IR-CAM-160, Thermal Imaging Camera

Thermal Imaging Camera IR-CAM-160 with a high thermal sensitivity of 65mk can identify the smallest temperature difference from the object & display it by excellent thermal images. As a potential fault always coming with the partial overheat / overcool, so the user can locate the overheated / overcooled part with a Thermal Imaging Camera instantaneously, and more details about the fault will be found by assistance of our professional Thermal Imaging Analysis Software.

Features:
- High sensitivity, 1 micro liter/second
- Auto operation
- Dual display design
- Built-in 4.0 mega-pixel digital camera
- Videos & images capturing, recording & play back
- Inspection safety.

Model | IR-CAM-160
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Detector Data of Infrared Camera
Detector type | Focal plane array (FPA), uncooled Microbolometer
IR resolution | 160 x 120 pixels
Pixel pitch | 25μm

Imaging and Optical Data
Spectral range | 8-14μm
Field of view (FOV) /min focus | 21°x 16°/0.15m (standard lens)
Distance | 35° x 27°/0.05m (wide angle lens, optional)
4° x 3° /0.8m (telephoto lens, optional)

Image Presentation
Spatial resolution (IFOV) | 2.3mrad (standard lens)
Thermal sensitivity (NETD) | <65mk at 30°C
Image frequency | 50/60Hz
Focus | Manual
Electronic zoom | 2x
Display | Built-in 3.5” color LCD

Measurement
Temperature range | -20°C to +120°C / 0°C to +350°C (switchable) Up to 1200°C (optional)
Accuracy | ±2°C or ±2% of reading
Measurement spot | Up to 4 moveable spots
Measurement area | Up to 3 moveable boxes, automatically capture maximum minimum, average temperature
Line profile | Vertical, horizontal
Isotherms analysis | Detect high/low temperature/interval
High temp. alarm | Voice, color
Emissivity correction | Adjustable from 0.01 to 1.0
Temperature correction | Auto
Multiple Language Menu | 10 Languages (English, French, Italian, German, Spanish, Portuguese, Russian, Korean, Japanese, Simplified Chinese & Traditional Chinese)

Image Storage of Thermal Imaging Camera
Storage type | Built-in flash card, up to 1500 images
Files format | Standard JPEG, 14-bit measurement data included
Voice comments | 40s voice record, stored with per image via built-in microphone

Laser Indication
Classification type | Class 2, 1mW/635nm Red

Power System
Battery type | Rechargeable and replaceable Li-ion battery
Battery operating time | Approx 3 hours
Power saving | User defined
Power operation | 12V ±5%

Environment Data
Operating temp. range | -20°C + +50°C
Storage temp. range | -40°C + +70°C
Humid. (operating & storage) | °C90°C non-condensing
Shock | 25G, IEC68-2-29
Vibration | 2G, IEC68-2-26

Physical Data
Size (LxWxH) (mm) | 330x95x86
Weight | 650g
Tripod mounting | 1/4-20

Interfaces
External DC input | Yes
Audio output | Yes
Video output | PAL / NTSC
USB | Images transfer to PC

Camera Includes
Standard | Thermal imaging camera with standard IR lens, 2 Li-ion batteries, battery charger, adapter, Video cable, USB cable, Software CD, instruction, warranty card, transport case
Optional accessories | Li-ion battery, IR lens

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