HANDHELD THERMAL IMAGING CAMERA MODEL - TG-301

The "KUSAM-MECO" TG-301 Thermal Camera can display Thermal Gradient Map & measuring the infrared energy radiated by the target's surface inside the laser circle with scale indication area associated with precise and accurate temperature reading.



FEATURES :

- ✷ One Navigator Key Operation
- ✷ 16,384 pixels thermal image after interpolation
- ✷ True D/S 30:1 with precise laser indication.
- ✷ SD Card of 2GB is available
- ✷ Bright flashlight with 5 white LEDs
- ✷ Compact UV refrigerant leak detector with 5UV/Blue LEDs
- ✷ Ergonomically designed pistol grip housing with excellent industrial Design
- ✷ Simple, Smart, Precise and Versatility.
- ✷ Display : 128(H) x 160(V) pixel 1.77 inches TFT-LCD
- ✷ Key chain with wrist strap for carrying convenience

ELECTRICAL SPECIFICATIONS :

- **Temperature Range :** -30 °C to 650 °C (-22 °F to 1202 °F)
- **Accuracy :** ≥ 0°C : ±1.5°C or ±1.5% of reading whichever is greater (≥ 32°F : ±3°F or 1.5% of reading, whichever is greater)
  ≥ -10°C to < 0°C : ± 2°C(≥ 14°F to < 32°F : ±4°F); < -10°C : ± 3°C (<14°F : ± 6°F) ≥ 0°C : ±1.5°C or ±1.5% of reading whichever is greater (≥ 32°F : ±3°F or 1.5% of reading, whichever is greater)
- **Response Time(95%) :** <125 ms (95% of reading)
- **Optical Resolution :** 30:1 (calculated at 95% energy)
- **Display Resolution :** 0.1 °C (0.2 °F)
- **Repeatability of Readings :** ±0.8% of reading or ±1.0°C (2°F), whichever is greater
- **Image capture Frequency :** 9Hz

GENERAL SPECIFICATIONS :

- **Operating Temp. & Humidity :** -10 °C to 50 °C (14 °F to 122 °F),10 % to 90 % RH
- **Storage Temperature :** -20 °C to 60 °C (-4 °F to 140 °F)
- **Operating Altitude :** Upto 2000 meters above mean sea level.
- **Storage Altitude :** Upto 12000 meters above mean sea level.
- **Drop Proof :** 1.2 meters (4 feets)
- **Power :** 3 AA IEC LR06 batteries.
- **Auto Power off :** Selectable : OFF / 1 / 2 / 5 / 10 min.
- **Battery Life :** 12 hours with laser and backlight on
- **Weight :** Approx. 300 g
- **Dimension :** Approx. (185 x 54 x 104) mm

THERMAL IMAGING :

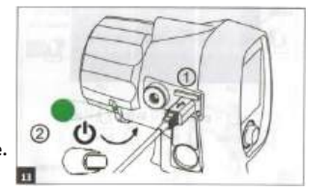
- **Imaging Detector :** IR-EX™ Technology (Integrated IR Array Sensor with CMOS Sensor)
- **Image Resolution :** 16,384 pixels (128 x 128 pixels)*
- **Field of View (H X W) :** 33° X 33°
- **Focus Distance :** 4 inches or 10cm
- **Upper Sense Range :** 650 °C
- **Thermal Imaging Sensitivity :** 150 mK
- **Color Palettes :** 3 (Grey Scale, Hot Iron, Rainbow)
- **Saved Image Format :** Bitmap (BMP) Image with Temperature and Emissivity
- **Emissivity :** 0.10 To 1.00
- **Spectral Response :** 8 to 14 microns

SAFETY :

- **Vibration and Shock:** IEC 60068-2-6 2.5 g, 10 to 200 Hz, IEC 660068-2-27, 50 g, 11 ms
- **EMC :** EN 61326-1:2006, EN 61326-2:2006
- **Compliance and Laser Safety :** EN/IEC 61010-1, EN 60825-1 Class II

INSTRUCTIONS FOR SD CARD & PC CONNECTION :

- **SD Card of 2GB is available.**
- **2GB SD Card is inserted left side of the Thermal Image Camera.**
- **USB slot is also given to directly connect to the PC and view the image.**



- **Connect any USB Cable to the PC and the Imager TG-301 should be in OFF mode then connect to the PC. If in ON mode the USB cannot be connected to show files.**
- **In Thermal Image Camera the menu option the saved images can be seen directly on the screen of image camera.**
- **When connected to the PC with USB cable do not ON the imager. It will not start.**