

Features

- ½" Super HAD CCD* Imager
- 768 x 494 (EIA); 752 x 582 (CCIR)
- Asynchronous capture
- High sensitivity with micro lens
- Shutter Speed (1/60-1/31,000)
- 56 dB (AGC Off)
- Compact Size and lightweight
- AGC/MGC selectable
- Gamma 1.0/0.45 selectable
- Frame/Field mode selectable
- Long term frame integration



Description

Asynchronous Capture – UM-200/UM-201 family camera is very similar to UM100/UM101 family, except it has the asynchronous capture capability which allows the image to be captured at very high shutter speed without smearing. Providing an external random reset (5V TTL) trigger to the 12-pin connector on the rear plate will reset and capture the image.

Easy access - The rotary switch located on rear plate can easily change various shutter speeds for asynchronous reset applications. The asynchronous reset input pinout is located on 12-pin connector. AGC/MGC, Gamma 1.0/0.45, and Frame/Field mode selections are also available on the rear plate.

Camera Interface – UM-200/UM-201 is compatible with all-standard RS-170 frame grabbers and TV monitors.

Applications

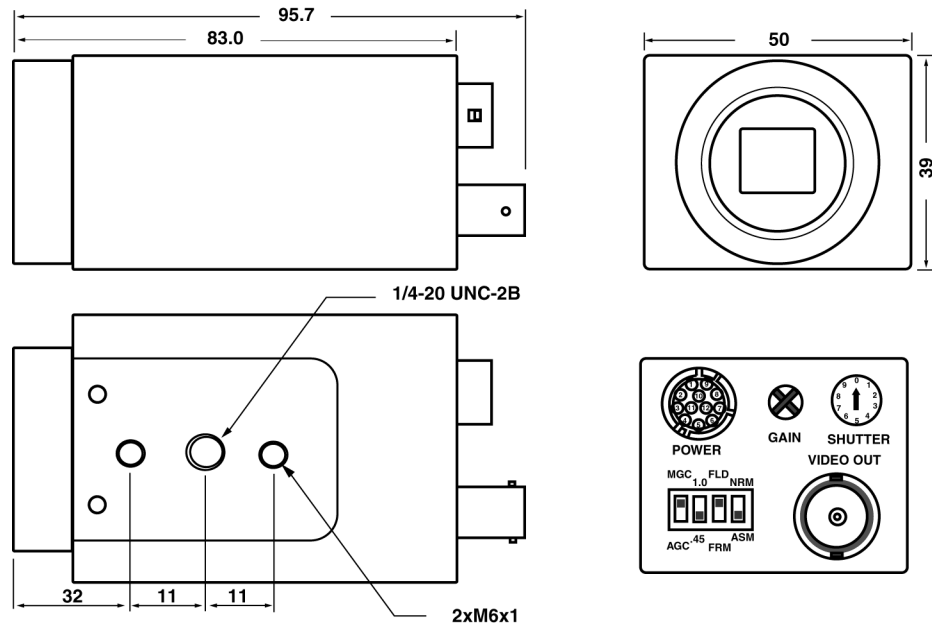
UM-200/UM-201 applications include machine vision, automated inspection, monitoring, bar code reading, biomedical imaging, non-contact measurement, microscopy, surveillance, and other scientific and industrial applications.

* Super HAD CCD is a registered trademark of Sony Corporation.

Specifications:

| Model | UM-200 (EIA) | UM-201 (CCIR) |
|--------------------------|--|--|
| CCD Sensor | 1/2" Interline-Transfer Super HAD CCD | |
| Chip Size | 6.4 mm x 4.8 mm | |
| Effective Pixels (H x V) | 768 x 494 | 752 x 582 |
| Unit Cell Size (H x V) | 8.4 mm x 9.8 mm | 8.6 mm x 8.3 mm |
| Scanning | 525 TV lines, 2:1 Interlaced or Non-interlaced | 625 TV lines; 2:1 Interlaced or Non-interlaced |
| Synchronization | HD: 15.734KHz; VD: 59.94.0Hz | HD: 15.625KHz; VD: 50Hz |
| TV Resolution | H: 570 TV Lines; V: 375 TV Lines | H: 560 TV Lines; V: 450 TV Lines |
| S/N Ratio | 56dB (AGC OFF, Gamma 1.0) | |
| Min. Illumination | 0.05 lux | |
| Video Output | 1 V p-p, 75ohm (BNC or 12 pin Hirose) | |
| AGC | AGC/MGC selectable | |
| Gamma | Gamma 0.45/1.0 selectable | |
| Frame Mode | Frame/Field Mode selectable | |
| Electronic Shutter | 1/60 ~ 1/31,000 selectable | |
| Lens Mount | C-Mount | |
| Operating Temperature | -10 °C ~ +55 °C | |
| Power Requirement | 12V DC, 210mA, 2.5W | |
| Dimension | 50mm x 39mm x 83mm | |
| External Synchronization | Internal/External Auto Switch | |
| Asynchronous Capture | Standard | |
| Low Speed Shutter | 2 FLD ~ 16 FLD (Optional) | |
| Long Term Integration | 1/30 sec. ~ 2 sec. (user control) | |

Dimensions:



Unit: mm

Note: Specifications are subject to change without notice