



Titan 1280 P-Series is a highly accurate thermal imager capable of capturing data in as little as 3 seconds. It supports full-screen temperature data output and features multiple image output interfaces. A variety of thermal lenses are available. The Titan 1280 P offers comprehensive analysis functions and can serve a wide range of temperature measurement applications.

Features

- High temperature measuring
- 6 temperature measurement modes
- 10 Fixed point measurements
- 12 Lines/Areas analysis
- High-definition imaging
- USB Type-C interface
- Power protection

Applications

- Electrical inspections
- Substation monitoring
- Industrial inspections
- Plant/General maintenance
- Petroleum/Petrochemical monitoring
- Security monitoring
- Quantitative inspections

Len Options

- Call for more lens options

Specifications

- **Pixel Resolution:** 1280 x 1024
- **Accuracy:** $\pm 2\text{ }^{\circ}\text{C}$ ($\pm 3.6\text{ }^{\circ}\text{F}$) or $\pm 2\%$
- **Temperature Range:**
Standard: $-20\text{ }^{\circ}\text{C}$ to $150\text{ }^{\circ}\text{C}$ ($-4\text{ }^{\circ}\text{F}$ to $302\text{ }^{\circ}\text{F}$)
Industrial: $0\text{ }^{\circ}\text{C}$ to $500\text{ }^{\circ}\text{C}$ ($32\text{ }^{\circ}\text{F}$ to $932\text{ }^{\circ}\text{F}$)
- **Operation Range:** $-40\text{ }^{\circ}\text{C}$ to $80\text{ }^{\circ}\text{C}$ ($-40\text{ }^{\circ}\text{F}$ to $176\text{ }^{\circ}\text{F}$)
- **Storage Range:** $-45\text{ }^{\circ}\text{C}$ to $85\text{ }^{\circ}\text{C}$ ($-49\text{ }^{\circ}\text{F}$ to $185\text{ }^{\circ}\text{F}$)
- **Detector Array:** Uncooled VOx
- **Pixel Pitch:** $12\text{ }\mu\text{m}$
- **Focal Length:** 17 mm
- **Focus:** manual
- **Spectral Band:** $8\text{ }\mu\text{m}$ to $14\text{ }\mu\text{m}$
- **Thermal Sensitivity (NETD):**
< (20 mK) $0.02\text{ }^{\circ}\text{C}$ at $30\text{ }^{\circ}\text{C}$ ($86\text{ }^{\circ}\text{F}$)
- **Frame Rate:** 30 Hz
- **Pixel Operability:** > 99 %
- **Shock/Vibration:** 40 G/4.3 G
- **Dimensions (without lens):**
 $45\text{ mm} \times 45\text{ mm} \times 50\text{ mm}$ (W x H x L $\pm 0.5\text{ mm}$)
($1.77\text{''} \times 1.77\text{''} \times 1.97\text{''}$ (W x H $\pm 0.02\text{''}$))
- **Power:** 4V ~ 6V DC, < 2.3W
- **Power Protection:** Over-voltage; Under-voltage;
Reverse Connection
- **Startup Time:** $\leq 15\text{s}$
- **Weight (without lens):** < 150 g (5.29 oz) $\pm 3\text{ g}$ (0.11 oz)
- **Interface:** USB Type-C
- **Video:** LVCMOS; LVDS
- **Video Mirror:** Horizontal; Vertical; Diagonal
- **Image Polarity:** 20 Options
- **Image Processing:** Digital filter; Imaging denoising;
Detail enhancement
- **Reticle:** Reveal; Hidden; Shift
- **Brightness:** adjustable
- **Zoom:** 1.0X ~ 4.0X continuous
- **IP Rating:** IP54
- Internal non-uniformity correction (NUC)



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