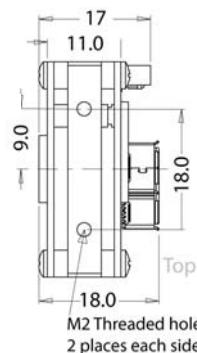
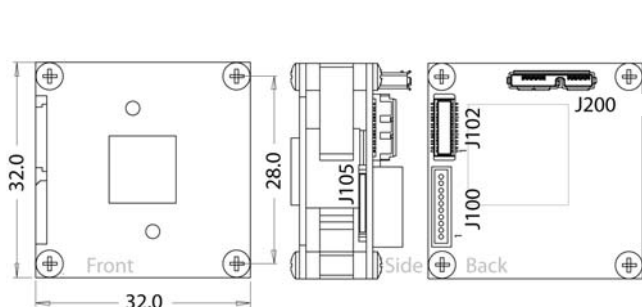


### Product Features

- USB3 AND Digital 10 bit parallel (BT.1120) outputs concurrently or individually
- Backwards compatible with USB 2.0 ports
- Global Shutter mitigates loss of information or "blur" due to motion in scene
- Binning/Skipping/ Region of Interest
- 1.2MP Square Pixels / Progressive Scan
- Industrial Grade Sensor assures Long Life & Reliability



USB 3.0 Shown with optional lens



J102 – Molex- 501920-3001	
01	GND
02	GND
03	Y0
04	UV0
05	Y1
06	UV1
07	Y2
08	UV2
09	Y3
10	UV3
11	Y4
12	UV4
13	Y5
14	UV5
15	Y6
16	UV6
17	Y7
18	UV7
19	CLOCK
20	UV8
21	Reserved
22	GND
23	HREF
24	VREF
25	Y8
26	UV9
27	I2C-SDA
28	I2C-SCL
29	Y9
30	VIN(+5V)

J100 JST-BM10B-SRSS-TB	
01	GPIO0
02	GPIO1
03	GPIO2
04	GPIO3
05	GPIO4
06	GPIO5
07	GPIO6
08	GPIO7
09	GND
10	+5V

#### USB 3.0

USB 3.0 Micro-B

### Technical Specifications

Electrical		25C1.2XU3	
Image Sensor		CMOS 1/3" 1.2MP	
Recording Pixels		1280 x 960	
Pixel / Image Size		3.75µm	
Scanning System		Progressive	
Shutter Type		Global Shutter, automatic/fixd	
Resolution/ Frame Rate	USB 3.0	1.2MP (1280x960) 720p (1280x720) (1280 x 480) VGA (640x480)	54/50/30/25 fps 72/60/50/30/25 fps 25/30 fps 106/100/60/50/30/25 fps
	USB 2.0	720p (1280 x 720) (1280 x 480) VGA (640x480)	25/30 fps 25/30 fps 25/30 fps
Pixel Clock Rate		74.25MHz	
Sensitivity		< 0.1 Lux	
Signal to Noise Ratio		40.7dB	
Gain		Fixed / auto	
BLC		On / Off weighted regions	
Gamma		Range from 0.45 - 1.00	
Edge Enhancement		On / Off	
Synchronization		Internal	
Mirror/Flip		Horizontal & Vertical On/Off	
Video Output	Digital	Y/out (10-bits @ 74.25MHz)	
	USB 3.0	8 bits	
Supplied Voltage		+4.5 – 5.5V	
Current Drawn		425mA (@5V)	
Power Consumption		1.9W (max 2.1W)	
Communication		I <sup>2</sup> C	
Dynamic Range		71.1dB linear	

### Environmental

Operating Temperature	-15°C ~ 60°C (5°F ~ 131°F)
Operating Humidity	20% ~ 90%
Storage Temperature	-40°C ~ 80°C (-40°F ~ 176°F)
Storage Humidity	30% ~ 90%
Lifetime MTBF	> 150,000 hrs.
Packaging	ESD safe package

### Mechanical

Dimensions (WxHxD) (no lens mount)	32mm x 32mm x 20mm (1.26" x 1.26" x 0.8")		
Weight	40g (1.4oz) (no lens mount)		
Lens Mounts	Replace "X" in model number with desired lens:		
Example: Change 25C1.2XU3 to 25C1.25U3 to select an M-12 board mount.	2 = Metal M-12 Pinhole	5 = Metal M-12 Board	8 = Metal CS Board
Connectors	J100 JST-BM10B-SRSS-TB J102 Molex-501920-3001 USB	GPIO/ Power (10pin) Digital Video Output (30pin) USB 3.0 Micro-B	

### I<sup>2</sup>C Communication Kit

60C6-U	Software control I <sup>2</sup> C program kit includes: I <sup>2</sup> C board, Program cable, Camera control software
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### Optional Model

25C1.2X-DIG	Single digital video output version Please contact a Videology sales representative for details
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