Preset ID(00h~0Eh)	0xAF	XOR

ID	Camera ID (1 ~255)
XX	Speed (10h < XX < 40h)
CS	Xor Sum of byte 1 ~7