

LVDS / Parallel / CVBS

ATC-HZ8940T-LP

FHD 2MP High Resolution
40x Global Shutter Zoom Camera



features

- 1/3.1" Progressive Scan Global Shutter CMOS
- 480x AF Zoom
(40x optical zoom, 12x digital zoom)
- 1080p 60/50/30/25fps
720p 60/50/30/25fps, 1080i 60/50fps
- Trigger In / Strobe Out
- Mechanical Day&Night
- True WDR
- 2D/3D DNR, Defog, DIS
- UART RS232-TTL (PELCO-D/P, VISCA)

1/3.1"

CMOS

60/50fps
FHD

1080p

40x AF

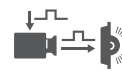
ZOOM



DNR



MOTION



Trigger In /
Strobe Out



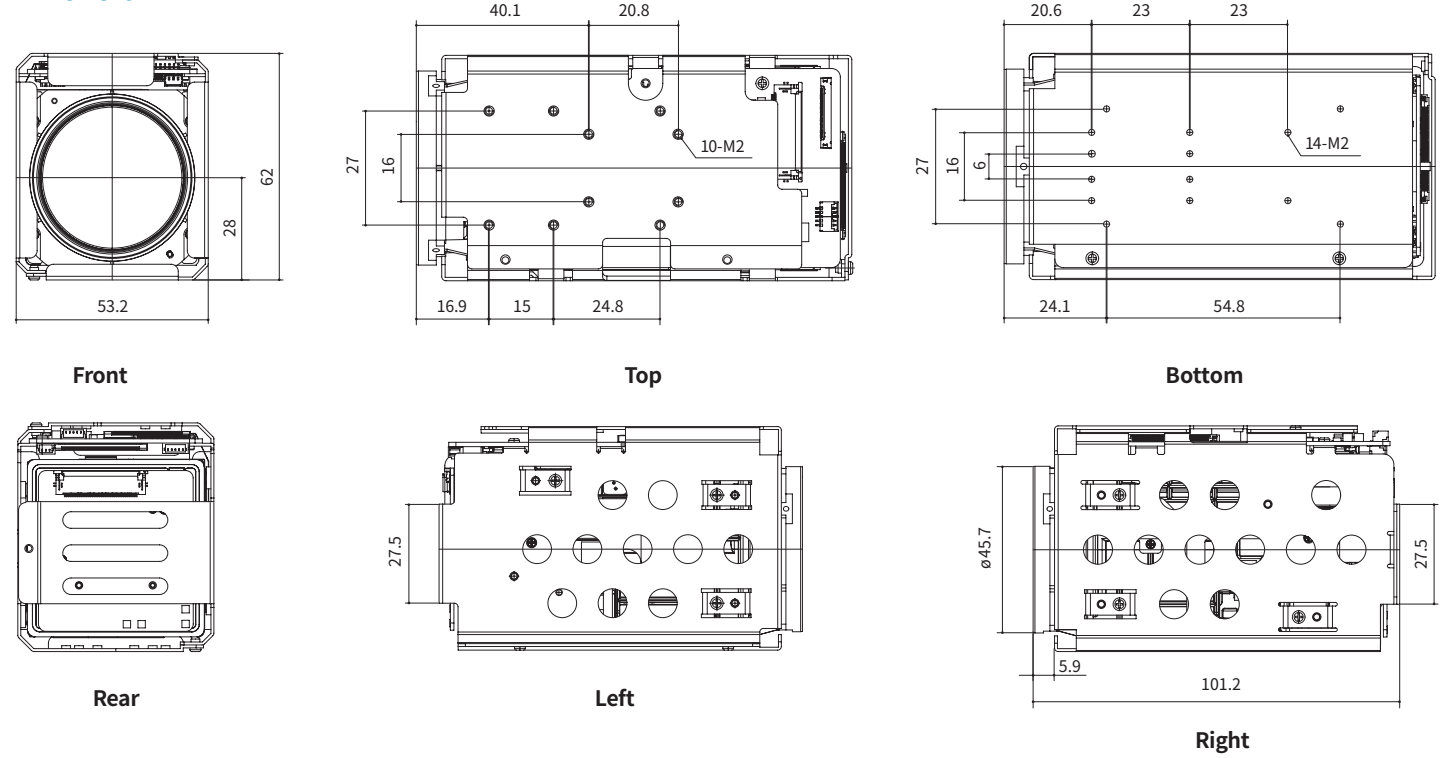
GLOBAL
SHUTTER

Specifications

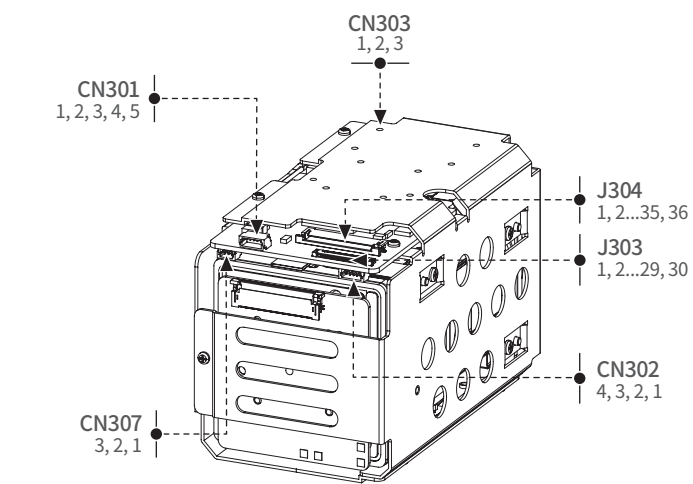
Image Sensor		1/3.1" Progressive Scan Global Shutter CMOS
Effective Pixels		3.2MP 2064(H) x 1552(V)
Video Output Mode	Common	LVDS/Parallel/CVBS
Max. Video Resolution		LVDS/Parallel :1080p@60(50fps)
Synchronization system		Internal
Min.Illumination		Day : 0.03Lux (F1.6), Night : 0.01 (F1.6/ ICR on)
S/N Rate		More than 52dB(AGC off, Sens-Up off)
Lens	Type	AF Optical zoom lens(DC Iris), IR Corrective
	Focal Length	f=4.25mm~170mm
	F-value	F1.6(W)~4.95(T)
	Angle of View	H 56.33°(W)~1.59°(T), V 43.59°(W)~1.21°(T)
Zoom ratio		Optical 40x / Digital 12x
Focus Min.Working Distance		0.01m(Wide)/3.0m(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 response
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

Digital Image Stabilization		Yes
Motion Detection		4 Zones
D-WDR		Off/Low/Middle/High
WDR		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)
Trigger Input		Off/Normal
Strobe Output		Off/Free Run
Preset Position		192 position Presets(Zoom, Focus), 16Memory Presets, Custom Preset
Language		English, Russian, Spanish, German, French, Portuguese, Chinese, Japanese
UART	Remote	RS232 TTL +5.0V(+3.3V compatible)
	Protocol	VISCA, PELCO-D/P:Auto Detection
	Baud rate	2400/4800/9600(default)/19200/38400/57600/115200bps
Supply Voltage		12VDC(9V to 15VDC)
Power Consumption		Max.6.9W / Non-working zoom&focus 3.2W
Dimension(mm)		53.2x62x101.2mm
Weight		Approx.315g
Operating Temperature		-10°C~+50°C, Humidity(Less than 90%)
Storage Temperature		-20°C~+60°C, Humidity(Less than 90%)
Remark		

Dimension



Pin Assignment



Pin no.	CN301(Trigger & Strobe) / JST: SM05B-SRSS-TB
1	Trigger_Common
2	Trigger_IN
3	Strobe_Common
4	Strobe_OUT
5	GND

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.	CN302(CVBS) / Molex: 53261-0471
1	POWER IN: +12VDC
2	GND
3	VIDEO: CVBS Output
4	AD_KEY

Pin no.	CN307(RS-232 TTL) / JST: SM03B-SRSS-TB
1	GND
2	RXD: CMOS 5.0V Read Data (Compatible 3.3V)
3	TXD: CMOS 5.0V Send Data (Compatible 3.3V)

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)