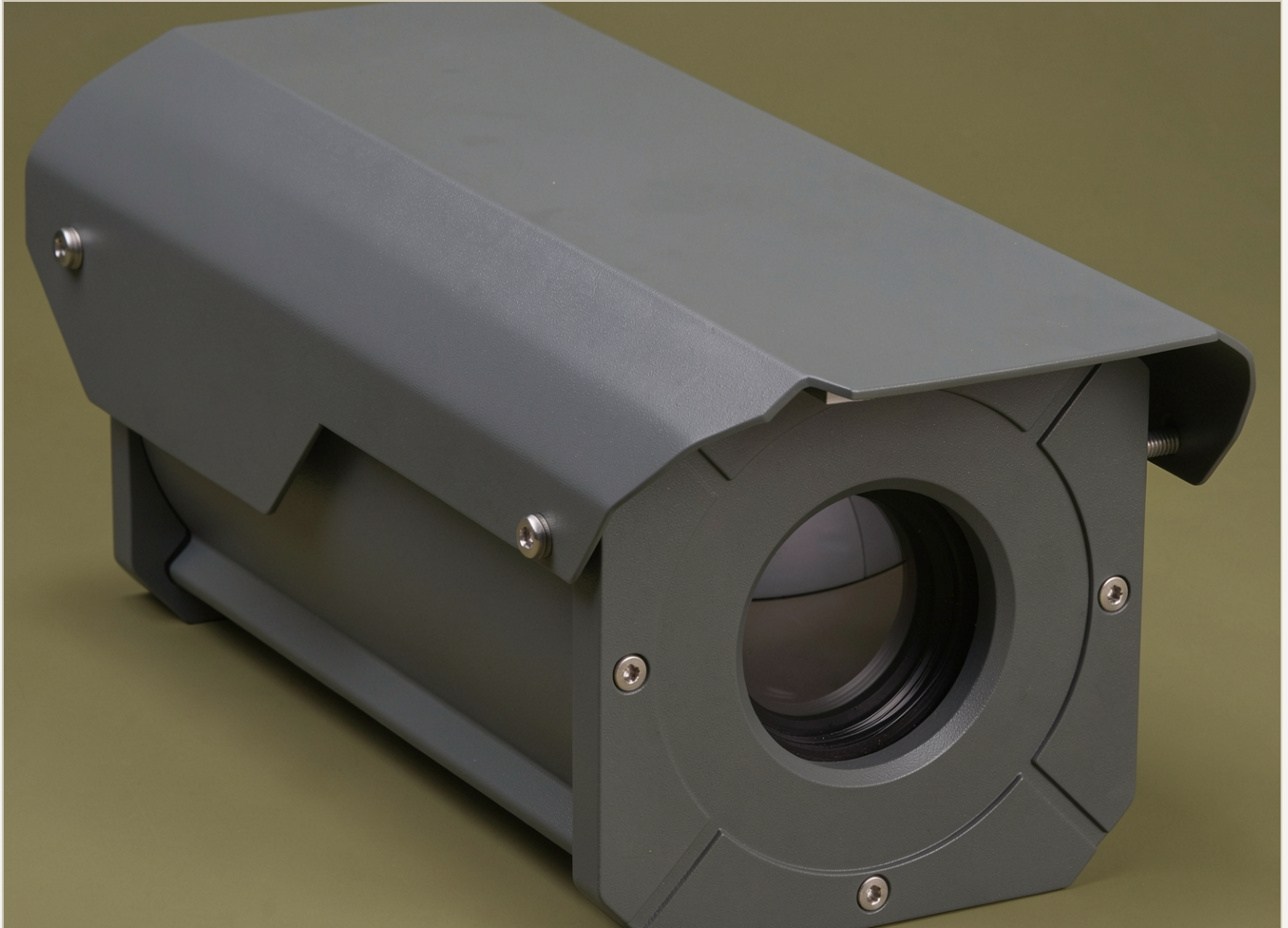




MISSION CATALOG · CB-000011

AGT-TC12105C OUTDOOR PROFESSIONAL THERMAL IMAGING CAMERA FOR BORDER SURVEILLANCE

The AGT-TC12105C is an ultra-long-range uncooled thermal imaging camera with 1280×1024 resolution, a 50mm athermalized lens, and IP66 hou...

Model AGT-TC12105C

KEY BENEFITS

- Ultra-long-range detection with 1280×1024 uncooled IR resolution and advanced image processing
- All-weather imaging through fog, dirt, rain, and snow for 24-hour operation
- IP66 integral aluminum alloy housing withstands harsh outdoor and marine environments
- Optional precision PTZ with 360° continuous pan, 80 presets, and variable-speed scanning
- Stable, TEC-free operation with non-uniform correction and good dynamic range

DESCRIPTION

The AGT-TC12105C outdoor professional thermal imaging camera is built around a 5th-generation uncooled UFPA VOx detector with 1280×1024 resolution and 50mK NETD, delivering detailed thermal imagery through fog, rain, snow, and dust. It features a 50mm athermalized lens with AS+DOE optical design, SDE digital image processing, AGC, 10 pseudo-color palettes, and 1–8× digital zoom. The integral aluminum alloy housing is IP66-rated with PTA anti-seawater coating, built-in thermal management, and an optional precision PTZ for 360° continuous pan and ±45° tilt operation.

OVERVIEW

- NETD 50mK enhances imaging detail in adverse weather
- Non-uniform image correction technology with stable working temperature and no TEC
- SDE digital image processing with low image noise, 10 pseudo-color modes, and B/W switch
- Digital control PT with 360° continuous rotation, no dead corner, stable operation, and low dithering
- Integral aluminum alloy housing with IP66 weatherproof, waterproof, and dustproof protection

APPLICATIONS

- Border surveillance
- Perimeter security
- Long-range target seeking and observation
- Coastal and marine monitoring
- All-weather critical infrastructure protection

TECHNICAL SPECIFICATION

LENS	
Field of view	17.6°×14.1°
IFOV	0.24mrad
Athermalized	Athermalized
Optical design	AS+DOE advanced optical design, high IR transmission
IMAGE PROCESSING	
Image processing algorithm	SDE digital image processing
Pseudo color modes	10 pseudo color
Monochrome modes	B/W, B/W inverse
AGC	Supported
Digital magnification	1-8X continuous
HOUSING	
Material	Aluminum alloy
Structure	Integral single window
Surface coating	PTA coating
Corrosion resistance	Anti sea water corrosion
Sealing / IP rating	IP66
Temperature controller	Built-in
Thermal balance design	Thermal balance design
Connector	Aviation waterproof connector
PTZ	
Load capacity	30kg

TECHNICAL SPECIFICATION

PTZ	
Pan range	0–360°
Tilt range	-45° to +45°
Speed range	0.01–30°/s
Speed control	High precision variable speed control and locking
Presets	80
Zoom / focus memory	Supported
Scanning speed	0–30°/s
Apple peel scan	Supported
POWER CONSUMPTION	
Minimum power	min. 40W
Maximum power	max. 120W
WEIGHT	
Total weight	≤45kg (PT included)
INTERFACE	
Network interface	RJ45
Remote OSD	Supported
Video output	PAL/NTSC
Power input	AC/DC24V anti-reverse connection protection
Connector	Waterproof connector
ENVIRONMENT	
Operating temperature	-25°C to +55°C (-40°C optional)
Storage temperature	-35°C to +75°C

TECHNICAL SPECIFICATION

ENVIRONMENT	
Humidity	<90%
Anti-shock	0.2g (GB/T15211-2013 5.4 harshest level 2)
Anti-vibration	15g (GB/T15211-2013 5.3 harshest level 3)
Anti-lightning power	4000V
Anti-lightning signal	2000V
Salt spray pH	6.5–7.2
Salt spray duration	48 hours continuous spraying
Protection rating	IP66

COMMERCIAL TECHNICAL DATA

DATASHEET · EN

DOCUMENT CONTROL SHEET

ISSUING AUTHORITY

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MATRIX CODES · SCAN TO OPEN

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