

CVBS / LVDS / Parallel

ATC-HZ5509W-LP

FHD 3.19MP High Resolution
9x Global Shutter Zoom Camera



features

- 1/1.8" Progressive Scan Global Shutter CMOS
- 108x AF Zoom
(9x optical zoom, 12x digital zoom)
- 1080p 60/50/30/25fps
- Trigger In / Strobe Out
- Mechanical Day&Night
- True WDR, 3D DNR, Defog
- External Synchronization
- UART RS232-TTL (Pelco-D/P, VISCA, AFP/EAP)

1/1.8"

CMOS

60/50fps
FHD

1080p

9x AF

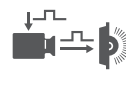
ZOOM



DNR



MOTION



Trigger In /
Strobe Out



External
sync



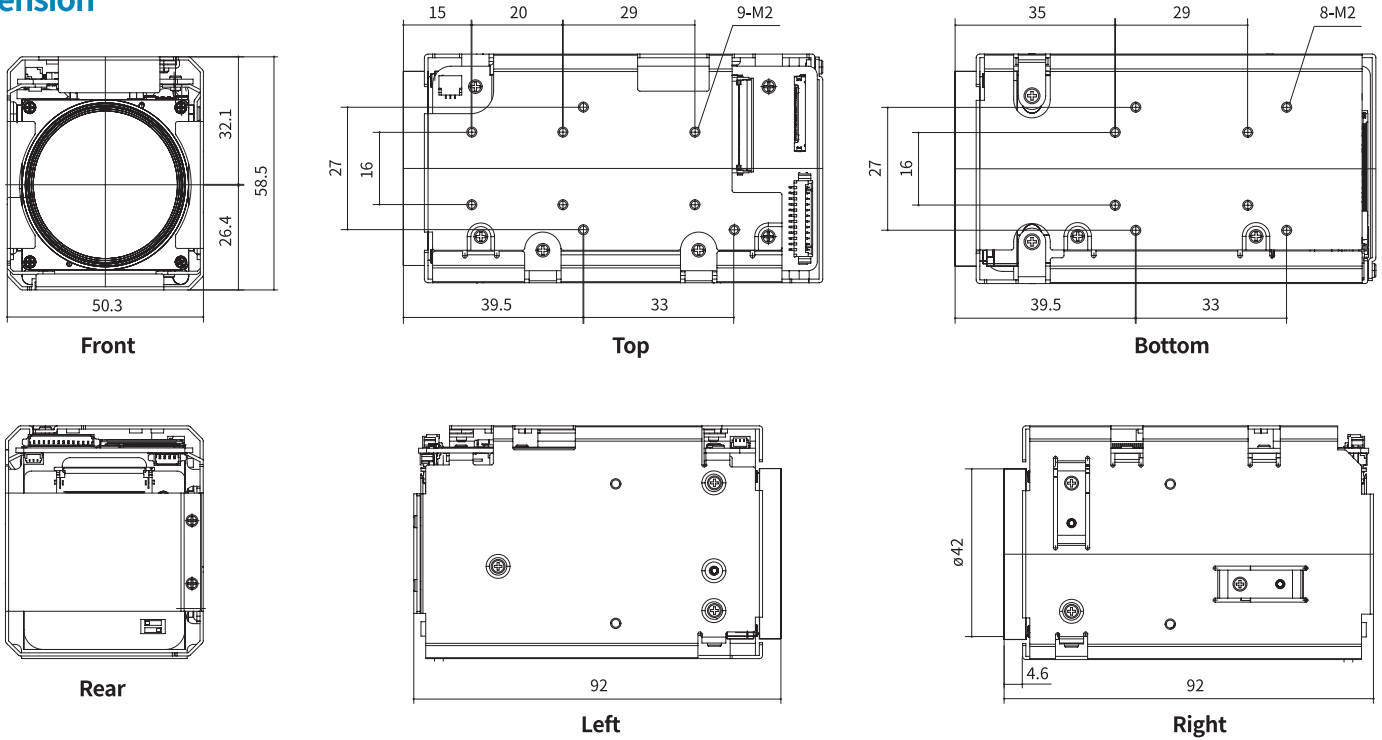
GLOBAL
SHUTTER

Specifications

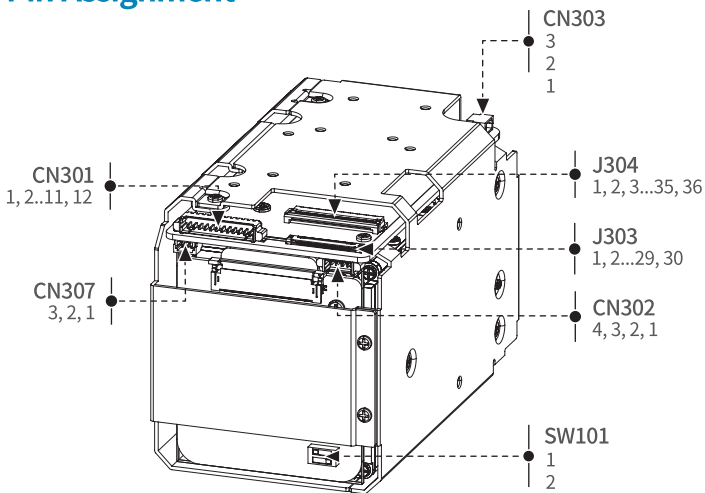
Image Sensor		1/1.8" Progressive Scan Global Shutter CMOS
Effective Pixels		3.19MP 2064(H) x 1544(V)
Video Output Mode	Common	CVBS / LVDS / Parallel
Max. Video Resolution		LVDS / Parallel : 1080p@60(50fps)
Synchronization system		Internal / External
Min.Illumination		Day mode: 0.1Lux(F1.5) Night mode: 0.05Lux(F1.5/ICR on) Sens-Up off, AGC45dB
S/N Rate		More than 55dB(AGC off, Sens-Up off)
Lens	Type	AF Optical zoom lens(DC Iris), IR Corrective
	Focal Length	f=8.0mm~70mm
	F-value	F1.5(W)~2.1(T)
	Angle of View	Horizontal 50°(W)~5.6°(T), Vertical 37.6°(W)~4.3°(T)
Zoom ratio		Optical 9x / Digital 12x
Focus Min.Working Distance		0.1m(Wide)/0.5m(Tele)~∞
Focus Control		Auto/Interval/One Push/Manual/Preset
AE Mode		Auto/Shutter Priority/Iris Priority/ AGC Priority/Manual
Brightness		0~20
Manual Shutter		1/1, 1/2, 1/4(3), 1/8(6), 1/15(12), 1/30(25), 1/60(50)~1/10000
Manual Iris		F1.6~F32, Close
Sense-up		Off~32fields
ETC		Spot AE, Slow AE
D&N Mode		Auto/Day(Color)/Night(BW)/EXT-H/EXT-L
White Balance		AUTO/One Push/Indoor/Outdoor/ATW/Manual
Image Freeze		Off/On
Image Flip		Off/Horizontal/Vertical/H+V(180° Flip)
Privacy Mask Zone		8 Zones/14 mask color selectable

Digital Image Stabilization	Yes	
Motion Detection	4 Zones	
D-WDR	Off/On/Auto(Low/Middle/High)	
WDR	Off/On, Adjustable (Strength:0~29, WDR Tonemap:0~5, Bright:0~30, AGC MAX:1~50, WDR Sharpness: 0~20, WDR Contrast: 0~20, WDR Saturation: 0~20, WDR Auto : On/Off)	
BLC	Off/On, Area selectable	
HLC	Off/On, Area selectable	
AGC	Max.48dB	
Sharpness	Adjustable(0~20)	
3D-DNR	Off/Auto/Low/Middle/High	
2D-DNR	Off/Auto/Low/Middle/High	
Defog	Off/On/Auto(Low/Middle/High)	
Preset	192 position Presets(Zoom,Focus), 16Memory Presets, Custom Preset	
Language	English	
UART	Remote	RS232 TTL +5.0V(+3.3V compatible)
	Protocol	VISCA, PELCO-D/P, AFP/EAP:Auto Detection
	Baud rate	2400/4800/9600/19200/38400/57600/115200bps
Supply Voltage	12VDC(9V to 15VDC)	
Power Consumption	Max7.4W / Non-working zoom&focus 4.9W	
Dimension(mm)	50.3x58.4x92.0mm	
Weight	Approx.253g	
Operating Temperature	-10°C~-50°C, Humidity(Less than 90%)	
Storage Temperature	-20°C~-60°C, Humidity(Less than 90%)	
Remark		

Dimension



Pin Assignment



SW101 is fixed the sensor slave
Switch 1: OFF, Switch 2: ON
It cannot be operated when using
the other settings.

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_OUT

Pin no.	CN302(CVBS) / Molex: 53261-0471
1	POWER IN: +12VDC
2	GND
3	VIDEO: CVBS Output
4	AD_KEY

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.	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.	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+ : 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)

Pin no.	J304(FFC Connector) / Hirose : FH12-36S-05SH(55)
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)