Infrared Cameras Inc.

ICI Prodigy 640

The Prodigy 640 offers uncooled infrared technology at its very best: the lowest thermal sensitivity on the planet combined with a suite of optics for nearly any application. Add the power of a Sony Micro PC and you have, in your hands, a 40GB hard drive computer running ICI's IRFlash software with the ability to record real-time data complete with 48 temperature measurement zones. Store this data for analysis later or pull out a few snapshots for report generation.

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Application software:
ICI IRFlash

ICI Prodigy Specifications

Detector:	Microbolometer 640 x 480 UFPA VOX
Field of View:	75mm F1 or 100mm F1.4
Optional lenses:	18mm, 50mm, 75mm, 100mm, 150mm
Instantaneous Field of View:	1.13mrad
Spectral Response:	7 to 14 microns
Video Update Rate:	15Hz (16bit digital)
Focusing Distance:	12 in. to infinity
Focus Adjustment:	Manual / Electronic focus available
Temperature Dynamic Range:	16 Bits
Accuracy :	±1°C or ±1%
Thermal Sensitivity:	0.038° C @ 25° C
Operating Temperature:	-20° C to 50° C
Storage Temperature:	-40° C to 70° C
Environmental Protection:	IP54
Shock:	30g
Vibration:	3g
Palettes:	8 palettes including color and B&W

Automatic or Manual Gain and Level
1 watt input powered by computer USB connection
Weight: 5.2oz (148g) w/ lens
Dimensions: 2.1" x 3.2 x 0.5" (53mm x 81mm x 13mm)
Data Interface: USB2
Outputs: USB2

Applications

The Prodigy 640 infrared system fuses the features of a laptop computer and a sophisticated R&D camera with portability and durability to inspect electrical transmission and distribution equipment, electrical switchgear, building envelopes, flat roofs, process equipment, mechanical equipment and any other application requiring the most sensitive streaming or fixed image temperature data. All this in a compact and lightweight infrared unit running Windows XP. Prodigy is powerful, easy to use and the smartest infrared camera for any testing or inspection application.

TOP: Rear view of the ICI Prodigy with Sony Micro Computer
BOTTOM: Front view of the ICI Prodigy Thermal Imaging System