

Detailed specifications (Thermal Imaging Camera)

Scope:

Specification covers Supply, commissioning & Training of Thermal Imaging Camera .

II. Technical Specification:

Thermal Imaging Camera with minimum of the following specifications

Image Quality

IFOV (spatial resolution) : 0.8 mRad

Detector resolution (pixel) : 640 x 480 (307,200 pixels)

Field of View (FOV) standard 30mm lens : 30.9° x 23.1°

Thermal sensitivity (NETD) ≤ 0.03 °C at 30 °C target temp (30 mK)

Spectral range : 7.5 μ m to 14 μ m

Wireless Connectivity

Viewing modes PIP, continuous blending, color alarms (above and below user defined temperatures)

Focus System : Manual/ Laser sharp Auto Focus

Multifocal recording : Shall captures images from different focal distances and combines them into one

image displaying each object sharply for the best image quality

Temperature Measurement : -40 °C to +2000 °C

Accuracy : ± 1.5 °C or ± 1.5 %

Correction functions :Laser range finder based distance corrector, emissivity (manual or material

table)Transmissivity, ambient temperature,

Image/video storage : SDHC memory card

Interfaces for image/data transfer : Supported in camera data ports: Image transfer: SD card, USB, HDMI

View Finder: Tiltable LCOS colour view finder,800x600 pixel resolution

General Specifications

Laser pointer : Yes, laser class: 2

Laser distance meter : Accuracy ± 1.5 mm

Display : Extra-large 5.6" color TFT display, 1280 \times 800 pixel resolution

Geo-localization Built-in GPS for geo-referencing

Digital visible light camera Up to 8 megapixel resolution for image and video recording

Digital zoom Up to 32x digital zoom

Text annotation Yes

Voice annotation Yes

Audio Integrated microphone and loudspeaker for voice annotations

A/D conversion: 16 bit

Power supply External: 12 VDC ... 24 VDC

Battery: Standard Li-Ion video camera battery

Replaceable Smart Batteries with LED level indicator: Two

Operating temperature -25 °C to +55 °C (-13 °F to 131 °F)

Storing temperature -40 °C to +70 °C (-40 °F to 158 °F)

Humidity Relative humidity 10 % to 95 %, non-condensing

Shock Operational: 25G, IEC 68-2-29

Vibration Operational: 2G, IEC 68-2-6

Protection class IP5

Ergonomics Camcorder with Handle

Measurement functions (selection) : Multiple measurement spots & Regions of Interest (ROIs), hot/cold

spot detection, isotherms, profiles, differences

Automatic functions (selection) : Focus, image, level, range, NUC, lens recognition, image optimization, alarm sequence

Reporting and analysis Software : Full Featured Software to be provided

Refresh rate : 9Hz or Higher

Warranty : 2 years