



TNC20 Dual Vision Network Ready Camera

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

TNC20 combines visible and thermal cameras in a compact housing that is ideally suited for enclosed spaces. The 160 x 120 thermal array is calibrated for industry leading temperature accuracy. The thermal resolution is digitally enhanced and can be blended with 3 modes of visible light fusion for superior image clarity. The wide 58° field of view achieves large monitoring coverage in small areas. This camera offers a flashlight function that allows remote visual inspection in dark spaces.

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.
- **User-Friendly Interface:** Full features web interface.
- **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.



Simple Integration:

- **Sleek Design:** Low-profile housing fits in small areas.
- **API Access:** Full-feature RESTful API for easy integration.
- **Modbus Support:** TCP Modbus interface for seamless system communication.
- **Alarm I/O Relays:** Dual I/O relays enhance alarm functionality.
- **Powerful visible LED:** Illumination for dark spaces

TNC20 Specifications*

Thermal	Sensor	Uncooled VOx Microbolometer (9Hz)
	Spectral Range (um)	7.5-13.5
	NETD	<50mK (@25°C, F#1.0)
	Resolution (pixels)	160 x 120
	FOV	58° (H) x 44° (V)
	Measurement Range	High Gain: -10C to 150C; Low Gain: -10C to 400C
	Accuracy (@ 2m)**	±2C or ±2% (whichever is greater)
Visible	Color Palette	18
	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)
Video	Visible Resolution	Main: 2560 x 1600 / 1080P / 720P (@25fps), Sub: D1 / CIF
	Thermal Resolution	Main: 640x480 (@9fps), Sub: 640x480 / 320x240
	Video Compression	H.264; Up to 6 Streams
	Visible/Thermal Fusion	3 Mode(s)
Network	Data Rate	10/100 Mbps
	Protocol	HTTP, RTP, RTSP
	API	ONVIF, JSON Restful
	Data Transfer	FTP, Modbus TCP
	Web UI	3 User/Pass Permissions
I/O Connectors	RJ45	Yes
	Fault Relay	No
	Relay Switch	1-Input; 1-Output
	TCP Relay Option	No
	Storage	TF Card 1T
Measurement (Temperature)	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
Smart Functions	Area Security	4 Regions
	Hotspot Monitoring	No
General	Operation	Temperature: -20C to 65C; RH≤95%
	Ingress Protection	IP66
	Power	12-24VDC, ≤10W Terminal Block, and POE
	Dimension	95x90x33 mm (3.74x3.55x1.3 in)
	Weight	0.43 kg (0.95 lb)

*Disclaimer: Specifications subject to change without notice

**Laboratory test data at room temperature

TNC20 included mounting bracket

