

MIPI / CVBS

ATC-HZ5528W-M

**FHD 3.19MP High Resolution
28x Global Shutter Zoom Camera**



features

- 1/1.8" Progressive Scan Global Shutter CMOS
- 336x AF Zoom (28x optical zoom, 12x digital zoom)
- 1080p 60/50/30/25fps
- Mechanical Day&Night
- True WDR
- 3D DNR, Defog
- UART RS232-TTL (PELCO-D/P, VISCA, AFP/EAP)
- MIPI CSI-2(4 Lane)

1/1.8"

CMOS

**60/50fps
FHD**

1080p

28x AF

ZOOM

CSI-2

MIPI



DNR



MOTION



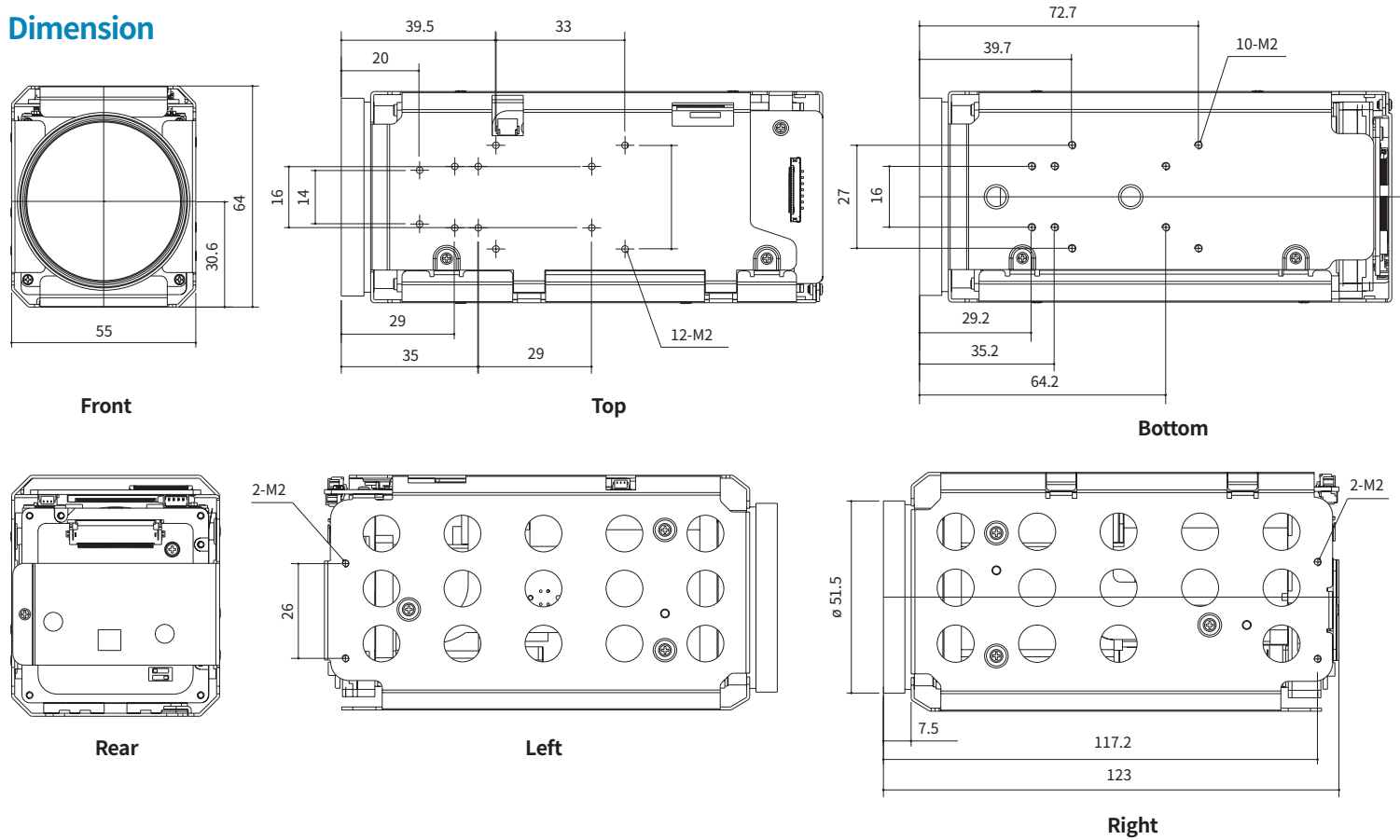
GLOBAL SHUTTER

Specifications

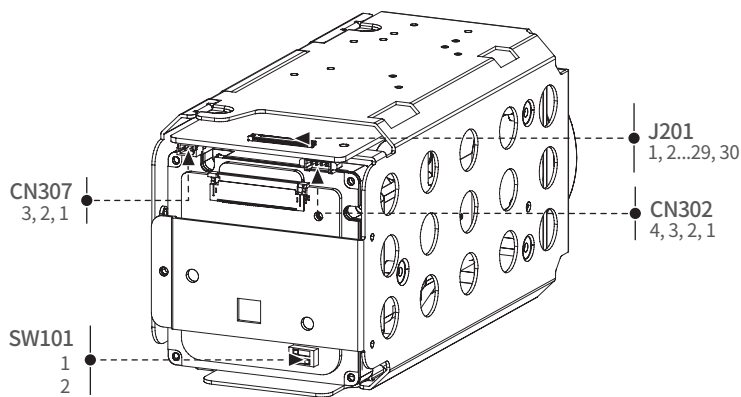
Image Sensor		1/1.8" Progressive Scan Global Shutter CMOS
Effective Pixels		3.19MP 2064(H) x 1544(V)
Video Output Mode	Common	MIPI CSI-2(4 Lane) / CVBS
Max. Video Resolution		MIPI:1080p@60(50fps)
Synchronization system		-
Min.Illumination		Day : 0.1Lux(F1.6), Night : 0.05Lux(F1.6/ ICR on) Sens-Up off, 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=6.7mm~190mm
	F-value	F1.6(W)~4.7(T)
	Angle of View	H 54.3°(W)~2.0°(T), V 31.5°(W)~1.1°(T)
Zoom ratio		Optical 28x / Digital 12x
Focus Min.Working Distance		0.1m(Wide)/1.0m(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/ATW/Indoor/Outdoor/Push/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:0~50, 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
MIPI	CSI-2(4 Lane)	
Supply Voltage	12VDC(9V to 15VDC)	
Power Consumption	Max.5.9W / Non-working zoom&focus 4.2W	
Dimension(mm)	55x64x123mm	
Weight	Approx.380g	
Operating Temperature	-10°C~+50°C, Humidity(Less than 90%)	
Storage Temperature	-20°C~+60°C, Humidity(Less than 90%)	
Remark		

Dimension



Pin Assignment



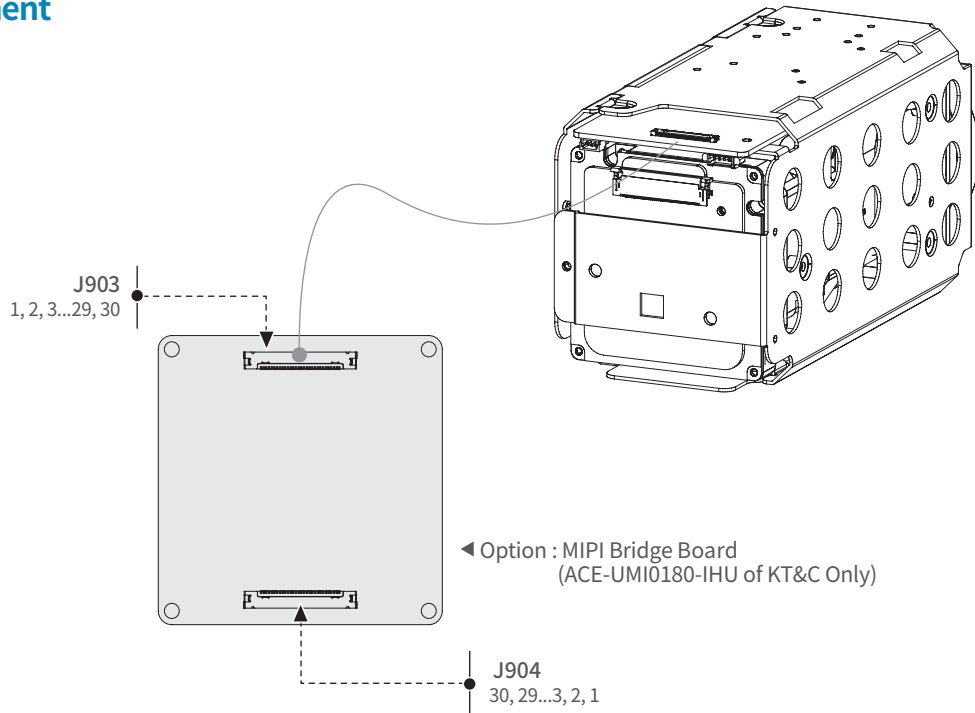
SW101 is fixed the sensor slave
(Switch 1: OFF, Switch 2: ON)
It cannot be operated when using
the other settings.

Pin no.	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 3.3V Read Data
3	TXD : CMOS 3.3V Send Data

Pin no.	J201(MIPI) / KEL Co.USL00-30L-C
1	GND
2	CSI0_MCLK
3	NC
4	GND
5	CSI0_I2C_SCL
6	CSI0_I2C_SDA
7	GND
8	NC
9	NC
10	GND
11	NC
12	NC
13	GND
14	MIPI_CSI_3-
15	MIPI_CSI_3+
16	MIPI_CSI_2-
17	MIPI_CSI_2+
18	MIPI_CSI_CLOCK-
19	MIPI_CSI_CLOCK+
20	MIPI_CSI_1-
21	MIPI_CSI_1+
22	MIPI_CSI_0-
23	MIPI_CSI_0+
24	RXD : CMOS 3.3V Read Data
25	TXD : CMOS 3.3V Send Data
26	RESET_IN : Reset - Low(GND), Normal(1.8V)
27	+12VDC
28	+12VDC
29	+12VDC
30	+12VDC

Pin Assignment



Pin no.	J903(MIPI) / KEL Co.USL00-30L-C (Camera Part)
1	+12VDC
2	+12VDC
3	+12VDC
4	+12VDC
5	RESET_IN : Reset - Low(GND), Normal(1.8V)
6	TXD : CMOS 3.3V Send Data
7	RXD : CMOS 3.3V Read Data
8	MIPI_CSI_0+
9	MIPI_CSI_0-
10	MIPI_CSI_1+
11	MIPI_CSI_1-
12	MIPI_CSI_CLK+
13	MIPI_CSI_CLK-
14	MIPI_CSI_2+
15	MIPI_CSI_2-
16	MIPI_CSI_3+
17	MIPI_CSI_3-
18	GND
19	NC
20	NC
21	GND
22	NC
23	NC
24	GND
25	CSI0_I2C_SDA
26	CSI0_I2C_SCL
27	GND
28	NC
29	CSI0_MCLK
30	GND

Pin no.	J904(MIPI) / KEL Co.USL00-30L-C (Smart-AI Carrier Part)
1	NC
2	NC
3	GND
4	RESET_IN
5	UART_RXD(3.3V)
6	UART_TXD(3.3V)
7	GND
8	CSI0_I2C_SDA
9	CSI0_I2C_SCL
10	GND
11	MIPI_CSI_D3-
12	MIPI_CSI_D3+
13	GND
14	MIPI_CSI_D2-
15	MIPI_CSI_D2+
16	GND
17	MIPI_CSI_CLK-
18	MIPI_CSI_CLK+
19	GND
20	MIPI_CSI_D1-
21	MIPI_CSI_D1+
22	GND
23	MIPI_CSI_D0-
24	MIPI_CSI_D0+
25	GND
26	CSI0_MCLK
27	GND
28	GND
29	+12VDC
30	+12VDC