

Global  
Shutter

# XBC-KZ33G Block Camera



## Features

- 1/2.9" Progressive Scan CMOS (Global Shutter)
- 120x AF Zoom (33x optical zoom, 12x digital zoom)
- 720P 60 / 50 / 30 / 25 fps
- Mechanical Day & Night
- True WDR, 3D DNR, Defog
- UART RS232-TTL (SONY/HITACHI/PELCO)
- LVDS / CVBS Outputs

Pin Assignment	Pin no.	J303(Micro Co-Axial) / KEL Co.USL00-30L-C
	1	TX_OUT3+
	2	TX_OUT3-
	3	TX_CLKOUT+
	4	TX_CLKOUT-
	5	TX_OUT2+
	6	TX_OUT2-
	7	TX_OUT1+
	8	TX_OUT1-
	9	TX_OUT0+
	10	TX_OUT0-
	11	GND
	12	TXD: CMOS 5.0V Send Data (Compatible 3.3V)
	13	RXD: CMOS 5.0V Read Data (Compatible 3.3V)
	14	+12VDC
	15	+12VDC
	16	+12VDC
	17	+12VDC
	18	+12VDC
	19	GND
	20	GND
	21	TX_OUT7+: Single out mode (open)
	22	TX_OUT7-: Single out mode(open)
	23	TX_OUT6+: Single out mode(open)
	24	TX_OUT6-:Single out mode(open)
	25	CVBS Output
	26	RESET_IN: Reset - Low (GND), Normal(1.8V)
	27	TX_OUT5+
	28	TX_OUT5-
	29	TX_OUT4+
	30	TX_OUT4-

Pin Assignment	Pin no.	J304(FFC Connector) / Molex : 54132-3633
	1	GND
	2	Y_OUT[0]
	3	Y_OUT[1]
	4	Y_OUT[2]
	5	Y_OUT[3]
	6	GND
	7	Y_OUT[4]
	8	Y_OUT[5]
	9	Y_OUT[6]
	10	Y_OUT[7]
	11	GND
	12	C_OUT[0]
	13	C_OUT[1]
	14	C_OUT[2]
	15	C_OUT[3]
	16	GND
	17	C_OUT[4]
	18	C_OUT[5]
	19	C_OUT[6]
	20	C_OUT[7]
	21	GND
	22	VSYNC
	23	HSYNC
	24	GND
	25	VCLK_OUT
	26	GND
	27	GND
	28	GND
	29	GND
	30	GND
	31	POWER IN: +12VDC
	32	POWER IN: +12VDC
	33	POWER IN: +12VDC
	34	GND
	35	TXD: CMOS 5.0V Send Data (Compatible 3.3V)
	36	RXD: CMOS 5.0V Read Data (Compatible 3.3V)



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Video System		XBC-KZ33G -
Image Sensor		1/2.9" SONY Progressive Scan Global Shutter CMOS
Effective Pixels		1.58MP 1456(H) x 1088(V)
Video Output Mode	Common	LVDS / Parallel / CVBS
Max. Video Resolution		LVDS / Parallel :720p@60 / 50 / 30 / 25fps
Synchronization System		Internal / External Option
Min.Illumination		
Min.Illumination		"Day mode: 0.1(Lux(F1.6) Night mode: 0.05Lux(F1.5/ IR-cut filter on) DSS OFF, AGC28dB"
S/N Rate		More than 52dB(AGC off, DSS off)
Lens		
Lens	Type	AF Optical zoom lens(DC Iris), IR Corrective
	Focal Length	f=4.6mm~152mm
	F-value	F1.6(W)~5.0(T)
	Angle of View	Horizontal 60.08°(W)~2.08°(T), Vertical 35.32°(W)~1.18(T)°
Zoom Ratio		Optical 33x / Digital 12x
Focus Min.Working Distance		0.01m(Wide)/1.5m(Tele)~∞
Focus Control		Auto/Manual/Interval/One Shot/Presets
Exposure		
AE mode		Auto/Shutter Priority/Iris Priority/Manual/Bright
Brightness		0~14
Manual Shutter		x32~x2(Low shutter), 1/30(25), 1/60(50)~1/30000
Manual Iris		F1.6~F19, Close
Sense-up		Off~32fields
ETC		Spot AE, Slow AE
Functions		
D&N Mode		Auto/Day(Color)/Night(BW)/External-H or L
White Balance		AUTO/ATW/Indoor/Outdoor/Push/Manual
Image Freeze		Off/On
Image Flip		Off/Horizontal/Vertical/H+V(180° Flip)
Privacy Mask Zone		16 Zones/14 mask color selectable, semi-transparency
Digital Image Stabilization		
Motion Detection		4 Zones
D-WDR		Off/Low/Middle/High
WDR		Off/Low/Middle/High
BLC		Off/On, Area selectable
HLC		Off/0~20, Color selectable
AGC		Max.58dB
Sharpness		Adjustable(0~15)
3D-DNR		On/Off(1~5)
2D-DNR		Auto/Manual
Defog		Off/Low/Middle/High
Presets Position		256 position Presets(Zoom,Focus), 16Memory Presets, Custom Preset
Language		English,Japanese,Russian,Spanish,German,France,Portuguese,Chinese
Communication		
UART	Remote	RS232 TTL +5.0V(+3.3V compatible)
	Protocol	VISCA/Pelco-D/Pelco-P/Hitachi: Automatic detection
	Baud rate	2400/4800/9600/19200/38400/57600/115200bps
UTC		TVI-UTC
Power		
Supply Voltage		12VDC(7V to 15VDC)
Power Consumption		Max.5.2W / Non-working zoom&focus 3.2W
Physical and Temperature		
Dimension (mm)		50X58.8X95.8mm
Weight		Approx.260g
Operating Temperature		-10°C~+50°C, Humidity(20~80%)
Storage Temperature		-20°C~+60°C, Humidity(20~95%)

Pin no.	CN302(CVBS) / Molex: 53261-0471
	POWER IN: +12VDC
	GND
	VIDEO: CVBS Output
	AD_KEY
Pin no.	CN307(RS-232 TTL) / JST: SM03B-SRSS-TB
1	GND
2	RxD: CMOS 3.3V Read Data
3	TxD: CMOS 3.3V Send Data
Pin no.	CN303(External D&N) / JST: SM03B-SRSS-TB
1	Ext_D&N: External D&N Input
2	GND
3	+3.3V Out(For sensor)
4	
Pin no.	CN301(External I/O) / Molex : 53261-1271
1	Vsync_OUT
2	Hsync_OUT
3	VCLK_OUT
4	GND
5	Vsync_IN
6	Hsync_IN
7	VCLK_IN
8	GND
9	Trig_Common
10	Trigger_IN
11	Strobe_Common
12	Strobe_IN



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