

VisIR[®] 320

INFRARED VISION

Thermal Innovation at Work



Thermal, visible, laser & flash/illuminator



High resolution inspections



High contrast 5" DayBrite Touch screen



DC operation and in-camera charging



Clip-on sun shield for clear viewing in bright conditions

	VisIR® 320-P (Predictive Maintenance)	VisIR® 320-S (Scientific - R&D)
Camera Parameters		
320 x 240, 25 µm pitch (76,800 pixels)	✓	✓
Uncooled Focal Plane Array (FPA) micro-bolometer	✓	✓
Thermal frame rate	60Hz*	60Hz* Selectable Integration
Spectral Range 7.5 to 13 µm	✓	✓
Thermal sensitivity	50mK	<40mK
Accuracy ± 2 °C (or ± 2 % of reading)	✓	✓
Field of View 26° x 20°	✓	✓
Temperature range -20 to 300°C	Standard	Standard
Temperature range -20 to 500°C	Optional	Optional
Temperature ranges 0 to 1500°C or 0 to 2000°C	Optional	Optional
Lens - 35 mm f/1.0 (minimum focus distance 250 mm)	✓	✓
Visible Camera 1.3 M pixel	✓	✓
Illuminator - LED (Flash or continuous modes)	✓	✓
Internal Memory 250 MB	✓	✓
Data Resolution	14 Bit	14 Bit
Laser pointer Class 2	✓	✓
Battery - Lithium-ion rechargeable (5.5 Ah)	✓	✓
Camera Tools		
Tool emissivity/background & materials list	✓	✓
Spots - 10	✓	✓
Line profiles - 2	✓	✓
Areas (rectangle, circle, ellipse) - 3 (Max, Mn, Avg)	✓	✓
Difference - Between any two tool values	✓	✓
Palettes - 10	✓	✓
Isotherms - 3 (Above, below, interval)	✓	✓
Humidity/Distance Compensation	✓	✓
Alarms - Auto, audible/visible	✓	✓
Environmental		
Weight - 1.8 Kg (including battery)	✓	✓
Protection IP54	✓	✓
Size 190 x 210 x 110 mm (d, w, h)	✓	✓
Battery Life > 2 Hours	✓	✓
Humidity 10 % to 95 % Non-condensing	✓	✓
Operating Temperature -20 to + 50 °C	✓	✓
Tripod Mount 1/4" - 20	✓	✓
Camera Functions		
Display - 5 inch diagonal 800 x 480 touch screen	✓	✓
Contrast Ratio 500:1	✓	✓
Voice annotation 30 seconds	✓	✓
In Camera Trending	x	✓
Live Zoom & Pan (digital) continuous	to x8	to x16
Voice playback with built-in speaker	✓	✓
User button configurable to preferred menu option	✓	✓
Image Gallery with IR and Visual images	✓	✓
Displays - Thermal/Visible, Picture-In-Picture, Fused	✓	✓
Touch Screen QWERTY Keyboard	✓	✓
Real Time Integration (x2, x4)	x	✓
Battery charging - In-camera or external charger	✓	✓
Remote mouse operation	✓	✓
Camera Connectivity		
USB 2 Internal image download	✓	✓
USB 2 Real-time Radiometric thermal video output	x	✓
Composite Video Output NTSC	✓	✓
Ethernet 100 Base T	✓	✓



Safe One-Handed Operation



Ergonomic



Multi-position central articulation



C-Safe® IR Inspection Window

Optional Interchangeable Lenses - Available for both VisIR-S and VisIR-P camera models

Wide Angle Lens	22.6mm f/1.0	FOV 43° x 32°
Telephoto Lens	62.8mm f/1.3	FOV 14° x 11°

Accessories

Sun shield - Touch screen stylus - Neck-strap - C-Safe® IR Inspection Windows
External battery charger - Spare Batteries - External power supply (in-camera charging or continuous operation)

*9Hz versions of VisIR 320 are available as well as a higher resolution VisIR 640 (640 x 480) model - please enquire



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more than just an image...