



## TNC100 Dual Vision Network Ready Camera

Powerful on-edge analytics to autonomously run your critical asset monitoring and fire safety protocols

TNC100 combines visible and thermal cameras into a durable housing that is suitable for both indoor and outdoor applications. The 256 x 192 thermal resolution of this camera is digitally enhanced, and offers blending with 3 modes of fusion with visible light to provide superior image clarity. The wide 56° field of view, or 90° field of view option, is ideal for large monitoring coverage over moderate distances. This camera comes equipped with a fault relay switch to ensure failsafe operation in critical monitoring applications.

Engineered to bring the best situational awareness to any thermal monitoring solution

Planck cameras run the most advanced analytics and ensure that your asset monitoring and fire safety solutions are the best in the industry. Planck cameras are built to the highest standards of performance to provide reliable operation under harsh environmental conditions. Planck's communication protocols are designed for ease of integration with existing hardware and software platforms.

### Planck Camera Advantages:

- **Dual Vision:** Offers both thermal and visible imaging for unmatched awareness.
- **On-Edge Analytics:** Keeps monitoring active even during network outages.
- **Alert Recordings:** Captures crucial images in both thermal and visible during alerts.
- **Removable Storage:** Large-capacity TF card for extensive on-camera storage.
- **Reliable Alarms:** Multiple communication channels ensure alerts are always received.
- **Responsive Alerts:** Features both immediate and early warning alert modes.
- **Image Fusion:** Combines thermal and visible images for superior detail.
- **Targeted Monitoring:** Allows setting up to 12 specific monitoring areas with alarms.
- **Comprehensive Alarms:** Wide range of alarm settings for precise information delivery.
- **Safety Features:** Advanced area security functions to protect human safety.
- **Night Illumination:** Powerful IR light for visible night vision.



### Simple Integration:

- **User-Friendly Interface:** Access full features via web interface.
- **API Access:** Full-feature RESTful API for easy integration.
- **Modbus Support:** TCP Modbus interface for seamless system communication.
- **External TCP Relay Option:** 8 or 30 channels.
- **Alarm I/O Relays:** Dual I/O relays enhance alarm functionality.

### TNC100 Specifications\*

<b>Thermal</b>	Sensor	Uncooled VOx Microbolometer (25Hz)
	Spectral Range (um)	7.5-13.5
	NETD	<50mK (@25°C, F#1.0)
	Resolution (pixels)	256 x 192
	Lens Options f=3.2 mm:	56° (H) x 42° (V) FOV, 3.75 mrad Res, fixed focus
	f=2.1 mm:	90° (H) x 67° (V) FOV, 5.71 mrad Res, fixed focus
	Measurement Range	High Gain: -20C to 150C; Low Gain: 0C to 550C
Accuracy (@ 2m)**	±5C or ±5% (whichever is greater)	
Color Palette	18	
<b>Visible</b>	Sensor	1/2.7" CMOS
	Resolution (pixels)	2560 x 1600
	Low Light Illumination	Color: 0.01 Lux @(F1.5) Black and White: 0.001Lux @(F1.5)
	IR	IR
<b>Video</b>	Visible Resolution	Main: 2560 × 1600 / 1080P / 720P (@25fps), Sub: D1 / CIF
	Thermal Resolution	Main: 640×480 (@25fps), Sub: 640×480 / 320×240
	Video Compression	H.264; Up to 6 Streams
	Visible/Thermal Fusion	3 Mode(s)
<b>Network</b>	Data Rate	10/100 Mbps
	Protocol	HTTP, RTP, RTSP
	API	ONVIF, JSON Restful
	Data Transfer	FTP, Modbus TCP
	Web UI	3 User/Pass Permissions
<b>I/O Connectors</b>	RJ45	Yes
	Analog Video Out	PAL/NTSC w/BNC
	Audio I/O	Yes
	Fault Relay	Yes
	Relay Switch	1-Input; 1-Output
	TCP Relay Option	Yes
	Storage	TF Card 1T
<b>Measurement (Temperature)</b>	Regions	12 Local and 1 Global
	Shapes	Spot, Line, Rectangle, Polygon
	Alert/Alarm Rules	Above, Below, Between, Out of Range
	Relative Measurements	Yes
	Area Shielding	4 Regions
<b>Smart Functions</b>	Area Security	4 Regions
	Hotspot Monitoring	Yes
<b>General</b>	Operation	Temperature: -20C to 70C; RH≤95%
	Ingress Protection	IP67
	Power	12-24VDC, <5W Barrel Plug, and POE
	Dimension	200x97x99 mm (7.88x3.82x3.9 in)
	Weight	1.01 kg (2.22 lb)

\*Disclaimer: Specifications subject to change without notice

\*\*Laboratory test data at room temperature