



MISSION CATALOG · CB-000034

AGT-TTVC12615C-2186 PTZ DISTANCE HD THERMAL IMAGING CAMERA FOR BORDER

The AGT-TTVC12615C-2186 is a dual-band PTZ camera that combines a 1280×1024 uncooled thermal imager and a 2 MP full-HD visible-light modu...

Model AGT-TTVC12615C-2186

KEY BENEFITS

- Integrates infrared thermal imaging, full-HD visible light, video coding, and pan/tilt control electronics in one unit for simplified deployment
- Latest-generation MEMS-based VOx detector with NETD down to 50 mK delivers finer image quality with less degradation from fog, rain, and snow
- Unique AS optical and high-precision optomechanical design combined with non-uniform correction for superior uniformity and dynamic range
- SDE image detail enhancement with smooth, noise-free images, 16 pseudo-color modes, and hot-black/hot-white polarity for detecting low-contrast hidden targets
- Full-HD color/black-and-white dual-mode low-illumination CMOS sensor with 70× compact continuous zoom lens in a small, lightweight package

DESCRIPTION

The AGT-TTVC12615C-2186 dual-band camera is based on sixth-generation uncooled infrared technology and high-definition visible-light imaging technology, designed for remote day and night monitoring. It uses a high-sensitivity 1280×1024 resolution uncooled focal-plane detector with AS optical technology and a miniaturized infrared lens, plus advanced digital circuits and image-processing algorithms to deliver fine, smooth thermal images. The visible channel employs a full-HD color/black-and-white dual-mode low-illumination CMOS sensor and a 70× compact continuous zoom lens, significantly reducing overall size and easing installation. The integrated heavy-duty CNC pan/tilt provides 360° continuous rotation for observation out to 13 km, while an industrial-grade embedded control system manages zoom, focus, mode switching, and stable pan/tilt/rotation. The all-aluminum alloy housing achieves IP66 protection, ensuring reliable long-term operation in harsh field environments. A single network cable carries all video, alarm, and positioning data, simplifying system networking. The camera supports intelligent functions such as cross-border/intrusion detection, target tracking, hot-spot detection and alarm, and day/night cruise presets for unattended operation.

OVERVIEW

- Dual-band long-range day/night camera built on sixth-generation uncooled infrared and full-HD visible-light imaging technology.
- Thermal channel: 1280×1024 high-sensitivity uncooled focal-plane detector, AS optical design, miniaturized infrared lens, and advanced image processing for fine, smooth imagery.
- Visible channel: full-HD color/black-and-white dual-mode low-illumination CMOS sensor with 70× compact continuous zoom lens, reducing overall size and installation effort.
- Heavy-duty CNC pan/tilt enables 360° continuous rotation and observation out to 13 km.
- Industrial-grade embedded control electronics manage zoom, focus, mode switching, and stable PTZ control.
- All-aluminum alloy housing with IP66 protection for reliable long-term field operation.

APPLICATIONS

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

TECHNICAL SPECIFICATION

IMAGE PROCESSING	
Pseudo-color polarity	16 kinds of pseudo-color images, hot black / hot white two polarities
Image parameters	AGC automatic gain control, brightness, contrast
Electronic zoom	1~8X continuous zoom, support global synchronous display
NUC correction	automatic / manual correction, background correction
VISIBLE CAMERA	
Resolution	2 Mega pixels, 1920×1080
Illumination	color:
Encoding	H.265/H.264 video format, support multi-stream
Video bit rate	32Kbps ~ 16Mbps, 60Hz 30 frames / sec
HOUSING	
Material	integral aluminum alloy housing, stainless steel, anti strong wind ;
Structure	Integral double window
Window glass	4mm optical glass,transmission> 98% ;
Surface coating	PTA three-proofing coatings,
Protection	IP66(IP67 optional)
Interface	waterproof aviation connector ;
PT	
Load	50kg PTZ
Range	Pan 0 ~ 360 °, Tilt -45 ° ~ +45 °
Speed	horizontal
Preset position	255, support lens zoom, focus preset

TECHNICAL SPECIFICATION

PT	
Accuracy	±0.1°
Patrol sweep	support 6 cruises, 1 apple peel, 1 line sweep
Watch	Preset / Auto Cruise Route / Auto Scan Route
Power-off memory	support (recoverable position before power-off, preset position status, cruise status, line sweep status)
Bearing information	support angle query return, positioning
Zero point correction	support north direction zero point remote correction function
Power consumption	about 120W
Weight	23kg
INTERFACE	
Network interface	1 way RJ45, 10/100 Base-T adaptive (integrated video output and RS422/485 control communication)
Network protocol	support TCP/IP, UDP, IPv4/v6; support HTTP, RTP, RTSP, NFS, DHCP, NTP, SMTP, SNMPv1/v2c/v3, UPNP, PPPoE, DNS, FTP; support PSIA, ONVIF2.0, GB28181 and other network protocols
Power supply	AC/DC24V, anti-reverse protection
Physical interface	alloy waterproof aviation plug
ENHANCEMENTS	
Glare protection	support, anti-sun burn function
Temperature correction	no thermal image design, imaging resolution is not affected by temperature
Scene mode	support multiple configuration scenarios, adapt to no environment application
Auto focus tuning	support remote auto focus precision parameter adjustment, adapt to different scenes
Day and night cruise	day and night group cruise different preset groups, day cruise 1-40 preset position, night cruise 41-80 preset position, automatically switch day and night according to the photosensitive state, adapt to different time and space scenes
Lens servo	support lens preset position, focal length return, focus positioning function

TECHNICAL SPECIFICATION

ENHANCEMENTS	
Parameter setting	OSD menu remote call operation
Remote maintenance	support embedded program remote upgrade for easy after-sales maintenance
POWER	
Total power consumption	120W
Total weight	25kg (including Pan/Tilt)
ENVIRONMENT	
Working temperature	-25 °C~ +60°C (optional -40 °C)
Storage temperature	-45°C ~ + 70 °C
Humidity	<90%
Impact resistance	15g (according to the
Lightning protection	built-in surge protection of interface circuit, power supply 4000V, signal 2000V
Anti-salt fog	at pH

COMMERCIAL TECHNICAL DATA

DATASHEET · EN

DOCUMENT CONTROL SHEET

ISSUING AUTHORITY

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