



MISSION CATALOG · CB-000005

AGT-TC6516 LONG RANGE PROFESSIONAL THERMAL IMAGING CAMERA FOR FIREFIGHTING

The AGT-TC6516 is a long-range professional thermal imaging camera for firefighting and perimeter security, featuring a 640×512 VOx detec...

Model AGT-TC6516

KEY BENEFITS

- Long range 24-hours monitoring
- Delicate and smooth images
- Convenient for installation and application
- 360 degree omni-directional Pan-Tilt
- Super-strong aluminum alloy with IP66
- Higher sensitivity
- Effective in all environments
- Small size and low weight

DESCRIPTION

The AGT-TC6516 long-range professional thermal imaging camera is built for continuous 24-hour surveillance in demanding firefighting, border defense, and critical infrastructure applications. It combines a fifth-generation FPA VOx uncooled detector with 640×512 resolution (384×288 optional), a 31–155mm continuous zoom lens, and advanced SDE digital image processing to deliver delicate, smooth thermal imagery across all environments. The integrated 30kg-duty CNC PTZ provides 360° pan and ±45° tilt with ±0.1° accuracy, 255 presets, and multiple cruising modes for automated coverage. Intelligent video analytics include cross-border/intrusion detection, target tracking, shot-point/fire detection, and a configurable 255-level alarm threshold. Encased in a one-piece super-strong aluminum alloy housing with IP66 weatherproofing and anti-dust protection, the camera operates from -25°C to +60°C (-40°C optional) and accepts AC/DC 24V power with anti-reverse connection protection.

OVERVIEW

- VOx uncooled detector, 640×512 (384×288 optional)
- NETD less than 50mK (@25°C F1.0)
- SDE digital image processing, AGC, 2X digital amplification
- 10 pseudo color and B/W, B/W inverse
- Intelligent functions: cross-border/intrusion detection and target tracking
- 255 level alarm threshold can be setup
- Advanced algorithm supports shot-point/fire detection and alert
- One integral aluminum alloy housing, waterproof, IP66 weatherproof, anti-dust

APPLICATIONS

- Seaport and airport monitoring
- Water system monitoring
- Storage monitoring
- Base security monitoring
- Oilfield & oil depot security
- Fire source prevention & monitoring
- Ecological and environmental monitoring
- Border and coastal defense
- Urban security and anti-UAV applications
- Highways and railways monitoring

TECHNICAL SPECIFICATION

DETECTION	
Vehicle range	13000m
Human range	4800m
IDENTIFICATION	
Vehicle range	3400m
Human range	1300m
PTZ	
Duty	30kg CNC PT
Pan range	0~360°
Tilt range	-45°~+45°
Pan speed	0.01°~60°/S
Tilt speed	0.01°/S ~30°/S
Accuracy	±0.1°
Presets	255
Preset lens support	support lens zooming and focusing preset
Cruising lines	6
Apple-skin scanning	1
Line cruising	1
NETWORK	
Network interface	RJ45.10, 10/100 Base-T adaptive
Video output	RS422/485 integrated
Transport protocols	TCP/IP, UDP, IPv4/v6

TECHNICAL SPECIFICATION

NETWORK	
Application protocols	HTTP, RTP, RTSP, NFS, DHCP, NTP, SMTP, SNMPv1/v2c/v3, UPNP, PPPoE, DNS, FTP
Standards	PSIA, ONVIF2.0, GB28181
POWER	
Input voltage	AC/DC24V
Reverse polarity protection	anti-reverse connection protection
CONSUMPTION	
Total consumption	180W
WEIGHT	
Weight	≤25kg (include PTZ)
ENVIRONMENT	
Operating temperature	-25°C~+60°C(-40°C Optional)
Storage temperature	-45°C~70°C
Protection level	IP66
ENHANCEMENTS	
Image processing	SDE digital image processing
AGC	supported
Digital amplification	2X
Pseudo color count	10
Monochrome modes	B/W, B/W inverse
Cross-border detection	supported
Intrusion detection	supported
Target tracking	supported
Alarm threshold levels	255

TECHNICAL SPECIFICATION

ENHANCEMENTS	
Shot-point detection	supported
Fire detection	supported
Alert	supported

COMMERCIAL TECHNICAL DATA

DATASHEET · EN

DOCUMENT CONTROL SHEET

ISSUING AUTHORITY

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MATRIX CODES · SCAN TO OPEN

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