



FLIR X6800sc



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P/N: 29420-200

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Document identity

Publ. No.: 29420-200

Release:

Commit: 49910

Language: en-US

Modified: 2018-05-16

Formatted: 2018-05-16

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 μ m |
| Resolution | 640 x 512 |
| Detector Pitch | 25 μ m |
| 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 | Sync-in, Sync-out |
| Image Time Stamp | Precision timestamp. Syncs to internal clock at bootup. |
| Integration Time | 270 ns to 687 sec |
| Pixel Clock | 355 MHz |
| Frame Rate (Full Window) | Programmable; 0.0015 Hz to 520 Hz |
| Subwindow Mode | Flexible windowing down to 32 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 |
| Standard Video | HDMI |
| Command and Control | GigE, USB, RS-232, Camera Link |
| 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 2,000°C (3,632°F), Up to 3,000°C (5,432°F) |



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| Temperature Measurement | |
|---|---|
| Accuracy | $\pm 1^{\circ}\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none">0°C to $+3000^{\circ}\text{C}$ (25 mm, 50 mm, 100 mm lenses) $\pm 2^{\circ}\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none">-20°C to 0°C (25 mm, 50 mm, 100 mm lenses) |
| Ambient Drift Compensation (with factory cal) | Yes |
| Optics | |
| Camera f/Number | f/2.5 |
| Available Lenses (Uses FLIR HDC Optics) | 25 mm, 50 mm, 100mm |
| 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 |
| 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 $\frac{1}{2}$ 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 $\frac{1}{4}$ in. -201 x $\frac{3}{8}$ in. -164 x #10-24Side: 3x $\frac{1}{4}$ in. -20 (each side) |

Supplies & accessories:

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





