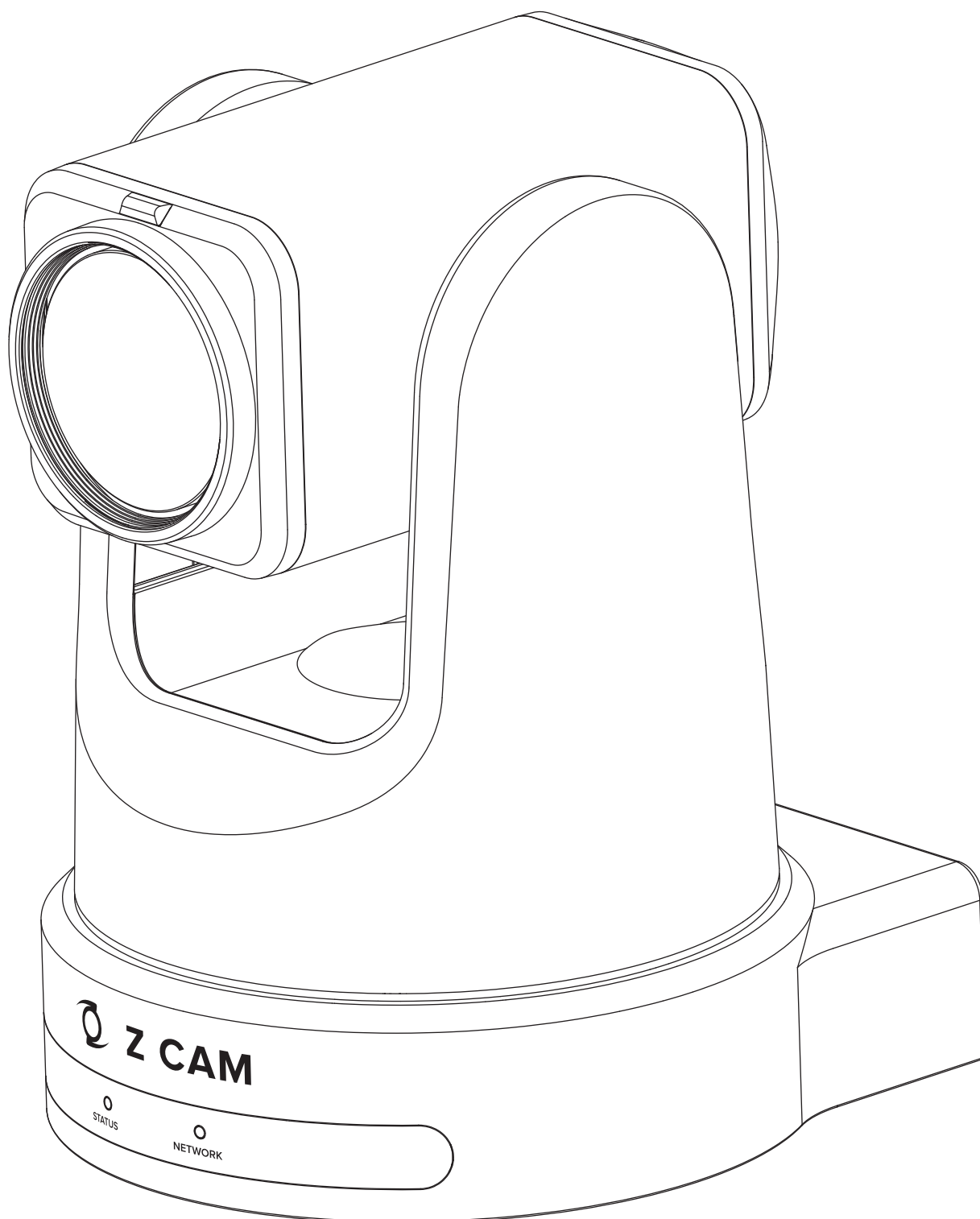




Z CAM P2

VISCA Command List

VISCA 命令列表

Command List

Command Set	Command		Command Packet	Comments
VISCA	Address Set	Broadcast	88 30 01 FF	Not for VISCA over IP
	IF Clear	Broadcast	88 01 00 01 FF	Clear socket
	Command Cancel		8x 2p FF	p = 1 or 2
	Network Change		z0 38 FF	Not for VISCA over IP
	ACK		z0 4y FF	z: device address + 8; y: socket number 1or 2
	Completion		z0 5y FF	
	Syntax Error		z0 6y 02 FF	
	Command Buffer Full		z0 6y 03 FF	
	Command Cancled		z0 6y 04 FF	
	No Socket		z0 6y 05 FF	
	Command Not Executable		z0 6y 41 FF	
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 (Low) to 7 (High)
	Wide	Variable	8x 01 04 07 3p FF	
	Diret	-	8x 01 04 47 0p 0q 0r 0s FF	pqrs: Zoom Position
	Mode	-	8x 01 04 06 0p FF	p: 2 Digital Zoom, 3 = Optical Only
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 (Low) to 7 (High)
	Near	Variable	8x 01 04 08 3p FF	
	Direct	-	8x 01 04 48 0p 0q 0r 0s FF	pqrs: focus position
	One Push Triger	-	8x 01 04 18 01 FF	On Push AF Trigger
	Focus Infinity	-	8x 01 04 18 02 FF	
	ZoomFocus	Direct	8x 01 04 47 0p 0q 0r 0s 0t 0u 0v 0w FF	pqrs: Zoom Position tuvw: Focus Position
	Focus Method		8x 01 04 38 0p FF	p: 2 =AF, 3 =MF
	AF_Sensitivity	-	8x 01 04 58 0p FF	p:1=High 2=Normal, 3=Low
	AF Area	-	8x 01 7E 07 00 0p FF	0p: 1=Flexible Zone; 2=Face; 4=To; 5=Center; 6=Bottom
White Balance	Mode	Auto	8x 01 04 35 00 FF	Normal Auto
		Indoor	8x 01 04 35 01 FF	Indoor Mode
		Outdoor	8x 01 04 35 02 FF	Outdoor Mode
		OnePush Mode	8x 01 04 35 03 FF	
		Manual	8x 01 04 35 05 FF	Manual control (R/B gain)
		ColorTemperature	8x 01 04 35 20 FF	Color Temerature Mode
	WB OnePush Trigger	-	8x 01 04 10 05 FF	OnePush WB Trigger
	R Gain	Reset	8x 01 7E 01 63 00 FF	
		Up	8x 01 7E 01 63 02 FF	
		Down	8x 01 7E 01 63 03 FF	
		Direct	8x 01 7E 04 46 02 0p 0q 0r 0s FF	pqrs: (-7168) 0 ~ 0x3800 (+7168)
	B Gain	Reset	8x 01 7E 01 64 00 FF	
		Up	8x 01 7E 01 64 02 FF	
		Down	8x 01 7E 01 64 03 FF	
		Direct	8x 01 7E 04 56 02 0p 0q 0r 0s FF	pqrs: (-7168) 0 ~ 0x3800 (+7168)
	Color Temperature	Reset	8x 01 04 20 00 FF	5600K
		Up	8x 01 04 20 02 FF	
		Down	8x 01 04 20 03 FF	
		Direct	8x 01 04 20 0p 0q 0r 0s FF	pqrs: 2300K~30000K
	Color Tint	Reset	8x 01 04 21 00 FF	100 (0)
		Up	8x 01 04 21 02 FF	
		Down	8x 01 04 21 03 FF	
		Direct	8x 01 04 21 0p 0q FF	pq: 0x0 (-100) ~ 0xC8 (+100)
Exposure	Mode	Full Auto	8x 01 04 39 00 FF	Fix Iris, Shutter/Gain Auto
		Manual	8x 01 04 39 03 FF	Iris/Shutter/Gain Fix
		Shutter Priority	8x 01 04 39 0A FF	Iris/Shutter Manual, Gain Auto
		Iris Priority	8x 01 04 39 0B FF	Fix Iris, Shutter/Gain Auto
	AE SPEED	Direct	8x 01 04 5D pp FF	pp: 01: Normal 02: Fast 00: Slow
	Iris	Reset	8x 01 04 0B 00 FF	Full open
		Up	8x 01 04 0B 02 FF	Open
		Down	8x 01 04 0B 03 FF	
		Direct	8x 01 04 4B 00 00 0p 0q FF	
	Shutter	Reset	8x 01 04 0A 00 FF	Maximum
		Up	8x 01 04 0A 02 FF	
		Down	8x 01 04 0A 03 FF	
		Direct	8x 01 04 4A 00 00 0p 0q FF	
		Max Shutter	8x 01 05 2A 00 0p 0q FF	
	Gain	Reset	8x 01 04 0C 00 FF	0 dB
		Up	8x 01 04 0C 02 FF	
		Down	8x 01 04 0C 03 FF	
		Direct	8x 01 04 4C 00 00 0p 0q FF	
		Gain Limit	8x 01 04 2C pp FF	6 dB
		Reset	8x 01 04 0E 00 FF	0EV
		Up	8x 01 04 0E 02 FF	
		Down	8x 01 04 0E 03 FF	
		Direct	8x 01 04 4E 00 00 0p 0q FF	
	Backlight Comp	On/Off	8x 01 04 33 0p FF	p: 2 on, 3 = off, BackLight Compensation On/Off
	Flicker Reduction	-	8x 01 04 23 0p FF	1:50Hz 2:60Hz

Command Set	Command		Command Packet	Comments
Image	Image Profile	Direct	8x 01 7E 04 5F pp FF	pp: 0 Rec.709 10 High Contrast 11 Concert 12 VIVID 15 Gamma 16 Cine
	Sharpness	Reset	8x 01 04 02 00 FF	
		Up	8x 01 04 02 02 FF	
		Down	8x 01 04 02 03 FF	
		Direct	8x 01 04 42 00 00 0p 0q FF	pq: 1=none 2=Medium 3=Strong
	Noise Reduction	-	8x 01 04 53 0p FF	p: 0(off) ~ 2
	Brightness	Direct	8x 01 04 A1 00 00 0p 0q FF	pq: brightness, 0 to 100
	Contrast	Direct	8x 01 04 A2 00 00 0p 0q FF	pq: contrast, 0 to 100
	Saturation	Direct	8x 01 04 A3 00 00 0p 0q FF	pq: saturation, 0 to 100
Color Correction	Hue	Direct	8x 01 04 A4 00 00 0p 0q FF	pq: hue, 0 to 100
	Status	On/Off	8x 01 04 50 00 00 0p FF	p: 2 on, 3 = off
	Gain	-	8x 01 04 49 00 00 0p vv FF	p: Color specification vv: Gain setting level p: 1 Red 2 Red_Yellow 3 Yellow 4 Yellow_G 5 Green 6 Green_CY 7 Cyan 8 Cyan_B 9 Blue 10 Blue_MG 11 Magenta 12 Magenta_R vv is from 0(-100%) to 200(100%) init value is 100
	Hue	-	8x 01 04 4F 00 00 0p vv FF	p: Color specification vv: Phase setting level vv is from 0(-100%) to 200(100%) init value is 100
Matrix	Status	On/Off	8x 01 7E 01 3D 0p FF	p: 2 on, 3 = off,
	R-G	-	8x 01 7E 01 7A 0p 0p FF	pp: from 0(-100%) to 200(100%) init value is 100
	R-B	-	8x 01 7E 01 7B 0p 0p FF	
	G-R	-	8x 01 7E 01 7C 0p 0p FF	
	G-B	-	8x 01 7E 01 7D 0p 0p FF	
	B-R	-	8x 01 7E 01 7E 0p 0p FF	
	B-G	-	8x 01 7E 01 7F 0p 0p FF	
Gamma	KNEE	On/Off	8x 01 7E 01 6D 0p FF	p: 2 on, 3 = off
		Slope	8x 01 7E 01 6F 0p 0q FF	pq: 00 - 0xC8, 0x64 is default
		Point	8x 01 7E 01 6E 0p 0q FF	pq: 00 - 0x32, 0 is default
	Gamma	Select	8x 01 04 5B 0p FF	p: 0=709, 1=sRGB, 2=Pattern(power)
		Pattern	8x 01 05 5B 0p 0p 0p FF	ppp: 000 - 0x200, 0 is default
	Black Gamma	Level	8x 01 7E 01 72 0p 0p FF	pp: 00 - 0xC8, 0x64 is default
		Range	8x 01 05 5C 0p FF	p: 0 narrow, 1 mid, 2 wide
	Black Level	Reset	8x 01 7E 04 15 00 FF	
		Up	8x 01 7E 04 15 02 FF	
		Down	8x 01 7E 04 15 03 FF	
		Direct	8x 01 7E 04 45 0p 0p FF	pp: 00 - 0xC8, 64 is default

Command Set	Command		Command Packet	Comments
Pan Tilt	Drive	Up	8x 01 06 01 vv ww 03 01 FF	vv: Pan speed 01(slow) - 1E (fast) ww: Tilt speed 01(slow) - 1E (fast)
		Down	8x 01 06 01 vv ww 03 02 FF	
		Left	8x 01 06 01 vv ww 01 03 FF	
		Right	8x 01 06 01 vv ww 02 03 FF	
		UpLeft	8x 01 06 01 vv ww 01 01 FF	
		UpRight	8x 01 06 01 vv ww 02 01 FF	
		DownLeft	8x 01 06 01 vv ww 01 02 FF	
		DownRight	8x 01 06 01 vv ww 02 02 FF	
		Stop	8x 01 06 01 vv ww 03 03 FF	
		ABS	8x 01 06 02 vv ww 0p 0p 0p 0p 0t 0t 0t 0t FF	pppp: Pan coord tttt: Tilt coord
		REL	8x 01 06 03 vv ww 0p 0p 0p 0p 0t 0t 0t 0t FF	pppp: Pan-shift ammout tttt: Tilt-shift ammount
		Home	8x 01 06 04 FF	
		Reset	8x 01 06 05 FF	
	LimitSet	Set	8x 01 06 07 00 0q 0p 0p 0p 0p 0t 0t 0t 0t FF	q: 0 = DownLeft, 1= UpRight pppp: Pan coordinates tttt: Tilt coordinates
		Clear	8x 01 06 07 01 0q 07 0F 0F 0F 07 0F 0F 0F FF	q: 0 = DownLeft, 1= UpRight
PTZ Trace	Rec	-	8x 01 06 44 0p FF	p: 0=Slow, 1=Normal, 2 = Fast
		Start	8x 01 7E 04 20 00 0p 02 FF	p: 0 to F
		Stop	8x 01 7E 04 20 00 00 03 FF	
	Play	Prepare	8x 01 1E 04 20 01 0p 01 FF	p: 0 to F
		Start	8x 01 1E 04 20 01 00 02 FF	
	Delete	Delete	8x 01 1E 04 20 02 0p 00 FF	p: 0 to F
Preset	Reset	Reset	8x 01 04 3F 00 pp FF	pp: Memory Number(0 to 0x63)
	Set	Set	8x 01 04 3F 11 pp FF	
	Recall	Recall	8x 01 04 3F 12 pp FF	
	Speed	Select	8x 01 7E 04 1B 0p FF	p:1=Seperate,2=Common
		Seperate Index	8x 01 7E 01 0B pp qq FF	pp: Preset Number-1 (0-0x63) qq: Positioning Speed (01-0x28)
		Seperate Unit	8x 01 7E 01 0C pp qq FF	pp: Preset Number-1 (0-0x63) qq: Unit
		Seperate Time	8x 01 7E 01 0D pp qq FF	pp: Preset Number-1 (0-0x63) qq: Positioning Time (01-0x3C)
		Common Speed	8x 01 7E 04 1C 0p 0p FF	pp: Common Speed (01~0x28)
		Common Unit	8x 01 7E 04 1D 00 0p FF	p: 0 Index; 1 Time
		Common Time	8x 01 7E 04 1E 0p 0p FF	pp: time (01-0x3C)
		-	8x 01 7E 04 3D pp FF	pp:00=Mde1, 01=Mode2, 02 = Mode3
	Mode	-		Mode1: PTZF + Image Mode2: PTZF only Mode3: PTZF + Iris
		-		
		-		
	Call Mode	-	8x 01 7E 04 3B 0p FF	p:2=Freeze, 3=Normal
Auto Framing	Start/Stop	-	8x 01 7E 04 3A 0p FF	p: 1 start, 0 stop
System	Menu	Open/Close	8x 01 06 06 pp FF	p: 2 on, 3 = off, 10 = toggle
		Navigation	8x 01 07 0E 04 40 0p 0p 0q FF	pp: 31=Up, 32=Down, 13=Left, 23=Right, 11=Up-Left, 21=Up-Right, 12=Down-Left, 22=Down-Right, 70=OK, 71=Cancel/Back q: 0=Release, 1=Press
	Informaiton Display	On/Off	8x 01 7E 01 18 0p FF	p: 2 on, 3 = off
	Tally	Mode	8x 01 7E 01 0A 01 0p FF	p: 0 = off, 4 =low, 5 = high
		RED	8x 01 7E 01 0A 00 0p FF	p: 2 on, 3 = off
		GREEN	8x 01 7E 04 1A 00 0p FF	p: 2 on, 3 = off
	SettingSave	Save	8x 01 04 A5 10 FF	
	IDWrite	-	8x 01 04 22 0p 0q 0r 0s FF	pqrs: Camera ID (0000~FFFF)
	Power	On/Standby	8x 01 04 00 0p FF	p: 2 On, 3 = Standby
	Color Bar	On/Off	8x 01 04 7D 0p FF	p: 2=On, 3=Off
Video	IR Receive	On/Off	8x 01 06 08 pp FF	pp: 2=On, 3=Off, 10=Toggle
	Video Format	-	8x 01 7E 04 32 0p 0q FF	Refer to value table
	Flip	On/Off	8x 01 04 66 0p FF	p:2=On, 3=Off
	HDMI	-	8x 01 7E 01 1E 0p 0q FF	Refer to value table
	E.I.S.	On/Off	8x 01 04 34 0p FF	p: 2=On, 3=Off

Inquiry Command List

	Inquiry Command	Command Packet	Inquiry Packet	Comments
Zoom	ZoomPosInq	8x 09 04 47 FF	y0 50 0p 0q 0r 0s FF	pqrs: Zoom Position
	ZoomModelInq	8x 09 04 06 FF	y0 50 0p FF	p: 2 Digital Zoom, 3 = Optical Only
Focus	FocusModelInq	8x 09 04 38 FF	y0 50 0p FF	p: 2 =AF, 3 =MF
	FocusPosInq	8x 09 04 48 FF	y0 50 0p 0q 0r 0s FF	pqrs: focus position
	AFSensitivityInq	8x 09 04 58 FF	y0 50 0p FF	p:1=High 2=Normal, 3=Low (TBD)
	AFZoneInq	8x 09 7E 07 00 FF	y0 50 0p FF	pp: 1=Flexible Zone; 2=Face; 4=To; 5=Center; 6=Bottom
White Balance	Mode	8x 09 04 35 FF	y0 50 pp FF	pp: 00:auto 01:indoor 02:outdoor 03,OnePush Mode 05:Manual control (R/B gain) 0x20:Color Temerature
	R Gain	8x 09 7E 04 46 02 FF	y0 50 0p 0q 0r 0s FF	pqrs: corresponding range 0x1FE8--0x2C00
	B Gain	8x 09 7E 04 56 02 FF	y0 50 0p 0q 0r 0s FF	pqrs: corresponding reange 0x1FE8--0x2C00
	Color Temperature	8x 01 04 20 FF	y0 50 0p 0q 0r 0s FF	
	Color Tint	8x 01 04 21 FF	y0 50 0p 0q FF	
Exposure	ExpModelInq	8x 09 04 39 FF	y0 50 0p FF	00:Full Auto 03:Manual 0A:Shutter Priority 0B:Iris Priority
	AESEpeedInq	8x 09 04 5D FF	y0 50 pp FF	01: Normal 02: Fast 00: Slow
	ShutterPosInq	8x 09 04 4A FF	y0 50 0p 0q FF	pq:shutter (refer to "Value" shutter)
	IrisPosInq	8x 09 04 4B FF	y0 50 00 00 0p 0q FF	pq:iris pos (refer to "Value" Iris)
	GainPosInq	8x 09 04 4C FF	y0 50 00 00 0p 0q FF	pq:gain pos (refer to "Value" Gain)
	GainLimitInq	8x 09 04 2C FF	y0 50 pp FF	pq:gain pos (refer to "Value" Gain)
	ExpCompPosInq	8x 09 04 4E FF	y0 50 00 00 0p 0q FF	pq: ev (refer to "Value" Exposure Comp)
	BackLightModelInq	8x 09 04 33 FF	y0 50 0p FF	p: 02:on 03:off
	FlickerModelInq	8x 09 04 55 FF	y0 50 0p FF	Op: 01:50hz, 02:60hz
Image	Image profile	81 09 7E 04 5F FF	y0 50 pp FF	pp: 0 Rec.709 10 High Contrast 11 Concert 12 Vivid 15 Gamma 16 Cine
	Noise Reduction	8x 09 04 53 FF	y0 50 0p FF	p: 0(off) 1=Weak",2=Medium
	Sharpness	8x 09 04 42 FF	y0 50 00 00 0p 0q FF	pq: 1=none 2=Medium 3=Strong
	Brightness	8x 09 04 A1 FF	y0 50 00 00 0p 0q FF	pq:0-100
	Contrast	8x 09 04 A2 FF	y0 50 00 00 0p 0q FF	
	Saturation	8x 09 04 A3 FF	y0 50 00 00 0p 0q FF	
	Hue	8x 09 04 A4 FF	y0 50 00 00 0p 0q FF	
Color correction	Color Correction	8x 01 04 50 FF	y0 50 0p FF	p: 02:on 03:off
	Color Hue	8x 09 04 4F 00 0p FF	y0 50 00 00 00 vv FF	vv is from 0(-100%) to 200(100%)
	Color Saturation	8x 09 04 49 00 0p FF	y0 50 00 00 00 vv FF	
Color Matrix	Matrix	81 09 7E 01 3D FF	y0 50 0p FF	p: 02:on 03:off
	R-G	8x 09 7E 01 7A FF	y0 50 00 00 0p 0p FF	pp: from 0(-100%) to 200(100%) init value is 100
	R-B	8x 09 7E 01 7B FF	y0 50 00 00 0p 0p FF	
	G-R	8x 09 7E 01 7C FF	y0 50 00 00 0p 0p FF	
	G-B	8x 09 7E 01 7D FF	y0 50 00 00 0p 0p FF	
	B-R	8x 09 7E 01 7E FF	y0 50 00 00 0p 0p FF	
Gamma	B-G	8x 09 7E 01 7F FF	y0 50 00 00 0p 0p FF	
	Knee	8x 09 7E 01 6D FF	y0 50 0p 0q 0q 0r 0r FF	p:02 = on, 03 = off qq: point:0-0x32 rr: slope:0-0xC8
	Black gamma	8x 09 7E 01 72 FF	y0 50 0p 0q 0q FF	p: range: 0 = narrow, 1 = mid, 2 = wide qq: level: 0-0xC8
	Black level	8x 09 7E 04 15 FF	y0 50 0p 0p FF	pp:level: 0-0xC8
	Gamma Type	8x 09 7E 04 5B FF	y0 50 0p 0q 0q 0q FF	p:0 = REC.709, 1 = sRGB, 2 = Pattern(Power) qqq:0-0x200

	Inquiry Command	Command Packet	Inquiry Packet	Comments
Pan Tilt	Position	8x 09 06 12 FF	y0 50 0w 0w 0w 0w 0z 0z 0z 0z FF	www = Pan Position zzzz = Tilt Position
	Range Limit	8x 01 06 07 FF	y0 50 0g pp qq rr ss FF	g:limit enable:1=On, 0=Off pp:left limit qq:right limit rr:up limit ss:down limit
	Speed Mode	8x 09 06 44 FF	y0 50 0p FF	p: 0=Slow, 1=Normal, 2 = Fast
Preset	Mode	8x 09 7E 04 3D FF	y0 50 pp FF	pp:00=Mde1, 01=Mode2 Mode1: PTZF + Image Mode2: PTZF only
	Speed Mode	8x 09 7E 04 1B FF	y0 50 0p FF	p:1=Seperate,2=Common
	Common Speed	8x 09 7E 04 1C FF	y0 50 pp FF	pp: Common Speed (01~0x19)
	Seperate Speed	8x 09 7E 01 0B pp FF	y0 50 qq FF	pp: Preset Number-1 (0-0x63) qq: Positioning Speed (01-0x19)
	Call Mode	8x 09 7E 04 3B FF	y0 50 pq FF	p:2=Freeze, 3=Normal
PTZ Trace	Record Status (All)	8x 09 7E 04 20 10 00 00 FF	y0 50 0q 0q 0q 0q FF	qqqq:0=No record, 1=Record exists
	Status	8x 09 7E 04 20 03 FF	y0 50 0p FF	p:0=None,1=Recording,2=Preparing 3=Ready for play,4=Playing,5=Deleting 6=Ready for record
	Record Status (Seperate)	8x 09 7E 04 20 10 01 0p FF	y0 50 0g FF	p:Ptz trace number g:0=No record, 1=Record exists
	Prepared Number	8x 09 7E 04 20 01 00 00 FF	y0 50 0p FF	p:0-F
Auto Framing	Status	81 09 7E 04 3A FF	y0 50 0p FF	p:1= start, 0 = stop
System	ID	8x 09 04 22 0p 0q 0r 0s FF	y0 50 0p 0q 0r 0s FF	pqrs: Camera ID (0000~FFFF)
	Version	8x 09 00 02 FF	y0 50 GG GG HH HH JJ JJ KK FF	GGGG = Vender ID HHHH = Model ID JJJJ = ROM revision KK = Maximum socket # (02)
	Menu	8x 09 06 06 FF	y0 50 0p FF	p: 02 = on, 03 = off
	Tally	8x 09 7E 01 0A FF	y0 50 0p 0q 0r FF	p: 0 = off, 1 = on, 4 = low, 5 = high q: green 02 = on, 03 = off r: red 02 = on, 03 = off
	Color Bar	8x 09 04 7D FF	y0 50 0p FF	p: 02 = on, 03 = off
	IR Receive	8x 09 06 08 FF	y0 50 0p FF	p: 02 = on, 03 = off
	Informaiton Display	8x 09 7E 01 18 FF	y0 50 0p FF	p: 02 = on, 03 = off
	Power	8x 09 04 00 FF	y0 50 0p FF	p: 02 On, 03 = Standby
	Video Format	8x 09 7E 04 32 FF	y0 50 0p 0q FF	pq: refer to value table
	Fliplnq	8x 09 04 66 FF	y0 50 0p FF	p: 02 = on, 03 = off
Video	HDMI	8x 09 7E 01 1E FF	y0 50 0p 0q FF	pq: refer to value table
	E.I.S.	8x 09 04 34 FF	y0 50 0p FF	p: 02 = on, 03 = off
Block Inq	LensBlockInq	8x 09 7E 7E 00 FF	y0 50 0u 0u 0u 0u 00 00 0v 0v 0v 0v 00 0w 00 FF	uuuu: Zoom position vvvv: Focus position w.bit0: Focus mode 1: Auto, 0: Manual
	CameraBlockInq	8x 09 7E 7E 01 FF	90 50 0p 0p 0q 0q 0r 0s tt 0u vv ww 00 xx 0z FF	pp: R_Gain 900-4096 -> 0-255 qq: B_Gain 900-4096 -> 0-255 r: WB Mode 0:Auto, 1:Indoor, 2:Outdoor, 3:One Push Mode, 5:Manual, 0x20:ColorTemperature s: Aperture tt: AE Mode u.bit2: Backlight u.bit1: Exposure Comp vv: Shutter position ww: Iris position xx: Bright position z: Exposure Comp position
	OtherBlockInq	8x 09 7E 7E 02 FF	90 50 0p 0q 00 0r 00 00 00 00 00 00 00 00 00 FF	p.bit0: Power 1: On, 0: Off q.bit2: LR Reverse 1: On, 0: Off r.bit3~0: Picture Effect Mode
	EnlagmentBlockInq	8x 09 7E 7E 03 FF	90 50 00 00 00 00 00 00 00 0p 0q rr 0s 0t 0u FF	p: AF sensitivity q.bit0: Picture flip 1: On, 0: Off rr.bit6~3: Color Gain (0h (60%) to Eh (200%)) s: Flip 0: Off, 3: FlipHV t.bit2~0: NR2D Level u: Gain limit

VISCA Command Setting Values

Iris

Code	Value
18	F1.6
17	F1.8
16	F2
15	F2.2
14	F2.5
13	F2.8
12	F3.2
11	F3.5
10	F4
0F	F4.5
0E	F5
0D	F5.6
0C	F6.3
0B	F7.1
0A	F8
9	F9
8	F10
7	F11

ISO/Gain

Code	Value
10	30 dB
0F	28 dB
0E	26 dB
0D	24 dB
0C	22 dB
0B	20 dB
0A	18 dB
9	16 dB
8	14 dB
7	12 dB
6	10 dB
5	8 dB
4	6 dB
3	4 dB
2	2 dB
1	0 dB

Exposure Compensation

Code	Gain
12	+18 dB
11	+16 dB
10	+14 dB
0F	+12 dB
0E	+10 dB
0D	+8 dB
0C	+6 dB
0B	+4 dB
0A	+2 dB
9	0 dB
8	-2 dB
7	-4 dB
6	-6 dB
5	-8 dB
4	-10 dB
3	-12 dB
2	-14 dB
1	-16 dB
0	-18 dB

Shutter Speed

Code	Value
0	1/24
1	1/25
2	1/28
3	1/30
4	1/40
5	1/48
6	1/50
7	1/55
8	1/60
9	1/80
0A	1/100
0B	1/110
0C	1/120
0D	1/125
0E	1/160
0F	1/200
10	1/240
11	1/250
12	1/320
13	1/400
14	1/500
15	1/640
16	1/800
17	1/1000
18	1/1250
19	1/1600
1A	1/2000
1B	1/2500
1C	1/3200
1D	1/4000
1E	1/5000
1F	1/6400
20	1/8000

Shutter Angle

Code	Value
0	1°
1	2°
2	4°
3	5°
4	8°
5	10°
6	11.25°
7	15°
8	22.5°
9	30°
0A	37.5°
0B	45°
0C	60°
0D	72°
0E	75°
0F	90°
10	108°
11	120°
12	144°
13	150°
14	172.8°
15	180°
16	216°
17	270°
18	288°
19	324°
1A	360°

Video Format

Code	Format
0	1920x1080@23.98
1	1920x1080@24
2	1920x1080@25
3	1920x1080@29.97
4	1920x1080@50
5	1920x1080@59.94
6	3840x2160@23.98
7	3840x2160@24
8	3840x2160@25
9	3840x2160@29.97
0A	3840x2160@50
0B	3840x2160@59.94

HDMI Format

Code	Format
32	1920x1080@23.98/24
33	1920x1080@25
34	1920x1080@29.97
31	1920x1080@50
16	1920x1080@59.94
93	3840x2160@23.98/24
94	3840x2160@25
95	3840x2160@29.97
96	3840x2160@50
97	3840x2160@59.94

Zoom

Code	Zoom Ratio
0x0000	x1
0xd8a	x2
0x1825	x3
0x1ffb	x4
0x259b	x5
0x2a06	x6
0x2d88	x7
0x306f	x8
0x3300	x9
0x352f	x10
0x3715	x11
0x38c6	x12
0x3a46	x13
0x3ba3	x14
0x3ce3	x15
0x3e02	x16
0x3f0a	x17
0x4000	x18
0x6000	x36 (Digital)

Focus

Code	Distance
0x1000	Inf
0x2000	10m
0x3000	5m
0x4000	4m
0x5000	3m
0x6000	2m
0x7000	1.5m
0x8000	1.2m
0x9000	1m
0xA000	0.8m
0xB000	0.6m
0xC000	0.47m
0xD000	0.35m
0xE000	0.26m
0xF000	0.1m

Pan Tilt Position

Pan	BBA4 (–175-degree) - 445C (+175-degree)
Tilt	F448 (–30-degree) - 5208 (+210-degree)

Pan Tilt Speed (Speed Mode = Low)

Parameter	Speed(deg/sec)	
	Pan	Tilt
1	0.1	0.1
2	0.2	0.2
3	0.5	0.5
4	0.7	0.7
5	0.9	0.9
6	1.1	1.1
7	1.3	1.3
8	1.5	1.5
9	1.9	1.9
0A	2.3	2.3
0B	2.7	2.7
0C	3.2	3.2
0D	3.5	3.5
0E	4.1	4.1
0F	4.7	4.7
10	5.3	5.3
11	5.9	5.9
12	6.5	6.5
13	7.3	7.3
14	8.9	8.9
15	9.8	9.8
16	11.91	11.91
17	14.66	14.66
18	17.38	17.38
19	20.54	20.54
1A	27.59	27.59
1B	34.74	34.74
1C	41.07	41.07
1D	50.2	50.2
1E	60	60

Pan Tilt Speed (Speed Mode = Mid)

Parameter	Speed(deg/sec)	
	Pan	Tilt
1	0.9	0.9
2	1.1	1.1
3	1.3	1.3
4	1.5	1.5
5	1.9	1.9
6	2.3	2.3
7	3.15	3.15
8	4.14	4.14
9	5.36	5.36
0A	6.89	6.89
0B	7.88	7.88
0C	10.9	10.9
0D	13.22	13.22
0E	17.38	17.38
0F	20.54	20.54
10	23.95	23.95
11	27.59	27.59
12	31.27	31.27
13	38.54	38.54
14	43.6	43.6
15	46.5	46.5
16	50.2	50.2
17	54.2	54.2
18	57.3	57.3
19	60.1	60.1
1A	63.2	63.2
1B	66	66
1C	72	72
1D	81.5	81.5
1E	90	90

Pan Tilt Speed (Speed Mode = High)

Parameter	Speed(deg/sec)	
	Pan	Tilt
1	1.1	1.1
2	1.3	1.3
3	1.5	1.5
4	1.9	1.9
5	2.69	2.69
6	3.56	3.56
7	5.36	5.36
8	7.32	7.32
9	9.81	9.81
0A	13.22	13.22
0B	17.38	17.38
0C	20.54	20.54
0D	23.9	23.9
0E	27.5	27.5
0F	34.74	34.74
10	41.07	41.07
11	43.6	43.6
12	46.5	46.5
13	50.2	50.2
14	54.6	54.6
15	57.3	57.3
16	63	63
17	69.1	69.1
18	75.2	75.2
19	80.5	80.5
1A	90	90
1B	105	105
1C	118	118
1D	145.6	145.6
1E	180	180

Pan Tilt Preset Speed

Parameter	Speed(deg/sec)	
	Pan	Tilt
1	0.2	0.2
2	0.5	0.5
3	0.7	0.7
4	0.9	0.9
5	1.1	1.1
6	1.3	1.3
7	1.5	1.5
8	2.3	2.3
9	2.69	2.69
0A	3.15	3.15
0B	4.14	4.14
0C	5.36	5.36
0D	6.45	6.45
0E	7.88	7.88
0F	9.81	9.81
10	10.9	10.9
11	13.22	13.22
12	17.38	17.38
13	20.54	20.54
14	23.95	23.95
15	27.59	27.59
16	31.27	31.27
17	34.74	34.74
18	38.54	38.54
19	41.07	41.07
1A	43.62	43.62
1B	46.54	46.54
1C	50.2	50.2
1D	54.3	54.3
1E	57.3	57.3
1F	60	60
20	63	63
21	69	69
22	76	76
23	81	81
24	90	90
25	105	105
26	118	118
27	148	148
28	180	180

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