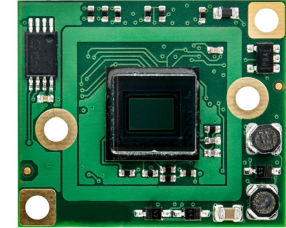


Product Features

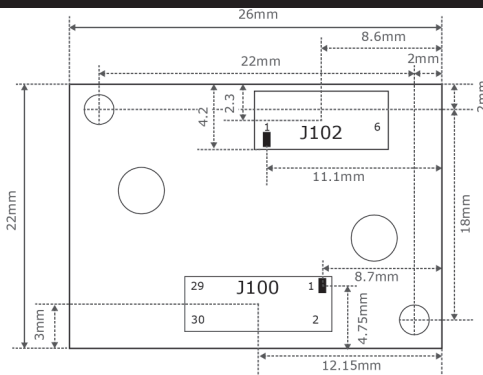
- 22mm x 26mm mini-board
- Delivers 8-Bit DIGITAL YUV & composite video output simultaneously
- Mirror and flip mode option
- I²C Software controllable features & functions
- Up to 4 overlay images can be stored to SPI FLASH (Overlays require special tooling to produce)
- White balance: AWB and push set
- Lens mounts: metal CS, M12 board or pinhole
- Optional USB (see complimentary models)



RHPC-2500



8-Bit Digital & Composite
1/4" CMOS Color Board Camera
Front View



Digital YUV Output

J100 Connector 30pin MOLEX-501920-3001

01	GROUND	11	YUV4 CCIR656	21	NC
02	GROUND	12	NC	22	GROUND
03	YUV0 CCIR656	13	YUV5 CCIR656	23	Test signal do not use
04	NC	14	NC	24	Test signal do not use
05	YUV1 CCIR656	15	YUV6 CCIR656	25	NC
06	NC	16	NC	26	NC
07	YUV2 CCIR656	17	YUV7 CCIR656	27	I2C data
08	NC	18	NC	28	I2C clock
09	YUV3 CCIR656	19	Data Clock	29	NC
10	NC	20	NC	30	+5V power supply in

Analog Output

J102 Connector 6pin vertical JST: BM06B-SRSS

06	I2C data
05	I2C clock
04	Ground
03	CVBS out
02	Ground
01	Power in (5V)

Remove analog connector (J102) in order to mate directly to USB board)

Technical Specifications

Electrical	RHPC 2500 NTSC
Image Sensor	1/4" CMOS
Resolution (HxV)	640 x 480 max
Frame Rate	30fps
Sensitivity	< 0.05 lux, (50 IRE) F1.2, 3200°K, lens transmission 80%, scene reflection 75%
Signal to Noise Ratio	> 46 dB digital output
Gamma	0.45 default
Gain Control	Automatic 36 dB (AGC default) or Fixed options via software
Scan Mode	Interlaced
Mirror Mode	Selectable via software
Synchronization	Internal
Back Light Compensation	Default off (selectable via software)
White Balance Mode	AWB (fixed modes selectable via software)
Contour Enhancement	Default on
Iris Control	Electronic Rolling Shutter
Shutter Speed	Automatic from 1/60 to 1/100,000
Video Outputs	8-bit digital YUV 4:2:2 @ CCIR656 CVBS
Control communication	I ² C control
Power supply	5VDC +/- 5% (not polarity protected)
Power consumption	< 0.8W

I²C Communication Kit (Optional)

kit includes: I²C board, program cable, USB cable, camera control software

Environmental

Operating Temp.	-40°C ~ 50°C (-40°F ~ 122°F)
Operating Humidity	20% ~ 93%
Storage Temp.	-40°C ~ 90°C (-40°F ~ 194°F)
Storage Humidity	Up to 98% RH
Lifetime MTBF	> 150,000 hrs
Packaging	ESD safe package

Mechanical

Dimensions WxHxD	26mm x 22mm x 11mm w/o lens (1" x 0.87" x 0.43")
Weight	6.4g (0.23 oz)
Lens Mounts	Replace "X" in model number with desired lens:
	Metal M-12 Pinhole
	Metal M-12 Board
	Metal CS Board
Connectors	Power/ analog video/ 6pin mount I ² C connector Vertical JST: BM06B-SRSSJ102
Remove analog connector J102 in order to mate USB board	Power/ video/ digital YUV, all in a 30 pole board to board connector MOLEX-501920-3001 Board to Board J100 connector (J102) MOLEX-52991-0308 Mating part, must be used on the application side

Accessories

Included	6 pin cable with flying leads
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