



MISSION CATALOG · CB-000031

AGT-TC61030 LONG RANGE INFRARED THERMAL IMAGING CAMERA FOR TRAFFIC

The AGT-TC61030 is a long-range thermal imaging camera featuring a 640×512 uncooled VOx detector, 30–300mm continuous 10× optical zoom, a...

Model AGT-TC61030

KEY BENEFITS

- Latest uncooled IR technology with continuous IR optical zoom
- 640×512 resolution with advanced digital circuit and image processing algorithm
- 10× optical zoom lens with 18 km detection distance 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-TC61030 long-range zoom thermal camera uses the latest uncooled IR technology and continuous IR optical zoom to deliver high-contrast thermal imagery at 640×512 resolution. Its advanced digital circuitry and image processing algorithms provide clear imaging details, while the 10× optical zoom lens supports detection out to 18 km for both wide-area search and long-range observation. The integrated aluminum alloy housing is sealed to IP66, ensuring reliable operation in harsh outdoor environments including fog, dust, rain, and snow.

OVERVIEW

- NETD 50 mK enhances imaging details in foggy, rainy, or snowy weather
- Unique AS+DOE optical design and 3CAM high-precision optomechanical design for large-scale seeking and long-distance watching
- Non-uniform image correction technology with stable working temperature and no TEC, delivering good image uniformity and dynamic range
- SDE digital image processing with low noise, 10 pseudo-color palettes, and B/W switch
- Digital control PT with 360° continuous rotation, no dead corners, stable operation, and small dithering
- Integral aluminum alloy housing with IP66 weatherproof, waterproof, and anti-dust protection

APPLICATIONS

- Oilfield safety
- Railway and freeway security
- River and airport security
- Forest fire prevention
- City safety

TECHNICAL SPECIFICATION

LENS	
Auto focus	Optional
Optical design	AS+DOE advanced optical design
Precision design	3CAM high precision design
THERMAL IMAGE PROCESSING	
Startup time	<4 s
Image processing	SDE digital image processing
Pseudo color modes	10 pseudo color and B/W, B/W inverse
AGC	AGC
Digital amplification	1~8×
HOUSING	
Material	Aluminum alloy
Structure	Integral single window design
Surface coating	PTA coating, anti sea water corrosion
Sealing / IP rating	IP66
Temperature controller	Built-in
Connector	Aviation waterproof connector
PTZ (OPTIONAL)	
Load capacity	50 kg digital PT
Pan range	0~360°
Tilt range	-45°~+45°
Speed	0.01~30°/S

TECHNICAL SPECIFICATION

PTZ (OPTIONAL)	
Speed control	High precision variable speed control and locking
Presets	80
Preset memory	Lens zoom and focus memory
Scanning speed	0~30°/S
Scanning function	Apple peel scanning function
Protocols	Pelco-P, Pelco-D
Baud rates	2400/4800/9600/19200 bps optional
POWER CONSUMPTION	
Minimum power	40 W (PT included)
Maximum power	120 W (PT included)
WEIGHT	
Total weight	≤40 kg (PT included)
INTERFACE	
RS-485	RS-485
RS-485 protocol	PELCO D
RS-485 baud rate	2400 bps
RS-232	Optional
Remote OSD	Remote OSD setting
Video output	PAL/NTSC
Power input	AC24V (DC12V option)
Connector	Waterproof connector

TECHNICAL SPECIFICATION

ENVIRONMENT	
Operating 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-resistance	15g (GB/T15211—2013 5.3 harshest level 3 standard)
Anti-salt corrosion	PH6.5~7.2, continuous spraying 48 hours
Protection rate	IP66
DETECTION	
Detection distance	18 km

COMMERCIAL TECHNICAL DATA

DATASHEET · EN

DOCUMENT CONTROL SHEET

ISSUING AUTHORITY

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MATRIX CODES · SCAN TO OPEN

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