

V BOT VISCA IP Commands

Execution and Inquiry Command List

Command Set	Command	Command Packet	Comments
Inquiry Command	Command Packet	Inquiry Packet	Comments
CAM_VersionInq	8x 09 00 02 FF	y0 50 00 01 mn pq rs tu vw FF	mnpq: Model Code (0x11 0x20) rstu: ROM version (0x00 0x01) vw: Socket Number (0x01)
CAM_Power	On	8x 01 04 00 02 FF	Power ON/OFF
	Off (Standby)	8x 01 04 00 03 FF	
CAM_PowerInq	8x 09 04 00 FF	y0 50 02 FF	On
		y0 50 03 FF	Off (Standby) - at Visca Only On
CAM_XF605_Zoom XF605	XF605 Direct	8x 11 04 47 4z 0p 0q 0r 0s FF	ZOOM LOCATION PRECISE CONTROL at XF605 Only On z: 1 (Slow) to 7 (Fast) pqrs: Zoom Position (MIN 530,MAX 7300)
CAM_XF605_ZoomInq XF605	8x 29 04 47 FF	y0 50 0p 0q 0r 0s FF	pqrs: See the VBOT Command Setting Values (ZOOM) section
CAM_XF605_Focus XF605	XF605 Direct	8x 01 04 48 0p 0q 0r 0s FF	Direct XF605 (80~2000) at XF605 Only On
CAM_XF605_FocusInq XF605	8x 29 04 48 FF	y0 50 0p 0q 0r 0s FF	pqrs: See the VBOT Command Setting Values (FOCUS) section
CAM_Zoom XF605	VISCA Direct	8x 11 04 47 2p 0p 0q 0r 0s FF	p: 1 (Slow) to 7 (Fast) pqrs: Zoom Position (MIN 0x0000, MAX 0x4000)
CAM_ZoomInq XF605	8x 09 04 47 FF	y0 50 0p 0q 0r 0s FF	pqrs: See the VISCA Command Setting Values (Zoom) section
CAM_Focus XF605	VISCA Direct	8x 01 04 48 0p 0q 0r 0s FF	pqrs: See the VISCA Command Setting Values (FOCUS) section (Min 0x1000 Max0xC000) at XF605 Only On
CAM_FocusInq XF605	8x 09 04 48 FF	y0 50 0p 0q 0r 0s FF	pqrs: See the VISCA Command Setting Values (FOCUS) section
CAM_Zoom	Stop	8x 01 04 07 00 FF	Zoom Control
	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=1 (Low) to 7 (High)
	Wide (Variable)	8x 01 04 07 3p FF	
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=1 (Low) to 7 (High) (Porstick 0x31/0x21)
	Near (Variable)	8x 01 04 08 3p FF	
	Auto Focus	8x 01 04 38 02 FF	AF ON/OFF Toggle
	Manual Focus	8x 01 04 38 03 FF	pqrs: See the VISCA Command Setting Values (FOCUS) section
	Auto/Manual	8x 01 04 38 10 FF	VISCA (0x2000 ~0xC000)
EXPOSURE MODE	Full Auto	8x 01 04 39 00 FF	IRIS=auto, Shutter =auto, Gain=auto
	Manual	8x 01 04 39 03 FF	
EXPOSURE AE Level (ISO) XF605	Up	8x 01 04 0E 02 FF	pq: See the VISCA Command Setting Values (AE Level) 0x00~0x10
	Down	8x 01 04 0E 03 FF	
	Direct	8x 01 04 4E 00 00 0p 0q FF	
CAM_AE LevelInq XF605	8x 09 04 4E FF	y0 50 00 00 00 0p FF	p: See the VISCA Command Setting Values (AE Level) section
EXPOSURE IRIS XF605	Up (OPEN)	8x 01 04 0B 02 FF	Iris Setting Up(-1), Down(+1) pq: See the VISCA Command Setting Values (IRIS) section
	Down (CLOSE)	8x 01 04 0B 03 FF	
	Direct	8x 01 04 4B 00 00 0p 0q FF	
CAM_AE IRISInq XF605	8x 09 04 4B FF	y0 50 00 00 0p 0q FF	pq: See the VISCA Command Setting Values (IRIS) section

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EXPOSUREShutter XF605	Up	8x 01 04 0A 02 FF	1/4 steppe
	Down	8x 01 04 0A 03 FF	
	Direct	8x 01 04 4A 00 00 0p 0q FF	
CAM_AE SHUTTERInq XF605	8x 09 04 4A FF	y0 50 00 00 0p 0q FF	pq: See the VISCA Command Setting Values (SHUTTER) section
EXPOSURE Gain (ISO) XF605	Up	8x 01 04 0C 02 FF	pq: See the VISCA Command Setting Values (GAIN) section
	Down	8x 01 04 0C 03 FF	
CAM_AE SHUTTERInq XF605	Direct	8x 01 04 4C 00 00 0p 0q FF	pq: See the VISCA Command Setting Values (SHUTTER) section
CAM_Preset	Reset	8x 01 04 3F 00 0p FF	p : preset 0 ~ 9
	Set	8x 01 04 3F 01 0p FF	
	Recall	8x 01 04 3F 02 0p FF	
CAM_Preset	Speed	8x 01 7E 01 0B 0p qr FF	p : preset 0 ~ 9
	Up	8x 01 04 03 02 FF	
	Down	8x 01 04 03 03 FF	
WB RGAIN XF605	Direct	8x 01 04 44 00 00 0p 0q FF	pq: See the VISCA Command Setting Values (AE Level) -50~50 0~100 XF605 1.0.3.1 No support(확인필요)
CAM_WB RGAINInq WB BGAIN XF605	8x 09 04 43 FF	y0 50 00 00 0p 0q FF	pq: See the VISCA Command Setting Values (R GAIN) section
	Up	8x 01 04 04 02 FF	
	Down	8x 01 04 04 03 FF	
CAM_WB RGAINInq	Direct	8x 01 04 44 00 00 0p 0q FF	pq: See the VISCA Command Setting Values (R GAIN) section
CAM_WB BGAINInq WB MANUAL XF605	8x 09 04 44 FF	y0 50 00 00 0p 0q FF	pq: See the VISCA Command Setting Values (B GAIN) section
	AUTO	8x 01 04 35 00 FF	
	One Push (Hold Off)	8x 01 04 35 03 FF	
CAM_WB BGAINInq	One Push (Hold On)	8x 01 04 10 05 FF	Stops auto white balance
WB MANUAL XF605	kelvin	8x 01 04 35 05 FF	3510K
	kelvin	8x 01 04 35 11 FF	3510K
	daylight	8x 01 04 35 12 FF	5600K
	tungsten	8x 01 04 35 13 FF	3200K
	wb_a	8x 01 04 35 14 FF	5600K
	wb_b	8x 01 04 35 15 FF	5600k
	Up	8x 01 04 35 16 FF	WB kelvin Setting Up(-1), Down(+1) pq: See the VISCA Command Setting Values (WB) section
	Down	8x 01 04 35 17 FF	
	Direct	8x 01 04 35 08 00 0p 0q FF	
CAM_WB GAINInq	8x 09 04 45 FF	y0 50 00 00 0p 0q FF	pq: See the VISCA Command Setting Values (GAIN) section

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CAM Info Display	On/Off	8x 01 06 06 10 FF	Turn On/Off Info screen (XF605 HDMI OSD on/off)
Pan_tilt Drive	Up	8x 01 06 01 VV WW 03 01 FF	VV: Pan speed 0x01 to 0x18 (00: Stop) WW: Tilt Speed 0x01 to 0x17, (00: Stop) YYYY: Pan Position ZZZZ: Tilt Position (center 0000) Refer to the section of the Pan/Tilt Position (for reference) of VISCA Command Setting Values.
	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	
	AbsolutePosition	8x 01 06 02 VV WW 0Y 0Y 0Y 0Z 0Z 0Z FF	
	RelativePosition	8x 01 06 03 VV WW 0Y 0Y 0Y 0Z 0Z 0Z FF	
	Home	8x 01 06 04 FF	
Pan_tilt PosInq	8x 09 06 12 FF	y0 50 0w 0w 0w 0w 0z 0z 0z 0z FF	wwwwww = Pan Position zzzz = Tilt Position
Camera Menu	Menu	8x 01 06 06 02 FF	Please use it after Display On CAM Info Display On (HDMI OUT On)
	Up	8x 01 7E 01 02 30 02 FF	
	Down	8x 01 7E 01 02 30 03 FF	
	Left	8x 01 7E 01 02 30 04 FF	
	Right	8x 01 7E 01 02 30 05 FF	
	Exit/Cancel	8x 11 06 06 03 FF	
	Enter	8x 11 06 06 03 FF	

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Command Set	Command	Command Packet	Comments
Inquiry Command	Command Packet	Inquiry Packet	Comments
CAM_TallyLamp	On/Off	8x 01 7E 01 0A 00 0p FF	p: 2h=On, 3h=Offf
CAM_TallyLampInq	8x 09 7E 01 0A FF	y0 50 02 FF	On
		y0 50 03 FF	Off

Pan/Tilt Position (for reference) for VISCA Command Setting Values

Pan

Angle (degrees)	Left	Right
	YYYY values	YYYY values
0	0000	0000
10	014D	FEB3
20	029A	FD66
30	03E7	FC19
40	0535	FACB
50	0682	F97E
60	07CF	F831
70	091D	F6E3
80	0A6A	F596
90	0BB7	F449
100	0D05	F2FB
110	0E52	F1AE
120	0F9F	F061
130	10ED	EF13
140	123A	EDC6
150	1387	EC79
160	14D5	EB2B
170	1622	E9DE

Tilt

Angle (degrees)	Up	Down
	ZZZZ values	ZZZZ values
0	0000	0000
5	00A6	FF5A
10	014D	FEB3
15	01F3	FE0D
20	029A	FD66
25	-	FCBF
30	-	FC19
35	-	FB72
40	-	FACB

[Position Value = (Angle * 8533) >> 8]

Focus Position (for reference) for VISCA Command Setting Values - XF605

Focus Ratio	Focus Distance	
0x1000	2000	∞
0x2000	1460	14.6m
0x3000	630	6.3m
0x4000	3900	3.9m
0x5000	280	2.8m
0x6000	220	2.2m
0x7000	170	1.7m
0x8000	140	1.4m
0x9000	120	1.2m
0xA000	100	1.0m
0xB000	90	0.9m
0xC000	80	0.8m
2000	2000	∞
1800	1800	1.8m
....
90	90	0.9m
80	80	0.8m

0x1000 이하값이면 Direct

AE Shutter Position (for reference) for VISCA Command Setting Values - XF605

AE Shutter	AE Shutter Distance	
0x00	4	1/4
0x01	8	1/8
0x02	15	1/15
0x03	30	1/30
0x04	34	1/34
0x05	40	1/40
0x06	48	1/48
0x07	50	1/50
0x08	60	1/60
0x09	75	1/75
0x0A	90	1/90
0x0B	100	1/100
0x0C	120	1/120
0x0D	150	1/150
0x0E	180	1/180
0x0F	210	1/210
0x10	250	1/250
0x11	300	1/300
0x12	360	1/360
0x13	420	1/420
0x14	500	1/500
0x15	600	1/600
0x16	720	1/720
0x17	840	1/840
0x18	1000	1/1000
0x19	1200	1/1200
0x1A	1400	1/1400
0x1B	1700	1/1700
0x1C	2000	1/2000

AE Gain Position (for reference) for VISCA Command Setting Values – XF605

Gain Ratio	Gain Distance	
0	-60	-6dB
1	-30	-3dB
2	0	0dB
3	30	3dB
4	60	6dB
5	90	9dB
6	120	12dB
7	150	15dB
8	180	18dB
9	210	21dB

AE GainLimit Position (for reference) for VISCA Command Setting Values – XF605

GainLimit Ratio	Gain Distance	
0x0F	-60	-6dB
0x0E	-30	-3dB
0x0D	0	0dB
0x0C	30	3dB
0x0B	60	6dB
0x0A	90	9dB
0x09	120	12dB
0x08	150	15dB
0x07	180	18dB
0x06	210	21dB

AE IRIS Position (for reference) for VISCA Command Setting Values – XF605

AE IRIS Ratio	IRIS Distance		
0x00	2000	F20	
0x01	1600	F16	
0x02	1500	F15	
0x03	1300	F13	
0x04	1200	F12	
0x05	1100	F11	XF605 Max
0x06	1000	F10	
0x07	950	F9.5	
0x08	870	F8.7	
0x09	800	F8.0	
0x0A	730	F7.3	
0x0B	670	F6.7	
0x0C	620	F6.2	
0x0D	560	F5.6	
0x0E	520	F5.2	
0x0F	480	F4.8	
0x10	440	F4.4	
0x11	400	F4.0	
0x12	370	F3.7	
0x13	340	F3.4	
0x14	310	F3.1	
0x15	280	F2.8	XF605 Min
0x16	260	F2.6	
0x17	240	F2.4	
0x18	220	F2.2	
0x19	190	F1.9	

AE Level Position (for reference) for VISCA Command Setting Values – XF605

AE Level Ratio	AE Level Distance	
0	-8	AE -2
1	-7	AE -1.75
2	-6	AE -1.5
3	-5	AE -1.25
4	-4	AE -1
5	-3	AE -0.75
6	-2	AE -0.5
7	-1	AE -0.25
8	0	AE 0
9	1	AE 0.25
10	2	AE 0.5
11	3	AE 0.75
12	4	AE 1
13	5	AE 1.25
14	6	AE 1.5
15	7	AE 1.75
16	8	AE 2

WB Rgain/Bgain Position (for reference) for VISCA Command Setting Values – XF605

WB gain Ratio	WB gain Distance	
0	-50	
1	-49	
2	-48	
...	...	
50	0	
51	1	
...	...	
99	49	
100	50	

WB kelvin Position (for reference) for VISCA Command Setting Values – XF605

WB kelvin Ratio	WB kelvin Distance	
0	2000	2000k
1	2020	2020k
2	2050	2050k
...	...	
50	4000	4000k
51	4080	4080k
...	...	
86	14290	14290k
87	15000	15000k