

P/N: 29420-202

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions.



| | |
|----------------------------|---|
| Detector data | |
| Detector Type | FLIR Indium Antimonide (InSb) |
| Spectral Range | 1.5 – 5.0 μm |
| Resolution | 640 x 512 |
| Detector Pitch | 25 μm |
| Thermal Sensitivity/NETD | < 20 mK |
| Well Capacity | 11.0 M electrons |
| Operability | > 99.8% (> 99.95% typical) |
| Sensor Cooling | Closed cycle rotary |
| Electronics | |
| Readout Type | Snapshot |
| Readout Modes | Asynchronous integrate while read Asynchronous integrate then read |
| Synchronization Modes | Genlock, Sync-in, Sync-out |
| Image Time Stamp | Internal IRIG-B decoder clock TSPI accurate time stamp |
| Integration Time | 270 ns to 687 sec |
| Pixel Clock | 355 MHz |
| Frame Rate (Full Window) | Programmable; 0.0015 Hz to 502 Hz |
| Subwindow Mode | Flexible windowing down to 64 x 4 (steps of 32 columns, 4 rows) |
| Dynamic Range | 14-bit |
| On-Camera Image Storage | RAM (volatile): 16 GB, up to 26000 frames, full frame SSD (non-volatile): >4 TB |
| Radiometric Data Streaming | Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP) |
| Standard Video | HDMI, SDI, NTSC, PAL |
| Command and Control | GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP) |



FLIR X6802sc

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| Temperature Measurement | |
|---|---|
| Standard Temperature Range | -20°C to 350°C (-4°F to 662°F) |
| Optional Temperature Range | Up to 1,500°C (2,732°F) Up to 3,000°C (5,432°F) |
| Accuracy | ± 1°C or ± 1% of reading: <ul style="list-style-type: none">0°C to +3000°C (25 mm, 50 mm, 100 mm lenses) |
| | ± 2°C or ± 2% of reading: <ul style="list-style-type: none">-20°C to 0°C (25 mm, 50 mm, 100 mm lenses) |
| Optics | |
| Camera f/Number | f/4.1 |
| Available Lenses (Uses FLIR HDC Optics) | 25 mm, 50 mm, 100 mm |
| Close-up Lenses/Microscopes | No microscopes available |
| Lens Interface | FLIR HDC (4-tab bayonet) |
| Focus | Manual |
| Filtering | 4-position motorized filter wheel, standard 1-inch filters |
| Image/Video Presentation | |
| Palettes | Selectable 8-bit |
| Automatic Gain Control | Manual, Linear, Plateau equalization, ROI, DDE |
| Overlay | Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours) |
| Video Modes | HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL |
| Digital Zoom | 1x, 4x, 4:3 |
| General | |
| Operating Temperature Range | -20°C to 50°C (-4°F to 122°F) |
| Shock/Vibration | 40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes |
| Power | 24 VDC (< 50 W steady state) |
| Weight w/Handle, w/o Lens | 6.35 kg (14 lbs) |
| Size (L x W x H) w/o Lens, Handle | 249 x 158 x 147 mm (9.8 x 6.2 x 5.8 in.) |
| Mounting | <ul style="list-style-type: none">2 x ¼ in. -201 x 3/8 in. -164 x #10-24Side: 3x ¼ in. -20 (each side) |

Supplies & accessories:

- 29425-100; Lens 1-5 um 100 mm f/2.5 HDC Bayonet
- 29425-025; Lens 1-5 um 25 mm f/2.5 HDC Bayonet
- 29425-050; Lens 1-5 um 50 mm f/2.5 HDC Bayonet





