

## 1/3" High Resolution Monochrome Board Camera

### RHPC-370A / RHPC-375A

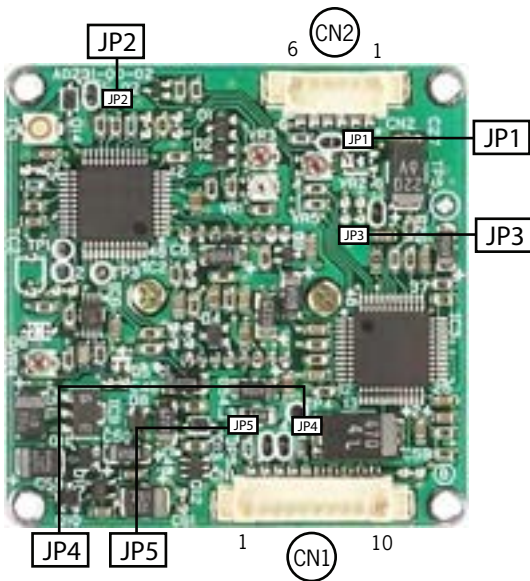
- 1/3" Monochrome *Super HAD* CCD
- 42x42mm Single Board Camera
- Internal or External Synchronization
- 12Volt DC Operation
- Low Smear
- Parameters Controllable via Jumpers & Contacts
- Backlight Compensation - Full Screen or Center
- Electronic Iris - Auto or OFF
- Automatic Gain Control - ON or OFF



**RHPC-370A (EIA)**  
**RHPC-375A (CCIR)**

| Specifications           | RHPC-370A (EIA)                                                    |  | RHPC-375A (CCIR)                                                   | Dimensions 42x42mm                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|--------------------------------------------------------------------|--|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor             | 1/3" Inter-line Type CCD Image Sensor / SONY Super HAD CCD         |  |                                                                    | <div><p>* ACTUAL SIZE</p><p>42 mm</p><p>42 mm</p><p>* Actual photo size may vary depending on print scaling</p><p>** Specifications and availability of products are subject to change without notice</p></div> |
| 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. 370k Pixels                              |  | 752 (H) x 582 (V) Approx. 440k Pixels                              |                                                                                                                                                                                                                                                                                                                                                                                           |
| Lens - Standard          | Fixed Iris Mini-Lens 3.6mm, F5 - Other Lens Options Available      |  |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                           |
| Synchronization          | Internal / External Video Drive or Line Lock                       |  |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                           |
| 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        | 0.2 Lux (Video Output 50%, AGC ON, F1.4)                           |  |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                           |
| S/N Ratio                | 46 dB or better                                                    |  |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                           |
| Electronic Iris (Auto)   | 1/60 ~ 1/100,000 Sec. or Fixed at 1/60 Sec. Via Contacts or Jumper |  | 1/50 ~ 1/100,000 Sec. or Fixed at 1/50 Sec. Via Contacts or Jumper |                                                                                                                                                                                                                                                                                                                                                                                           |
| 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)  | ON or OFF Selectable Via Jumper                                    |  |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                           |
| BLC (Back Light Comp.)   | Full Screen or Center Selectable via Contacts or Jumper            |  |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                           |
| Auto Iris lens Output    | DC & Video Type                                                    |  |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                           |
| Power Requirements       | DC 12Volts +/- 1Volt                                               |  |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                           |
| Current Consumption      | Max 120 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 21.5 (H) mm                                      |  |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                           |
| Weight                   | Approx. 16g                                                        |  |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                           |

## RHPC-370A - Connections



- CN1** - I/O Connector (#53398-1010 (molex))
- CN1-1 - N.C
  - CN1-2 - BLC ON/OFF (OPEN: OFF=FULL, GND: ON=CENTER)
  - CN1-3 - E/E ON/OFF (OPEN: ON, GND: OFF)
  - CN1-4 - GND
  - CN1-5 - VIDEO OUTPUT
  - CN1-6 - VIDEO IRIS OUTPUT
  - CN1-7 - GND
  - CN1-8 - DC +12Volt Input
  - CN1-9 - EXT. SYNC INPUT (V.S.)
  - CN1-10 - N.C

- CN2** - DC IRIS Connector (#53398-0610 (molex))
- CN2-1 - DRIVE+
  - CN2-2 - DRIVE-
  - CN2-3 - DUMP-
  - CN2-4 - DUMP+
  - CN2-5 - VR(a) \*E/E Adjust Volume for DC Iris Lens (100k  $\Omega$ )
  - CN2-6 - VR(b)

- JP** - Jumper
- JP1 - N.A
  - JP2 - N.A
  - JP3 - AGC ON/OFF
  - JP4 - E/E ON/OFF
  - JP5 - BLC ON/OFF