

# VisIR<sup>®</sup> 640

INFRARED VISION

Thermal Innovation at Work



# VisIR® 640

INFRARED VISION



	VisIR® 640-P (Predictive Maintenance)	VisIR® 640-S (Scientific - R&D)
<b>Camera Parameters</b>		
640 x 480, 25 µm pitch (307,200 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 25.8° x 19.5° (0.71 mRad)	✓	✓
Temperature range -20 to 500 °C (opt. 0 to 1,500 °C)	✓	✓
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	✓	✓
CF Memory slot	Standard	High Speed
Laser pointer Class 2	✓	✓
Battery - Lithium-ion rechargeable (5.5 Ah)	✓	✓
<b>Camera Functions</b>		
Tool emissivity/background & materials list	✓	✓
Spots - 10	✓	✓
Line profiles - 2	✓	✓
Areas (rectangle, circle, ellipse) - 3 (Max, Min, Avg)	✓	✓
Difference - Between any two tool values	✓	✓
Palettes - 10	✓	✓
Isotherms - 3 (Above, below, interval)	✓	✓
Humidity/Distance Compensation	✓	✓
Alarms - Auto, audible/visible	✓	✓
<b>Environmental</b>		
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	✓	✓
<b>Camera Functions</b>		
Display - 5 inch diagonal 800 x 480 touch screen	✓	✓
Contrast Ratio 500:1	✓	✓
Burst storage 90 seconds	x	✓
Voice annotation 30 seconds	✓	✓
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	✓	✓
<b>Camera Connectivity</b>		
Digital Burst / Record Input	x	✓
USB 2 Internal image download	✓	✓
USB 2 Real-time Radiometric thermal video output	x	✓
Composite Video Output NTSC	✓	✓
Ethernet 100 Base T	✓	✓

### Accessories

External battery charger - Spare Batteries - External power supply (in-camera charging or continuous operation) - Sun shield - Touch screen stylus - Neck-strap



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more than just an image...