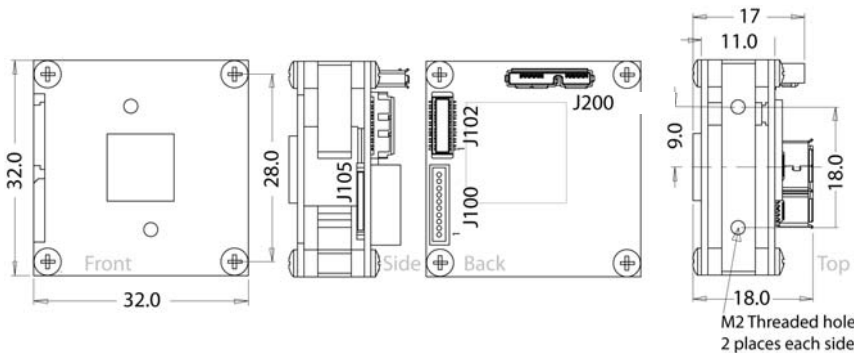


Product Features

- USB3 AND Digital 10 bit parallel (BT1120) outputs concurrently or individually
- Global Shutter mitigates loss of information or "blur" due to motion in scene
- Binning/Skipping/ Region of Interest
- 1.2MP Square Pixels / Progressive Scan
- Near IR Sensitivity to 1.1 Micron
- Industrial Grade Sensor assures Long Life & Reliability



USB 3.0 Shown with optional lens



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)

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	25B1.2XU3
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	1.2MP (1280x960) 54/50/30/25 fps 720P (1280x720) 72/60/50/30/25 fps VGA (640x480) 106/100/60/50/30/25 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) USB3.0 output: 8 bits
Supplied Voltage	+4.5 - 5.5V
Current Drawn	305mA (@5V)
Power Consumption	1.53W (max 1.75W)
Communication	I ² C
Dynamic Range	71.1dB linear

I²C Communication Kit (TBD)

Software control I²C program kit includes:
I²C board, Program cable, Camera control software

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 25B1.2XU3 to 25B1.25U3 to select an M-12 board mount.	2 = Metal M-12 Pinhole	5 = Metal M-12 Board	8 = Metal CS Board
Connectors	J100	J102	USB
	JST-BM10B-SRSS-TB	Molex-501920-3001	
			GPIO/ Power (10pin) Digital Video Output (30pin) USB 3.0 Micro-B

Optional Model

25B1.2X-DIG	Single digital video output version Please contact a Videology sales representative for details
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