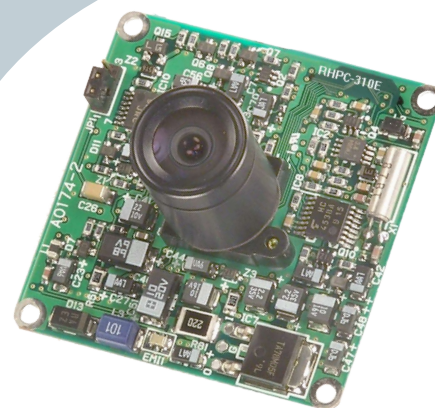


1/4" High Resolution Monochrome Board Camera

RHPC-310E

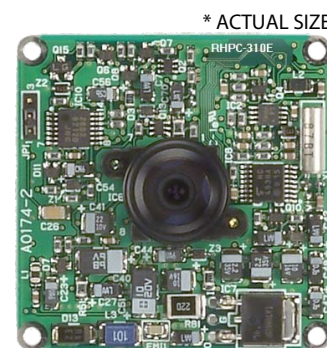
- 1/4" Monochrome *Super* HAD CCD
- 42x42mm Single Board Camera
- Internal or External Synchronization
- 12Volt DC Operation
- Low Smear
- Parameters Controllable On PC Board
- Backlight Compensation - Full Screen or Center
- Electronic Iris - Auto or OFF
- Automatic Gain Control - ON or MANUAL



RHPC-310E (EIA)
RHPC-315E (CCIR)

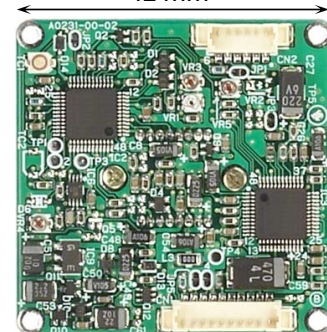
Specifications	RHPC-310E (EIA)	RHPC-315E (CCIR)
Image Sensor	1/4" Inter-line Type CCD Image Sensor / SONY <i>Super</i> HAD CCD	
Scanning System	2 : 1 Interlace	
Total Number of Pixels	811 (H) x 508 (V)	795 (H) x 596 (V)
Effective Pixel Elements	768 (H) x 494 (V) Approx. 380k Pixels	752 (H) x 582 (V) Approx. 440k Pixels
Lens - Standard	Fixed Iris Mini-Lens 3.0mm, F2.8 - Other Lens Options Available	
Synchronization	Internal or External Selectable Via Switch	
External Synchronization	Video Drive or Line Lock	
Video Output	Composite / 1 Vp-p 75 Ω	
Horizontal Resolution	More than 570 Lines	More than 570 Lines
Min. Illumination	0.5 Lux (Video Output 50%, AGC ON, F1.2)	
S/N Ratio	45 dB or better	
Electronic Iris (Auto)	1/60 ~ 1/100,000 Sec. or Fixed at 1/60 Sec. Via Contacts	1/50 ~ 1/100,000 Sec. or Fixed at 1/50 Sec. Via Contacts
Electronic Shutter	N/A	
Horizontal Drive Freq.	15.734 kHz (NTSC)	
Vertical Drive Freq.	59.94 Hz (NTSC)	
Gamma Characteristics	0.45	
AGC (Auto Gain Control)	Automatic or Manual Selectable Via Jumper	
BLC (Back Light Comp.)	Full Screen or Center Selectable via Contacts	
Auto Iris lens Output	DC & Video Type	
Power Requirements	DC 12Volts +/- 1Volt	
Current Consumption	Max 150 mA (at DC 12Volts)	
Storage Temp. Humidity	-20°C ~ +60°C - Max. 90% (No Condensation)	
Operating Temp. Humidity	-5°C ~ +40°C - Max. 80% (No Condensation)	
Dimensions	42 (W) x 42 (L) x 22.5 (H) mm	
Weight	Approx. 15g	

Dimensions 42x42mm



* ACTUAL SIZE

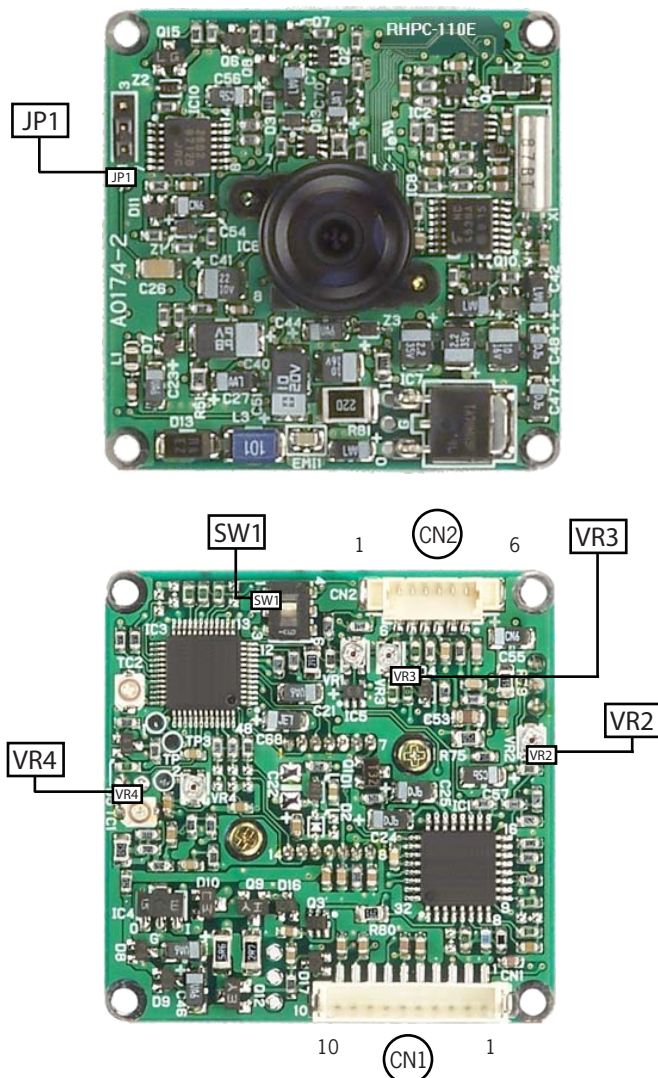
42 mm



* Actual photo size may vary depending on print scaling

** Specifications and availability of products
are subject to change without notice

RHPC-310E - Connections



- CN1** - Function Connector (#BM06B-SRSS-TB)
- | | |
|-----------------------|--------|
| CN1-1 - L/L Signal IN | Green |
| CN1-2 - GND | Black |
| CN1-3 - Ext. SYNCH IN | Blue |
| CN1-4 - GND | Black |
| CN1-5 - DC +12V IN | Red |
| CN1-6 - IRIS OUT | Yellow |
| CN1-7 - VIDEO OUT | White |
| CN1-8 - GND | Black |
| CN1-9 - E/E Mode | Orange |
| CN1-10 - BLC | Gray |

- CN2** - 6 PIN MOLEX
- | | |
|-----------------|--------|
| CN2-1 - Drive + | Yellow |
| CN2-2 - Drive - | Orange |
| CN2-3 - Dump - | Brown |
| CN2-4 - Dump + | Red |
| CN2-5 - VR a | Gray |
| CN2-6 - VR b | Gray |

JP1 - AGC / Manual Gain

SW1 - L/L SYNC

VR2 - Manual Gain

VR3 - DC Iris Lens Level Adjustment

VR4 - Ext. SYNC Phase Adjustment