

# Handheld Thermal Camera Model - TG-301

**FEATURES :**

- \* One Navigator Key Operation
- \* True D/S 30:1 with precise laser indication.
- \* Simple, Smart, Precise and Versatility.
- \* Alkaline AA size x 3 Batteries
- \* SD Card of 2GB is available.
- \* Compact UV refrigerant leak detector with 5UV/Blue LEDs
- \* Ergonomically designed pistol grip housing with excellent industrial Design
- \* 16,384 pixels thermal image after interpolation
- \* Bright flashlight with 5 white LEDs
- \* 160x128 pixel 1.77 inches TFT-LCD Display
- \* Key chain with wrist strap for carrying convenience

**ELECTRICAL SPECIFICATIONS :**

- **Temperature Range :** -30 °C to 650 °C (-22 °F to 1202 °F)
- **Accuracy :** ±1.5 °C or ±1.5% of reading ±2.0°C at -10 °C to 0 °C  
±3.0°C at -30 °C to -10 °C
- **Response Time(95%) :** <300 ms (95% of reading)
- **Optical Resolution :** 30:1 (calculated at 95% energy)
- **Display Resolution :** 0.1 °C (0.2 °F)
- **Repeatability of Readings :** ±0.5% of reading or < ±0.5°C ( 1°F), whichever is greater

**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.
- **Power :** AA x 3 batteries
- **Battery Life :** 16 hours with laser and backlight on
- **Weight :** Approx. 300 g
- **Dimension :** (185 x 51 x 100) mm ( 7.29 x 2.01 x 3.94) inches
- **Standard Accessories:** User Manual, Batteries, SD Card, USB Cable & carrying case.

**SAFETY :**

- **Vibration and Shock:** IEC 68-2-6 2.5 g, 10 to 200 Hz, IEC 68-2-27, 50 g, 11 ms
- **EMC :** EN 61326-1:2006, EN 61326-2:2006
- **Compliance and Laser Safety :** EN/IEC 61010-1: 2001, EN 60825-1 Class II

**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.

**THERMAL IMAGING :**

- **Imaging Detector :** IR Array
- **Image Resolution :** 16,384 pixels (128 x 128 pixels)\*
- **Field of View (H X W) :** 30 °
- **Upper Sense Range :** 650 °C
- **Thermo Imaging Sensitivity :** 150 mK
- **Color Palettes :** 3 (Grey Scale, Hot Iron, Rainbow)
- **Saved Image Format :** Bitmap (BMP) Image with Temperature and Emissivity

All Specifications are subject to change without prior notice.



Preliminary Data

