



MISSION CATALOG · CB-000013

AGT-TC12615C IR HIGH SPEED THERMAL IMAGING CAMERA FOR AQUACULTURE

The AGT-TC12615C is an ultra-long range continuous zoom thermal imaging camera featuring a 1280×1024 uncooled VOx detector, 25–150mm opti...

Model AGT-TC12615C

KEY BENEFITS

- Ultra-long range continuous zoom thermal imaging based on latest uncooled IR technology
- 1280×1024 resolution with advanced digital circuit and image processing algorithm
- Detection distance up to 13 km for vehicles, suitable for seeking and watching
- Integral aluminum alloy housing with IP66 sealing for harsh outdoor conditions
- Penetrates fog, dirt, rain, and snow for 24-hour imaging

DESCRIPTION

The AGT-TC12615C ultra-long range continuous zoom thermal imaging camera is based on the latest uncooled IR technology and continuous IR optical zoom. It delivers best imaging details with 1280×1024 resolution, advanced digital circuit and image processing algorithm, and a specially designed continuous zoom lens with vehicle detection distance up to 13 km. The camera integrates a high-sensitivity FPA sensor, electronic and optical systems into one integral aluminum alloy housing, ensuring IP66 sealing and reliable operation in harsh outdoor conditions. It can penetrate fog, dirt, rain, and snow to provide 24-hour imaging for seeking and watching applications.

OVERVIEW

- NETD 50 mK enhances imaging details even in foggy, rainy, or snowy weather
- Unique AS+DOE optical design and 3CAM high-precision optomechanical design suit large-scale seeking and long-distance watching
- Non-uniform image correction technology with stable working temperature without TEC, good image uniformity and dynamic range
- 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 with weatherproof IP66, waterproof, and anti-dust protection

APPLICATIONS

- Aquaculture monitoring
- Long-range seeking and watching
- Outdoor surveillance in harsh weather conditions
- All-weather imaging through fog, rain, and snow

TECHNICAL SPECIFICATION

OPTICAL	
Optical Design	AS+DOE advanced optical design, high infrared transmission
Optomechanical Design	Applied 3CAM high precision design
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
Relay Zoom	Optical electronic relay zoom
DETECTION	
Vehicle	13000m
Human	4800m
RECOGNITION	
Vehicle	3400m
Human	1600m
PTZ	
Availability	Optional
Load	30kg
Type	Digital PT
Pan Range	0~360°
Tilt Range	-45°~+45°
Speed	0.01~30°/S
Speed Control	High precision variable speed control and locking

TECHNICAL SPECIFICATION

PTZ	
Presets	80
Lens Memory	Support lens zoom and focus memory
Scanning Speed	0~30°/S
Apple Peel Scan	Support apple peel scanning function
HOUSING	
Material	Aluminum alloy
Waterproof	Yes
Structure	Integral single window design
Surface Coating	PTA coating
Corrosion Resistance	Anti sea water corrosion
Sealing / IP Rating	IP66
Temperature Controller	Built-in
Thermal Balance Design	Yes
INTERFACE	
RJ45	RJ45 interface
Remote OSD	Remote OSD setting
Video Output	PAL/NTSC
Power Input	AC/DC24V
Anti-Reverse Protection	Yes
Connector	Aviation waterproof connector

TECHNICAL SPECIFICATION

CONSUMPTION	
Minimum	40W
Maximum	120W
Note	PT included
WEIGHT	
Weight	≤45kg
Note	PT included
ENVIRONMENT	
Working Temperature	-25°C~+55°C (-40°C optional)
Storage Temperature	-35°C~+75°C
Humidity	<90%
Anti-Shock	0.2g (GB/T15211—2013 5.4 harshest level 2 standard)
Anti-Vibration	15g (GB/T15211—2013 5.3 harshest level 3 standard)
Anti-Lightning Power	4000V
Anti-Lightning Signal	2000V
Salt Spray pH	PH6.5~7.2
Salt Spray Duration	Continuous spraying 48 hours
Protection Rate	IP66

COMMERCIAL TECHNICAL DATA

DATASHEET · EN

DOCUMENT CONTROL SHEET

ISSUING AUTHORITY

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MATRIX CODES · SCAN TO OPEN

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