



# "PREDATOR" Series Thermal Imaging Cameras

GTi10  
GTi20  
GTi30

- GTi10: Thermal Imaging**
- GTi20: Thermal/Visual Imaging with Picture-in-picture**
- GTi30: Thermal/Visual Imaging with Picture-in-picture, Streaming Video and Voice Annotation**

Available Q3 2012

**Ideal for revealing hidden heat-driven processes and problems. Applications include: equipment maintenance, repair and operations (MRO); building energy audits; process/manufacturing plant maintenance; water damage restoration; firefighting; navigation; surveillance.**

By converting objects' infrared (IR) radiation to visible color images, thermal imaging cameras make it possible to detect very small temperature differences from a distance. Heat signatures can help diagnose the cause of equipment failures and poor performance due to wear and tear, misalignments and fault conditions.



No. GTi10



No. GTi20 and No. GTi30

### Features & Benefits:

- 160 x 120 (19,200) pixel focal plane array IR detector
- Temperature sensitivity of  $\pm 0.14^{\circ}\text{F}$  ( $0.08^{\circ}\text{C}$ ) or better
- 4 in. (100mm) minimum focal distance allows close-up work
- Included 2GB MiniSD card stores images for later uploading to PC
- USB 2.0 and Video Out jacks
- Bright 3.5 in. diagonal flip-up color LCD
- Manually or automatically adjustable image level and span (brightness and contrast)
- Variable emissivity
- Tripod mount (via optional adaptor)
- Water, dust and oil-resistant to IP54 standard
- Shock and vibration-resistant
- Powered by rechargeable Li-ion battery
- 3 Year limited warranty
- Up to 5 hours of operation using 2 batteries

### Includes:

Camera; 2 Rechargeable Li-ion Batteries; AC Adaptor; Compact Battery Charger; 2GB MiniSD Memory Card; SD Card Reader; Video Cable with BNC Plug; USB 2.0 Cable; Bluetooth Headset with Charger (GTi30 only); Lens Cap; Analysis & Reporting Software on CD; Calibration Certificate; Hand & Neck Straps; Custom Hard Case; User's Manual; 3 Year Limited Warranty

### Optional Accessories:

Extra Batteries; Wide-Angle Lens with  $38^{\circ}$  Field of View; Telephoto Lens with  $9^{\circ}$  or  $6.4^{\circ}$  Field of View; Tripod Mount Adaptor; Car Charger; Sun Shield



A hot-water valve, shot in the dark



An IR image of a water pump's motor



All three GTi thermal imaging cameras feature a large, bright color LCD and point-and-shoot simplicity



# “PREDATOR” SERIES Thermal Imaging Cameras

	GTi10	GTi20	GTi30
<b>“PREDATOR” SERIES FEATURES &amp; SPECIFICATIONS</b>			
Picture-in-Picture Mode (Visual + Thermal Image Fusion)	No	Yes	Yes
Analysis Tools	2 Movable Spots, Isothermal Analysis	4 Movable Spots, Isothermal Analysis	9 Movable Spots, Isothermal Analysis Profile Analysis, 5 Area Analysis
Thermal Video Streaming	No	No	Yes (Via USB)
LED Flashlight	No	Yes	Yes
Voice Annotation	No	No	Yes (Via Bluetooth)
Temperature Alarms	No	Yes	Yes
Refresh Rate	30 frames per second (fps)	30 frames per second (fps)	30 frames per second (fps)
Visual Image Display Resolution	N/A	320 x 240 pixels	320 x 240 pixels
Visual File Format	No	CCD/JPG	CCD/JPG
Laser Pointer	Yes		
Field of View	20° x 15°		
Spatial Resolution	2.2 mrad		
Temperature Measurement Range	-4° to 572°F (-20° to 300°C), upgradeable to 2732°F (1500°C)		
Thermal Sensitivity	±1.4°F (0.08°C) at 86°F (30°C)		
Detector Type	Uncooled focal plane array, manual focusing		
Accuracy	±3°F (2°C) or 2% of reading		
IR Detector Resolution	160 x 120 pixels (19200 pixels)		
IR Detector Spectral Range	8 to 14um		
Focusing	Manual		
Measurement Compensation Factors	Emissivity, Ambient Temperature, Humidity, Distance		
Minimum Focal Distance	4 in. (100mm)		
Optional Telephoto and Wide-Angle Lenses	Yes (6.4°, 9° and 38° Field of View available)		
Display	Flip-up 3.5 in. diagonal color LCD		
Auto Hot/Cold Spot Indicator	Yes		
Video Output Formats	NTSC, PAL		
Color Palettes	Ironbow, Iron-Inverted, Rainbow, Feather, Grey, Grey-Inverted		
Image Storage Medium, Capacity	2GB MiniSD memory card (included)		
Thermal File Format	Proprietary SAT, Radiometric, JPG		
Text Input	No		
Battery	Rechargeable Lithium-Ion		
Total Charge Capacity	Up to 5 hours continuous with 2 batteries		
Power Saver Mode	Yes		
Operating Temperature	-4° to 122°F (-20° to 50°C) @ 10 to 90% RH		
Water/Dust/Oil Resistance	IP54		
Shock Resistance	Operational 25G		
Vibration Resistance	Operational 2G		
Weight	1.3 lb. (580g)		
Dimensions	6.8 x 3.1 x 6.4 in. (172 x 80 x 162mm)		
Tripod Mount	Standard Base (Adaptor Optional)		
External Power Source	AC Adaptor		
Limited Warranty Duration	3 Years		



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