



MISSION CATALOG · CB-000043

AGT-TVC61023-20100 LONG RANGE MULTI-SENSOR THERMAL CAMERA

Long-range dual-sensor PTZ camera combining a 2MP visible module and a 640×512 uncooled thermal imager for 24-hour surveillance up to 40...

Model AGT-TVC61023-20100

KEY BENEFITS

- 2MP visible CCD with 12–1000 mm lens delivers long-range daytime detail and 83X zoom
- 640×512 uncooled thermal sensor with 23–230 mm, 10X continuous optical zoom for day/night imaging
- 45 mK NETD produces crisp thermal images under all weather conditions
- 360-degree PTZ with $\pm 0.1^\circ$ accuracy, 255 presets, and power-off memory
- IP66 ingress protection ensures reliable operation in tough environments
- Optional fog penetration with optical filtering and DSP image processing
- Athermalized design maintains imaging clarity across temperature extremes
- Built-in intelligent analytics with target classification, tracking, and alarm functions

Quoted & supported by Circuitbull® (Volls Global Inc)

DESCRIPTION

The AGT-TVC61023-20100 is a long-range multi-sensor thermal camera built for demanding security and monitoring tasks. It pairs a 2MP visible CCD camera with a 12–1000 mm lens and a 640×512 5th-generation uncooled thermal FPA sensor with 23–230 mm continuous optical zoom, enabling detection of vehicles at 20–40 km and humans at 15–25 km in day or night conditions. The camera is mounted on a 360-degree continuous pan PTZ with $\pm 0.1^\circ$ positioning accuracy, 255 presets, and power-off memory. Its technical-grade control electronics provide electric zoom, adaptive auto/manual focus, and rapid video switching, while the IP66-rated enclosure and athermalized design ensure reliable operation in harsh environments. Advanced image processing, intelligent analysis rules, target classification, and radar/hardware tracking support make it suitable for border, city, oilfield, railway, and forensic applications.

OVERVIEW

- Dual-sensor long-range surveillance camera integrating visible and uncooled thermal channels
- Designed for 24-hour real-time monitoring with detection ranges up to 40 km for vehicles
- 5th-generation 640×512 uncooled FPA sensor with 7.5–14 μm spectral range
- Advanced lens control using 3CAM method and AS+DOE opto-mechanical structure
- Image processing includes SDE, AGC, NUC, 20 pseudo-color modes, and 8X digital zoom
- Supports AR information fusion, ROI eagle-eye map, and radar-guided tracking
- Compatible with FR4000 system and supports field-of-view synchronization

APPLICATIONS

- City safety
- Oilfield safety
- Railway security
- Night evidence gathering
- Border and perimeter surveillance
- Critical infrastructure protection

COMMERCIAL TECHNICAL DATA

DATASHEET · EN

DOCUMENT CONTROL SHEET

ISSUING AUTHORITY

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MATRIX CODES · SCAN TO OPEN

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