

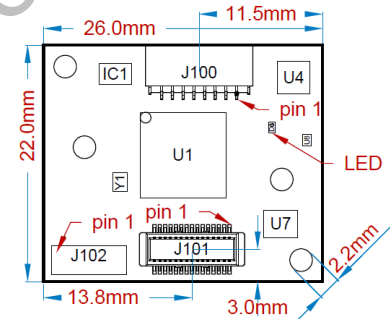
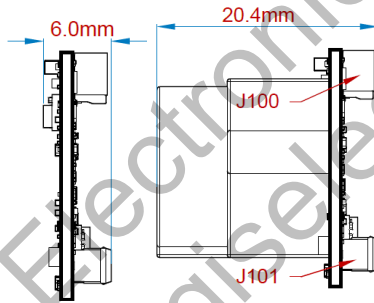
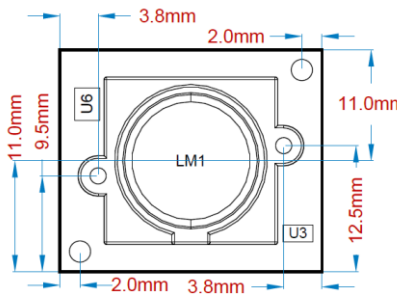
1080p Mini CMOS Color Camera Series
with MIPI, BT.1120 and AHD/TVI output

Product Features

- 1/2.7" CMOS sensor.
- Small stackable board design (22mm x 26mm).
- AHD/TVI HD Transmission up to 500m (1600ft.)
- Wide Dynamic Range
- Controllable via I²C
- PCB-PCB connector for Add-on boards
- Pinhole, M12 and CS lens mount options
- Digital output
 - 4 lane MIPI (1080p @ 30fps or 25fps) (720p @ 30fps or 25fps)
 - BT.1120 (1080p @ 30fps or 25fps)



Dimensions and Connectors



J100 Power / Control / Video

01	Reserved NC
02	Ground
03	I ² C SDA
04	I ² C SCL
05	Video Ground
06	Video Out (TVI/AHD)
07	Ground
08	Power In 5V

J102 Interface Control

01	ADC input
02	Reserved NC
03	Ground
04	Reserved NC
05	Reserved NC
06	Reserved NC

J101 PCB to PCB connector MIPI

01	Ground	16	MIPI D0 P
02	Ground	17	Reserved NC
03	MIPI Clock P	18	MIPI D0 N
04	MIPI D3 P	19	PCLK
05	MIPI Clock N	20	Reserved NC
06	MIPI D3 N	21	Reserved NC
07	Reserved NC	22	Ground
08	MIPI D2 P	23	HSYNC
09	Reserved NC	24	VSYNC
10	MIPI D2 N	25	Reserved NC
11	Reserved NC	26	ADC input
12	MIPI D1 P	27	I ² C SDA
13	Reserved NC	28	I ² C SCL
14	MIPI D1 N	29	Video Out
15	Reserved NC	30	Power In 5V

J101 PCB to PCB connector BT.1120

01	Ground	16	DOUT 6
02	Ground	17	DOUT 15
03	DOUT 8	18	DOUT 7
04	DOUT 0	19	PCLK
05	DOUT 9	20	Reserved NC
06	DOUT 1	21	Reserved NC
07	DOUT 10	22	Ground
08	DOUT 2	23	HSYNC
09	DOUT 11	24	VSYNC
10	DOUT 3	25	Reserved NC
11	DOUT 12	26	ADC input
12	DOUT 4	27	I ² C SDA
13	DOUT 13	28	I ² C SCL
14	DOUT 5	29	Video Out
15	DOUT 14	30	Power In 5V



Excellence.
Every day. Every time.

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Technical specifications

Opto-Electrical

Image sensor	1/2.7" CMOS Sensor
Active Pixels	1960 x 1120
Pixel size	3.0µm x 3.0µm
Effective image size	5.88 mm x 3.36 mm (diagonal 6.77mm)
Scanning system	Progressive
Shutter type	Rolling
Framerate	25fps / 30fps
Analog Output Format	1920 x 1080 (AHD or TVI) 1280 x 720 (AHD)
Digital Output MIPI 4 lanes (148.5 MHz MIPI clock)	1920 x 1080 1280 x 720 <i>Other configurations available upon request. MOQ may apply.</i>
Digital Output BT.1120 (74.25 MHz clock)	1920 x 1080 <i>Other configurations available upon request. MOQ may apply.</i>
Aspect ratio	16:9
Dynamic range	120 dB
Signal to Noise ratio	44.9 dB
Sensitivity	< 0.5 lux
Video output interfaces	AHD / TVI / MIPI / BT.1120

Electrical

Supply Voltage	5V ± 0.75V
Current typical/max.	210mA / 250mA
Power typical/max.	1.05W / 1.25W

Communication

I ² C interface	3.3V (4.7 kΩ pull-up resistors)
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HD transmission distance

TVI/AHD single ended 75Ω	Up to 500m (1600ft.) with high quality cable.
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Environmental

Operating Temp.	-40°C ~ 60°C (-40°F ~ 140°F)
Storage Temp.	-40°C ~ 85°C (-40°F ~ 185°F)
Operating Humidity	30% ~ 90% RH
Storage Humidity	<85% RH

Mechanical

Dimensions WxHxD	26x22x7.25 mm
Weight	3g or 13g (with M12 lens mount)
Connectors	J100 - 8 pin Würth 665108131822 J101 - 30 pin Molex 501920-3001 J102 - 6 pin JST SM06B-SURS-TF

Accessories (included)

60C1041	6.89in (175mm) 8-pin JST with flying leads
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I²C communication kit (Optional)

60C5-D	I ² C communication Kit for 24C24xW
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Part numbering

24C24XW-A-B (MIPI + AHD or TVI)	
24C24XW-A-DIG-B (BT.1120 output)	
X	2 - M12 Pinhole lens mount. 5 - M12 lens mount. 7 - No lens mount. 8 - CS lens mount.
A	A - AHD + MIPI T - TVI + MIPI
B	P - 1920 x 1080 (25 fps) N - 1920 x 1080 (30 fps) P1 - 1280 x 720 (25 fps) AHD + MIPI Only N1 - 1280 x 720 (30 fps) AHD + MIPI Only

