



APPLICATIONS

- Security Systems
- Airborne Gimbal Payload
- Unmanned Vehicle Systems
- Weapon Systems

Features

High-sensitivity, uncooled long wave thermal imaging sensor

Powerful 5/20 degree dual field of view optics

Auto focus

Digital Detail Enhancement

RS-232 command

Rugged, sealed enclosure

Built-in test (BIT)

Superior reliability

Built-in defrost

IR detector stand-by mode

Optional Nexus server

It's all FLIR inside

Benefits

Detect targets at range in total darkness, through smoke, dust, and most obscurants

Get fast situation awareness and detect man-size targets at 2.6 km

Get sharp imagery between zoom settings; reduces operator workload

Automatically get crisp thermal imagery regardless of scene dynamics

Straight forward communication and control with excellent documentation speeds integration

Ensures performance in harsh climates

Intelligent self-test confirms system optimization

Minimal moving parts, long MTBF, and extensive fielding

Keeps the lens clear in cold climates

Minimizes power consumption and extends life

Provides connectivity to emerging IP standards and system architectures, with full remote control and video over internet

FLIR controls the entire supply chain for the critical technology inside ThermoVision systems, ensuring fast service and long term support

ThermoVision



Crisp thermal imagery, regardless of scene dynamics



Long-range optics aid in identification

ThermoVision® UC 5/20

THERMAL IMAGING PERFORMANCE

| | |
|--------------------------|--|
| Sensor type | 320 x 240 VOx long-wave microbolometer |
| Number of fields of view | 2 |
| Wide FOV | 20° x 15° |
| Narrow FOV | 5° x 3.75° |
| F# | 1.44 |
| E-zoom | 1x to 4x Continuous |
| Spectral band | 7.5-13 μm |
| Automatic features | Auto focus, Digital Detail Enhancement (DDE), color palettes |

SYSTEM FEATURES

| | |
|-----------------------------|--|
| IR detector stand-by mode | Saves power |
| Built in Test (BIT) | Intelligent self diagnostics tests vital functions |
| Start up time from stand-by | < 10 sec |
| Lens defroster | Supports arctic use (requires separate power supply and control) |

OUTPUTS

| | |
|-----------------|--|
| Video | NTSC (RS-170) or PAL (CCIR), composite and S video (Y/C) |
| Connector types | IP67 37-pin D-sub connector (RS-232, power, composite video) |

POWER

| | |
|--------------------|---|
| Power requirements | 11-16 VDC |
| Power consumption | 7 W (average) 110 W, at 28 VDC, with heaters |

ENVIRONMENTAL

| | |
|--------------------|--------------------------------|
| IP rating | IP 66 |
| Operating temp | -32°C to 55°C (-26°F to 131°F) |
| Storage temp | -40°C to 70°C (-40°F to 158°F) |
| Shock, operational | 25g, IEC 62-2-29 |
| EMI | MIL-Std 461D |

DIMENSIONS, WEIGHTS, AND MOUNTING

| | |
|------------|---|
| Dimensions | 216 x 152 x 165 mm (8.5" x 6.0" x 6.5") |
| Weight | 2.7 kg (5.9 lb.) |
| Mounting | Detailed drawings available on request |

INTERFACES

| | |
|---------------------|-----------------|
| Command and Control | RS 232, Pelco D |
|---------------------|-----------------|

STANDARD PACKAGE

| | |
|----------------------|--|
| Included accessories | Operation manual, cables, power supply |
|----------------------|--|

Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited.
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FLIR Systems
+1 888.747.FLIR

Corporate Headquarters
FLIR Systems Inc.
27700A SW Parkway Avenue
Wilsonville, OR 97070 USA
p: +1 800.727.3547
p: +1 503.498.3547
f: +1 503.684.3207

www.flir.com

Santa Barbara, CA, USA
Indigo Operations
70 Castilian Drive
Santa Barbara, CA 93117
p: +1 888.747.3547
p: +1 805.964.9797
f: +1 805.685.2711

Boston, MA, USA
p: +1 800.464.6372
p: +1 978.901.8000

Europe: United Kingdom
p: +44.1732.220011

Sweden
p: +46.8.753.2500

Canada
p: +1 800.613.0507
p: +1 905.637.5696

Middle East
p: +9714.299.6898

