<BVC8300NV Camera Command List>

Item	Command	Parameter	Description
Exposure	exp␣[ChNum]	[ChNum] : Channel r/g/b	Acquire the current exposure time to be set for each channel
	exp␣[ChNum]␣[PRAM①]	[ChNum]: Channel r/g/b [PRAM①]: Exposure time 10 ～(Frame period – 10) μs	Set the exposure time for each channel 1μsec/ 1 step
Frame Periode	frame [ChNum]		Acquire the current frame rate to be set.
	frame␣[PRAM①]	[PRAM①]: Frame period 1000000～5000 μs	Set the frame rate . 1μsec/ 1 step
Trigger	trgmode		Acquire the current trigger mode to be set
	trgmode␣[PRAM①]	[PRAM①]: Trigger mode 0：No shutter mode 1：Shutter select mode 2: PWC Mode）	Select the trigger mode
	trgsource		Acquire the current trigger source to be set
	trgsource␣[PRAM①]	[PRAM①]: Trigger source 0：External trigger OFF 1：External trigger ON（CC1）	Select the trigger source
	trgpolarity		Acquire the current trigger polarity to be set
	trgpolarity␣[PRAM①]	[PRAM①]: Trigger polarity 0：Active Low 1：Active High	Select the trigger polarity
Balance White Manual	whitebalance		Acquire the current white balance setting to be set.
	whitebalance␣[PRAM①]	[PRAM①]: White balance 0：Default setting 1：User area 1 2：User area 2	Set the white balance or load the white balance setting stored in user area 1 or 2
Manual Bayer Color sensor channel White Balance	r_pixel_gain_a		Adjust the R pixel gain of Bayer Color channel (Bch) manually. The adjustment gain uses the following formula. R pixel gain = r_pixel_gain_a/2000 Note: Value is hex number
	r_pixel_gain_a [PRAM①]	[PRAM①] 1000～FFFF (Hex number)	
	b_pixel_gain_a		Adjust the B pixel gain of Bayer Color channel (Bch) manually. The adjustment gain uses the following formula. B pixel gain = b_pixel_gain_a/2000
	b_pixel_gain_a [PRAM①]	[PRAM①] 1000～FFFF (Hex number)	

			Note: Value is hex number
Balance White Auto	b_bayer_row_wb		Adjust the white balance by changing the Gain of R and B with reference to Gch. By inputting the setting 32, the gains of R and B are corrected and the white balance is adjusted. When adjusting the white balance again, set the setting in order from 0 to 32.
	b_bayer_row_wb [PRAM①]	[PRAM①] 0,32 0: OFF 32: Execute	
Black Level	blevel␣[ChNum]	[ChNum]: Channel r/g/b	Acquire the current black level value to be set
	blevel␣[ChNum]␣[PRAM①]	[ChNum]: channel r/g/b [PRAM①]	Set the black level for each channel
Gain	gain␣[ChNum]	[ChNum]: Channel r/g/b	Acquire the current gain to be set
	gain␣[ChNum]␣[PRAM①]	[ChNum]: Channel r/g/b [PRAM①]: 0 ～ 336	Set the gain for each channel 336 is +12dB
Shading	shading		Acquire the current shading setting number to be set
	shading␣[PRAM①]	[PRAM①] Setting number 0: No shading compensation 1: Factory default 2 ～3: User setting	Set the shading setting by [PRAM①]
	shadingadjust		Execute the Shading compensation
	shadingsave [PRAM①]	[PRAM①] Setting number 2～3	Save the adjusting value for the shading compensation in [PRAM①]
LUT	lutmode		Acquire the current LUT setting number to be set
	lutmode␣[PRAM①]	[PRAM①] Setting number 0：LUT disabled 1：LUT enabled	Set the LUT setting by [PRAM①]
	lut␣[ChNum] [PRAM①]	[ChNum] Channel r/g/b [PRAM①] Table value (Input)	Acquire the current output table value for the input value [PRAM①] to be set
	lut␣[ChNum] [PRAM①]␣[PRAM②]	[ChNum] Channel r/g/b [PRAM①] Table value(Input) 0～4095 [PRAM②] Table value(Output) 0～4095	Set the LUT table output value [PRAM②] against the LUT table input value [PRAM①]

	lutsave		Save the LUT table data
	lutdefault		Restore the LUT table data to the default settings(Initialization)
	lutdownload		Download the LUT table data from PC to the camera. (csv file format)
Test Pattern	tpmode		Acquire the current Test pattern setting number to be set
	tpmode␣[PRAM①]	[PRAM①] Setting number 0：Test pattern OFF 1: Color bar 2: H Gradation 3: V Gradation	Set the test pattern by [PRAM①]
cl_port_sel	cl_port_sel		The default setting "0" is the input for RGB frame grabber board. If the frame grabber board requires BGR input, this should be changed to "1".
	cl_port_sel [PRAM①]	[PRAM①] 0: RGB 1: BGR 2: GRB	
User Set	userset		Acquire the current camera setting number to be set
	userset␣[PRAM①]	[PRAM①] Setting number 0：Factory default setting （Cannot be changed） 1～2: User setting	Set the camera setting by PRAM①
	save␣[PRAM①]	[PRAM①] Setting number 1～2	Save the current camera settings in PRAM①
	default␣[PRAM①]	[PRAM①] Setting number 0～2	Set the camera settings when the camera is started up, by PRAM①
	factory␣[PRAM①]	[PRAM①] Setting number 1～2	Restore the setting in PRAM① to the factory default setting (Initialization)
Update	update [PRAM①]	[PRAM①] Update file Byte number	Execute the update of Firmware and FPGA
Information	baud [PRAM①]	[PRAM①] baud rate 115200 or 9600	Select the baud rate
	firmversion		Acquire the firmware information
	fpgaversion		Acquire the FPGA version
ROI	roi		Acquire current ROI ON/OFF information
	roi [PRAM①]	[PRAM①] ROI ON/OFF 0：OFF 1：ON	ROI ON/OFF setting
	hight		Acquire current height setting value
	hight [PRAM①]	[PRAM①] Height setting	Set the height value in [PRAM①]
	offsety		Acquire current start line number of ROI

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	offsety [PRAM①]	[PRAM①] Setting of Start line number of height	Set the start line number in [PRAM①]
Enhancer	enhancermode		Acquire the information of current enhancer mode
	enhancermode [PRAM①]	[PRAM①] Setting number 0～3 0 : Enhancer mode OFF 1 : Edge enhancer 2 : MTF correction 3 : Edge enhancer + MTF correction	Set the enhancer number in [PRAM①]。
	enhancergain [ChNum]	[ChNum] Sensor ch r/g/b	Acquire current enhancer gain value for R,G and B
	enhancergain [ChNum] [PRAM①]	[ChNum] Sensor ch, r/g/b [PRAM①] Gain value 0～100	Set the enhancer gain of R,G and B in [PRAM①]. Enhancer mode 1 and 3 are effective