



MISSION CATALOG · CB-000023

AGT-TC12110C LONG RANGE THERMAL IMAGING CAMERA FOR MARINE MOUNTING

The AGT-TC12110C is a long-range uncooled thermal imaging camera with 1280×1024 resolution, a 100 mm lens, and IP66 marine-grade housing...

Model AGT-TC12110C

KEY BENEFITS

- Ultra-long range thermal imaging based on the latest uncooled IR technology
- 1280×1024 resolution with advanced digital circuit and image processing algorithm
- 100 mm thermal lens with detection distance up to 9 km for seeking and watching
- Integral aluminum alloy housing with IP66 sealing for harsh outdoor and marine conditions
- High-sensitivity FPA sensor penetrates fog, dirt, rain, and snow for 24-hour imaging

DESCRIPTION

The AGT-TC12110C is an ultra-long range thermal imaging camera built on the latest uncooled IR technology. It combines a high-sensitivity 1280×1024 FPA sensor, advanced digital circuitry, and SDE image processing to deliver detailed thermal video through fog, dust, rain, and snow. The integrated aluminum alloy housing is sealed to IP66 and treated for marine environments, making it suitable for continuous outdoor and maritime deployment.

OVERVIEW

- NETD 50 mK enhances imaging details even in foggy, rainy, or snowy weather
- Non-uniform image correction technology with stable working temperature without TEC
- SDE digital image processing with no image noise, 10 pseudo color modes, and B/W switch
- Digital control PT with 360° continuous rotation, no dead corner, stable operation, and small dithering
- Integral aluminum alloy housing, weatherproof IP66, waterproof, and anti-dust

TECHNICAL SPECIFICATION

GENERAL	
Product name	AGT-TC12110C Long Range Thermal Imaging Camera for Marine Mounting
Model	AGT-TC12110C
SMARTID	Cb-000023
Mounting type	Marine
DETECTION	
Vehicle range	8600 m
Human range	3400 m
RECOGNITION	
Vehicle range	2400 m
Human range	1000 m
SENSOR	
Detector type	5th generation UFPA Vox detector
Resolution	1280×1024
NETD	50 mK (@25°C F1.0)
Spectral range	12 μm

TECHNICAL SPECIFICATION

LENS	
Focal length	100 mm
FOV	8.8°×7°
IFOV	0.12 mrad
Focus type	Electric focus, auto focus
Optical design	AS+DOE advanced optical design
Infrared transmission	High
ENHANCEMENTS	
Image processing	SDE digital image processing
Pseudo color	10 pseudo color and B/W, B/W inverse
AGC	AGC
Digital zoom	1-8X continuous digital amplification
HOUSING	
Material	Aluminum alloy
Waterproof	Yes
Structure	Integral single window design
Coating	PTA coating
Corrosion resistance	Anti sea water corrosion
Sealing / IP rating	IP66
Temperature controller	Built-in
Thermal balance design	Yes

TECHNICAL SPECIFICATION

HOUSING	
Connector	Aviation waterproof connector
PTZ	
Load	30 kg
Pan range	0~360°
Tilt range	-45°~+45°
Pan/tilt speed	0.01~30°/S
Presets	80
Scanning speed	0~30°/S
Features	Support lens zoom and focus memory, apple peel scanning function
CONSUMPTION	
Min power	min. 40 W (PT included)
Max power	max. 120 W (PT included)
WEIGHT	
Total weight	≤45 kg (PT included)
INTERFACE	
Ethernet	RJ45
OSD setting	Remote OSD setting
Video output	PAL/NTSC
Power input	AC/DC24 V
Reverse connection protection	Anti-reverse connection protection
Connector	Waterproof connector
ENVIRONMENT	
Working temperature	-25°C~+55°C (-40°C optional)

TECHNICAL SPECIFICATION

ENVIRONMENT	
Storage temperature	-35°C~+75°C
Humidity	<90%
Anti-shock	0.2 g (GB/T15211—2013 5.4 harshest level 2)
Anti-resistance	15 g (GB/T15211—2013 5.3 harshest level 3)
Anti-lightening power	4000 V
Anti-lightening signal	2000 V
Anti-salty pH	pH 6.5~7.2
Anti-salty spray duration	48 h
Protection rate	IP66

COMMERCIAL TECHNICAL DATA

DATASHEET · EN

DOCUMENT CONTROL SHEET

ISSUING AUTHORITY

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COUNTRY	United States
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PARENT ORGANIZATION	Volls Global · volls.us

MATRIX CODES · SCAN TO OPEN

01	02	03	04
			
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