

Serial Control Command (RS232, Baudrate: 9600)

NO.	Function	Test item	Send command	Instruction
1	AddressSet	Broadcast	88 30 01 FF	Address setting
2	CAM_Power	On	8x 01 04 00 02 FF	Power ON/OFF
		Off	8x 01 04 00 03 FF	
3	CAM_Zoom	Stop	8x 01 04 07 00 FF	p = 0(low) - 7(high) pqrs: Zoom Position pqrs(max):4000
		Tele(Standard)	8x 01 04 07 02 FF	
		Wide(Standard)	8x 01 04 07 03 FF	
		Tele(Variable)	8x 01 04 07 2p FF	
		Wide(Variable)	8x 01 04 07 3p FF	
		Direct	8x 01 04 47 0p 0q 0r 0s FF	
4	CAM_Focus	Stop	8x 01 04 08 00 FF	p = 0(low) - 7(high) pqrs: Focus Position AF On/Off
		Far(Standard)	8x 01 04 08 02 FF	
		Near(Standard)	8x 01 04 08 03 FF	
		Far(Variable)	8x 01 04 08 2p FF	
		Near(Variable)	8x 01 04 08 3p FF	
		Direct	8x 01 04 48 0p 0q 0r 0s FF	
		Auto Focus	8x 01 04 38 02 FF	
		Manual Focus	8x 01 04 38 03 FF	
	Auto/Manual	8x 01 04 38 10 FF		
5	CAM_WB (white balance)	Auto	8x 01 04 35 00 FF	Normal Auto
		Indoor mode	8x 01 04 35 01 FF	Indoor mode
		Outdoor mode	8x 01 04 35 02 FF	Outdoor mode
		OnePush mode	8x 01 04 35 03 FF	One Push WB mode
		Manual	8x 01 04 35 05 FF	Manual Control mode
6	CAM_Rgain (red gain)	Reset	8x 01 04 03 00 FF	Manual Control of R Gain pq: 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	
7	CAM_Bgain (blue gain)	Reset	8x 01 04 04 00 FF	Manual Control of B Gain pq: 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	
8	CAM_AE (exposure mode)	Full Auto	8x 01 04 39 00 FF	Automatic Exposure mode
		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
		Bright	8x 01 04 39 0D FF	Bright Mode(Manual control)
9	CAM_MeteringMode	Average	8x 01 04 3A 00 FF	Average Metering
		Center-weighted	8x 01 04 3A 01 FF	Center-weighted Average Metering
10	CAM_Shutter	Reset	8x 01 04 0A 00 FF	Shutter Setting pq: Shutter Position
		Up	8x 01 04 0A 02 FF	
		Down	8x 01 04 0A 03 FF	
		Direct	8x 01 04 4A 00 00 0p 0q FF	
11	CAM_Iris	Reset	8x 01 04 0B 00 FF	Iris Setting pq: Iris Position
		Up	8x 01 04 0B 02 FF	
		Down	8x 01 04 0B 03 FF	
		Direct	8x 01 04 4B 00 00 0p 0q FF	
12	CAM_Gain	Reset	8x 01 04 0C 00 FF	Gain Setting pq: Gain Position p: Gain Position
		Up	8x 01 04 0C 02 FF	
		Down	8x 01 04 0C 03 FF	
		Direct	8x 01 04 0C 00 00 0p 0q FF	
		Gain Limit	8x 01 04 2C 0p FF	
13	CAM_Bright	Reset	8x 01 04 0D 00 FF	Bright Setting pq: Bright Position
		Up	8x 01 04 0D 02 FF	
		Down	8x 01 04 0D 03 FF	
		Direct	8x 01 04 0D 00 00 0p 0q FF	

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14	CAM_ExpComp	On	8x 01 04 3E 02 FF	Exposure Compensation On/Off
		Off	8x 01 04 3E 03 FF	
		Reset	8x 01 04 0E 00 FF	Exposure Compensation Amount Setting
		Up	8x 01 04 0E 02 FF	
		Down	8x 01 04 0E 03 FF	
		Direct	8x 01 04 4E 00 00 0p 0q FF	
15	CAM_BackLight	On	8x 01 04 33 02 FF	Back Light Compensation On/Off
		Off	8x 01 04 33 03 FF	
16	CAM_NR(2D) (2D noise reduction)	-	8x 01 04 53 0p FF	p: NR Setting (0: Off, level 1 to 5)
17	CAM_NR(3D) (3D noise reduction)	-	8x 01 04 54 0p FF	p: NR Setting (0: Off, level 1 to 5)
18	CAM_Gamma	-	8x 01 04 5B 0p FF	p: Gamma setting (0: Standard, 1 to 4)
19	CAM_Flicker	-	8x 01 04 23 0p FF	p: Flicker Settings (0: Off, 1: 50Hz, 2: 60Hz)
21	CAM_Aperture	Reset	8x 01 04 02 00 FF	Aperture 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	pq: Aperture Gain
22	CAM_PictureEffect	Off	8x 01 04 63 00 FF	Picture Effect Setting
		B&W	8x 01 04 63 04 FF	
23	CAM_Memory (preset)	Reset	8x 01 04 3F 00 pp FF	pp: Memory Number(=0 to 127)
		Set	8x 01 04 3F 01 pp FF	
		Recall	8x 01 04 3F 02 pp FF	
24	CAM_LR_Reverse (Image horizontal flip)	On	8x 01 04 61 02 FF	Image Flip Horizontal On/Off
		Off	8x 01 04 61 03 FF	
25	CAM_PictureFlip (Image vertical flip)	On	8x 01 04 66 02 FF	Image Flip Vertical On/Off
		Off	8x 01 04 66 03 FF	
26	CAM_RegisterValue	-	8x 01 04 24 mn 0p 0q FF	mm: Register No. (=00-7F) pp: Register Value (=00-7F)
27	CAM_ColorGain	Diret	8x 01 04 49 00 00 00 0p FF	p: Color Gain setting 0h (60%) to Eh (200%)
28	Information Display	On	8x 01 7E 01 18 02 FF	On/Off of the Operation status display of One Oush Trigger of CAM_Memory and CAM_WB
		Off	8x 01 7E 01 18 03 FF	
29	Pan_tiltDrive	Up	8x 01 06 01 VV WW 03 01 FF	VV: Pan speed 0x01 (low speed) to 0x18 (high speed) WW: Tilt speed 0x01 (low speed) to 0x14 (high speed) YYYY: Pan Position ZZZZ: Tilt Position
		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 0Y 0Z 0Z 0Z 0Z FF	
		RelativePosition	8x 01 06 03 VV WW 0Y 0Y 0Y 0Y 0Z 0Z 0Z 0Z FF	
		Home	8x 01 06 04 FF	
		Reset	8x 01 06 05 FF	

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30	Pan_tiltLimitSet	LimitSet	8x 01 06 07 00 0W 0Y 0Y 0Y 0Y 0Z 0Z 0Z 0Z FF	W: 1 UpRight 0: DownLeft YYYY: Pan Limit Position ZZZZ: Tilt Position
		LimitClear	8x 01 06 07 01 0W 07 0F 0F 0F 07 0F 0F 0F FF	
31	CAM_AFSensitivity	High	8x 01 04 58 01 FF	AF Sensitivity High/Normal/Low
		Normal	8x 01 04 58 02 FF	
		Low	8x 01 04 58 03 FF	
32	CAM_SettingReset	Reset	8x 01 04 A0 10 FF	Reset Factory Setting
33	CAM_Brightness	Direct	8x 01 04 A1 00 00 0p 0q FF	pq: Brightness Position
34	CAM_Contrast	Direct	8x 01 04 A2 00 00 0p 0q FF	pq: Contrast Position
35	CAM_Flip	Off	8x 01 04 A4 00 FF	Single Command For Video Flip
		Flip-H	8x 01 04 A4 01 FF	
		Flip-V	8x 01 04 A4 02 FF	
		Flip-HV	8x 01 04 A4 03 FF	
36	CAM_SettingSave	Save	8x 01 04 A5 10 FF	Save Current Setting
37	CAM_Iridix	Direct	8x 01 04 A7 00 00 0p 0q FF	pq: Iridix Position
38	CAM_AWBSensitivity	High	8x 01 04 A9 00 FF	High
		Normal	8x 01 04 A9 01 FF	Normal
		Low	8x 01 04 A9 02 FF	Low
39	CAM_AFZone	Top	8x 01 04 AA 00 FF	AF Zone weight select
		Center	8x 01 04 AA 01 FF	
		Bottom	8x 01 04 AA 02 FF	
40	CAM_DVIMode	HDMI	8x 01 04 AB 02 FF	DVI output mode, default: HDMI
		DVI	8x 01 04 AB 03 FF	
41	Menu call, confirm, exit	Call	81 01 04 3F 02 5F FF/81 01 06 06 10 FF	
		Confirm	81 01 04 0B 02 FF	
		Exit	81 01 04 0B 03 FF/81 01 06 06 10 FF	
42	CAM_Gamma (Gamma correction)	CAM_Gamma	8x 01 04 5B 0p FF	p: Gamma setting (0x00~0x0A)
43	Motion_Sync	On	8x 0A 11 13 02 FF	pq: Speed_stage
		Off	8x 0A 11 13 03 FF	
		Max_Speed	8x 0A 11 14 pq FF	
		Min_Speed	8x 0A 11 15 pq FF	