



MISSION CATALOG · CB-000041

LONG RANGE HD VISIBLE AND NIGHT VISION THERMAL CAMERA AGT-HTVC121030-2186-TG

The AGT-HTVC121030-2186-TG is a long-range multi-sensor PTZ camera combining a 2.1MP visible camera with 11–800mm lens and a 1280×1024 VO...

Model AGT-HTVC121030-2186-TG

KEY BENEFITS

- 800mm full HD visible camera with 2.1MP CCD
- 325mm thermal imager with 384×288/640×512/1280×1024 resolution options, day/night detection 1–21km
- 45mk NETD produces clear thermal images in all weather conditions
- Optional fog penetration with optical filtering and image processing
- 50kg PTZ load with 360° rotation
- IP66 ingress protection ensures reliable operation in harsh weather

DESCRIPTION

The HTVC series remote multi-sensor thermal imager is built for special-purpose long-range surveillance. It integrates a 2 megapixel visible camera and a large-aperture 384×288/640×512/1280×1024 thermal imager on a 360-degree PTZ platform, enabling continuous day/night monitoring from 1km to 20km. A built-in technical control electronic system manages zoom, focus, and video switching, while SDE image enhancement, pseudo-color polarity, AGC, and NUC correction optimize thermal imagery across varying conditions.

OVERVIEW

- HTVC series remote multi-sensor thermal imager designed for special-purpose surveillance
- Combines a 2MP visible camera with a 384×288/640×512/1280×1024 large-aperture thermal imager
- 360-degree PTZ enables 24-hour real-time surveillance from 1km to 20km
- Built-in technical control electronics for zoom, focus, and video switching

APPLICATIONS

- Border/coastal defense
- Harbor and port security
- Oil field monitoring
- River lane surveillance
- Airport security
- Safe city projects

TECHNICAL SPECIFICATION

THERMAL CAMERA	
Available Resolutions	384×288 / 640×512 / 1280×1024
Spectral Response	7.5um–14um
NETD	45mk
Focal Length	25mm~325mm
Optical Zoom	13X continuous zoom
Focus	autofocus
Digital Zoom	8X
VISIBLE CAMERA	
Sensor Type	1/1.8" CMOS
Min Illumination	0.0002lux
Resolution	2.1MP
ICR Switch	Automatic
Video Compression	H.264/MPEG4/MJPEG
Bitrate Range	32Kbps~16Mbps
Frame Rate	60Hz 30 FPS
Focal Length	11mm~800mm
Optical Zoom	72X
Focus	autofocus
Lens Resolution	2MP full HD

TECHNICAL SPECIFICATION

IMAGE PROCESSING & ENHANCEMENTS	
Image Enhancement	SDE digital image enhancement
Pseudo Color	16 pseudo-color images, hot black/hot white
Image Parameters	AGC, brightness, contrast
Electronic Zoom	2×/4×
NUC Correction	Automatic/manual/background
Strong Light Protection	Supported
Sunburn Protection	Supported
Thermalization Design	Temperature correction
Scene Modes	Multi-configuration
Intrusion Detection	Supported
Fire Alarm	Supported
Hot Alarm	Supported
Ranging Scale	Supported
Auto Track	With software
Fog Penetration	Optional
PTZ	
Load	50kg
Pan Range	0°~360°
Tilt Range	+45°~-45°

TECHNICAL SPECIFICATION

PTZ	
Pan Speed	0.01°/S~30°/S
Tilt Speed	0.01°/S~15°/S
Presets	255
Patrol/Scan	Supported
Azimuth Display	Real-time
Zero Correction	Supported
HOUSING	
Material	High strength aluminum alloy
Waterproof Seal	Supported
Moisture Resistance	Mold and moisture resistant
Structure	Integrated multi-window design
Surface Coating	PTA three-resistance coating
Thermostat	Built-in
Connector	Aviation waterproof plug
INTERFACES	
Network Connector	RJ45
Video Format	H.264, dual video output
NETWORK & PROTOCOLS	
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP
ONVIF	ONVIF2.0
PTZ Protocols	Pelco-P, Pelco-D

TECHNICAL SPECIFICATION

NETWORK & PROTOCOLS	
Baudrate Options	2400/4800/9600/19200 optional
POWER SUPPLY	
Input Voltage	AC24V/DC24V±10%
Frequency	50Hz
Standard Supply	AC220V->AC24V
POWER CONSUMPTION	
Power	150W
ENVIRONMENT	
Operating Temperature	-35°C~+60°C (-40°C optional)
Storage Temperature	-40°C~+65°C
Humidity	<90%
Anti-Lightning Power	4000V
Anti-Lightning Signal	2000V
Ingress Protection	IP66

COMMERCIAL TECHNICAL DATA

DATASHEET · EN

DOCUMENT CONTROL SHEET

ISSUING AUTHORITY

ORGANIZATION	Volls Global Inc
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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
			
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