

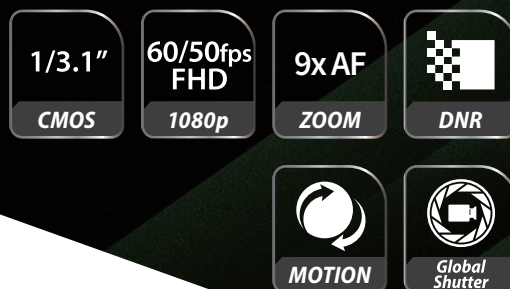
ATC 2MP High Resolution 9x Global Shutter Zoom Camera HZ8909Z-LC

LVDS / HD-SDI / EX-SDI(V1.0/ V2.0/ V2.1) / 3G-SDI(*) / CVBS



Features

- 1/3.1" Progressive Scan Global Shutter CMOS
- 108x AF Zoom (Optical 9x, Digital 12x)
- 1080p 60/50/30/25fps, 720p 60/50/30/25fps, 1080i 60/50fps
- Mechanical Day&Night
- 2D/3D DNR, Defog, DIS
- UART (VISCA, PELCO-D/P)



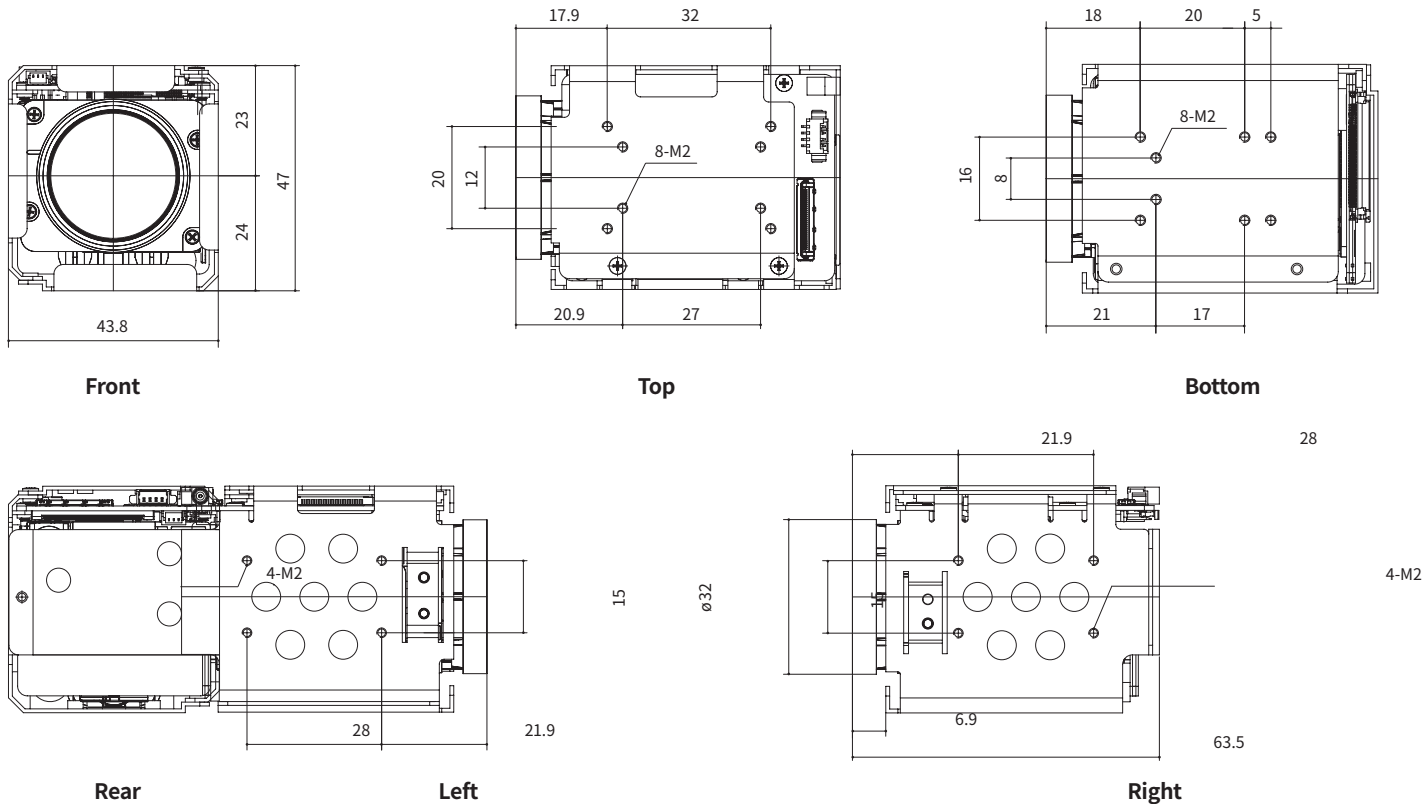
Specifications

Image Sensor		1/3.1" Progressive Scan Global Shutter CMOS
Effective Pixels		3.2MP 2064(H) x 1552(V)
Video Output Mode	Common	HD-SDI/EX-SDI(V1.0/V2.0/V2.1)/3G-SDI(*)/CVBS
	AVI/TVI/LVDS	LVDS
Max. Video Resolution		LVDS/EX-SDI/HD-SDI/3G-SDI(*): 1080p@60(50fps)
Synchronization system		Internal
Min. Illumination		Day : 0.03Lux(F1.7), Night : 0.01Lux(F1.7/ ICR on) Sens-Up off, AGC48dB
S/N Rate		More than 52dB(AGC off, Sens-Up off)
Lens	Type	AF Optical zoom lens(DC Iris), IR Corrective
	Focal Length	f=4.8mm~40.8mm
	F-value	F1.7(W)~F3.1(T)
	Angle of View	H 49.4°(W)~6.0°(T), V 28.4°(W)~3.4°(T)
Zoom ratio		Optical 9x / Digital 12x
Focus Min. Working Distance		0.01m(Wide)/1.0m(Tele)~∞
Focus Control		Auto/Interval/One Shot/Manual/Preset
AE Mode		Auto/Iris Priority/Shutter Priority/Manual
Brightness		1~20
Manual Shutter		1/1, 1/2, 1/4(3), 1/8(6), 1/15(12), 1/30(25), 1/60(50)~1/30000
Manual Iris		F1.6~F19, Close
Sense-up		Off~32fields
ETC		Slow AE
D&N Mode		Auto/Color(Day)/B&W(Night)/EXT-H/EXT-L
White Balance		Auto/Indoor/Outdoor/One push/ATW/Manual
Image Freeze		Off/On
Image Flip		Off/Horizontal/Vertical/H+V(180° Flip)
Privacy Mask Zone		8 Zones/14 mask color selectable

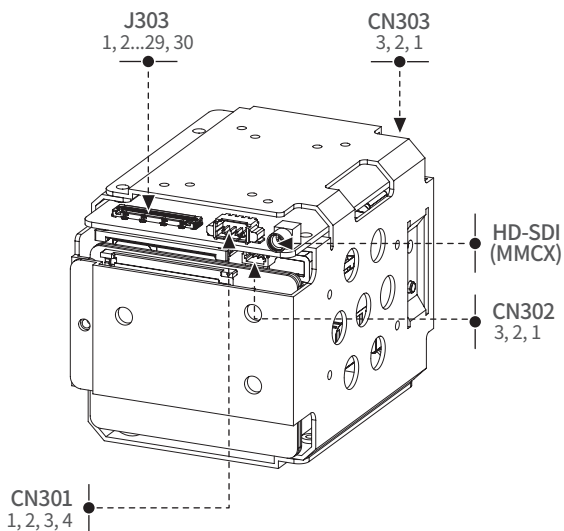
(*) 3G-SDI : Supported from firmware v 4.2.1 or later. Operation not guaranteed

Digital Image Stabilization		Off/On
Motion Detection		4 Zones
D-WDR		Off/Low/Middle/High
WDR		Low/Middle/High
BLC		Off/0~10, Area selectable
HLC		Off/0~20, Color selectable
AGC		Max.48dB
Sharpness		Adjustable(0~15)
3D-DNR		Off/Auto(Level:0~2)/Manual(Gain:0~255/THLD:0~255/FK:0~255)
2D-DNR		Off/Auto(Level:0~2)/Manual(Gain:0~255/THLD:0~255)
Defog		Off/On(Low/Middle/High)
Position Preset		Non-volatile 192 position(zoom/focus) presets. 16-presets & custom preset
Language		English, Russian, Spanish, German, French, Portuguese, Chinese, Japanese
UART	Remote	+5.0V(option: +3.3V)
	Protocol	VISCA, PELCO-D/P: Auto detection
	Baud rate	2400/4800/9600/19200/38400/57600/115200bps
Supply Voltage		12VDC(9V to 15VDC)
Power Consumption		Max.5.1W / Non-working zoom&focus 2.8W
Dimension(mm)		43.8x47x63.5mm
Weight		Approx.140g
Operating Temperature		-10°C~+50°C, Humidity(Less than 90%)
Storage Temperature		-20°C~+60°C, Humidity(Less than 90%)
Remark		

Dimension



Pin Assignment



- 5 V : Default level
- 3.3 V : Available on request (factory option)
- RXD input : Accepts both 5 V and 3.3 V signals (tolerant)

Jack	SDI Output connector / MMCX Jack Connector
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Pin no.	CN301(CVBS) / Molex: 53261-0471
1	POWER IN : +12VDC
2	GND
3	VIDEO : CVBS Output
4	AD_KEY

Pin no.	CN302(UART) / 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)

Pin no.	J303(Micro Co-Axial) / KEL Co-USL00-30L-A
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(*1) : 5.0V(option 3.3V)
13	RXD(*1) : 5.0V(option 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+ : Single out mode (open)
28	TX_OUT5- : Single out mode (open)
29	TX_OUT4+ : Single out mode (open)
30	TX_OUT4- : Single out mode (open)