Module Characteristics

- Supports most 12mm CCD camera lens
- 164 x 124 pixel black and white image
- Small 2” x 2” format with mounting holes
- 9-15 VDC supply @ 35 ma
- Minimum illumination 0.1 Lux
- 36 dB S/N ratio
- Easy to use 20 pin ribbon cable
- Operating Temperature -20° to 70° C

General description

The RoboCam RC-1 is a digital CMOS imager module employing advanced technology suitable for industrial automation, robotics and machine vision tasks. The module uses VISION’s VV5300 CMOS image sensor and makes the output of this sensor available on a .100” dual-row 20 pin ribbon cable connector.

The imager module is composed of a 164 x 124 B/W pixel array integrated using CMOS VLSI technology. An on-board two-stage flash A/D converter samples each pixel in succession and outputs a digital image in 1, 4 or 8 bits per pixel. The module supports frame rates from .3 f/s to 60 f/s.

The RoboCam RC-1 module can be configured for automatic operation. When so configured, the sensor compensates for variable lighting conditions by internally controlling gain and exposure settings. The module is configured and controlled via a two wire serial interface. This interface allows reading and writing to all internal registers of the VV5300. Manual control of gain and exposure is also possible by controlling internal registers via the two wire serial interface. Users must provide an adequate interface to the module to capture the digital image stream. Refer to data sheets of the VLSI VV5300 for detailed information regarding the VV5300 sensor.