



#### 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 $\mu$ m
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.  
©2006 FLIR Systems, Inc. Specifications are subject to change. Check website. 01162006



**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](http://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

