



MISSION CATALOG · CB-000033

AGT-TTVC12110C-2150 INDUSTRIAL OUTDOOR THERMAL IMAGING CAMERA FOR BUILDING INSPECTION

The AGT-TTVC12110C-2150 is a dual-band long-range surveillance camera integrating a 1280×1024 uncooled VOx thermal imager, 2MP starlight...

Model AGT-TTVC12110C-2150

KEY BENEFITS

- Integrates infrared thermal image, high-definition visible light, video coding, pan/tilt cover and control electronic system with integrated design, high concentration and easy installation and use.
- Latest-generation MEMS-based VOx detectors with NETD up to 50mK, delivering higher sensitivity, finer image quality, and less influence from fog, rain and snow.
- Unique AS optical design and high-precision optomechanical design for superior image quality.
- Excellent non-uniform image correction technology with good image uniformity and dynamic range.
- SDE image detail enhancement technology for smooth, noise-free images with multiple pseudo-color and hot black/hot white polarity modes to reveal low-contrast hidden targets.
- Full HD color/black and white dual-mode low-illumination CMOS sensor with 70× compact continuous zoom lens, small size and light weight.

DESCRIPTION

The AGT-TTVC12110C-2150 combines sixth-generation uncooled infrared thermal imaging and full-HD visible-light imaging in a single integrated outdoor platform. It uses a 1280×1024 UFPA VOx thermal detector with a 100mm AS-optics lens and SDE digital enhancement, alongside a 2MP starlight CMOS sensor with an 8–500mm 70× continuous zoom lens. The embedded industrial control system manages zoom, focus, mode switching, and PTZ motion, while the all-aluminum IP66 enclosure (IP67 optional) ensures reliable operation in extreme temperatures and harsh weather.

OVERVIEW

- Dual-band camera based on sixth-generation uncooled infrared technology and high-definition visible-light imaging technology for remote day/night monitoring.
- High-sensitivity 1280×1024 uncooled focal-plane thermal detector with AS optical miniaturized infrared lens and advanced digital circuits/image processing for fine, smooth images.
- Visible channel uses full HD color/black and white dual-mode low-illumination CMOS sensor and 70× compact continuous zoom lens, greatly reducing overall size.
- 360° full-scale heavy-duty PTZ enables search and observation within 8000m.
- Industrial-grade embedded control electronics provide stable zoom, focus, mode switching, and PTZ/rotation control.
- Super-strong aluminum alloy housing achieves IP66 protection for medium and long-term field operation in harsh environments.

APPLICATIONS

- Seaport and airport monitoring
- Water system 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
- Highways and railways 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

ORGANIZATION	Volls Global Inc
REGISTERED OFFICE	1207 Delaware Ave #5352
LOCALITY	Wilmington, DE 19806
COUNTRY	United States
POINT OF CONTACT	info@circuitbull.com
BRAND	Circuitbull®
PARENT ORGANIZATION	Volls Global · volls.us

MATRIX CODES · SCAN TO OPEN

01	02	03	04
			
THIS PRODUCT circuitbull.com/.../ agt-ttvc12110c-2150-47715841	REGISTERED ADDRESS 1207 Delaware Ave #5352	MAIN WEBSITE circuitbull.com	VOLLS GLOBAL volls.us

DISTRIBUTION STATEMENT

Uncontrolled when printed. Verify the current revision at the product address before procurement or use. This sheet identifies the issuing organization and the digital addresses for this document.