



ST-402ME

Typical Specifications



| CCD | |
|--------------------|--------------------------|
| CCD | Kodak KAF-0402ME |
| Pixel Array | 765 x 510 pixels |
| CCD Size | 6.9 x 4.3 mm |
| Total Pixels | 390,000 |
| Pixel Size | 9 x 9 microns |
| Full Well Capacity | ~100,000e- |
| Dark Current | 1e- / pixel / sec at 0°C |
| Antiblooming | Optional |

| Readout Specifications | |
|----------------------------|---|
| Shutter | Electromechanical |
| Exposure | 0.09 to 3600 seconds, 10ms resolution |
| Correlated Double Sampling | Yes |
| A/D Converter | 16 bits |
| A/D Gain | 1.5e- unbinned, 2.0e- binned 2x2, 3x3 (1.0e- and 1.4e- for ABG CCD) |
| Read Noise | 13.8e- RMS Typical |
| Binning Modes | 1 x 1, 2 x 2, 3 x 3 |
| Pixel Digitization Rates | Up to 800,000 pixels per second with USB 2.0 |
| Full Frame Download | <1 second |

| System Specifications | |
|------------------------|--|
| Cooling – enhanced | Single Stage Thermoelectric, Active Fan, -30°C from Ambient Typical |
| Cooling – standard | Single Stage Thermoelectric, Active Fan, -20°C from Ambient Typical |
| Temperature Regulation | ±0.1°C |
| Power | 12VDC, power supply included |
| Computer Interface | USB 2.0 (USB 1.1 compatible) |
| Computer Compatibility | <ul style="list-style-type: none"> • Windows 98 / 2000 / Me / XP • Mac OSX |

| Physical Dimensions | |
|---------------------|--|
| Optical Head | 5 x 4 x 2.5 inches (including fan) |
| CPU | All electronics integrated into Optical Head, No CPU |
| Mounting | T-Thread, 1.25" nosepieces included |
| Weight | Approx. 20 oz. (0.6kg) |
| Backfocus | 0.69 inches (C-mount compatible) |

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