



MISSION CATALOG · CB-000057

AGT-DRC1930 WIDE AREA SURVEILLANCE DOME INFRARED CAMERA

The AGT-DRC1930 is a high-speed laser night vision dome camera with 2.1 MP HD CMOS, 30× optical zoom, 808nm NIR laser illumination, and P...

Model AGT-DRC1930

KEY BENEFITS

- 2.1 MP HD CMOS with 30× optical zoom and 808nm NIR laser illumination for clear night monitoring up to 400m
- High-speed, stable PTZ with 360° continuous pan and precise positioning
- DSS laser angle control with 0.1° minimum sync zoom and manual/sync zoom support
- GHT laser homogenizing technology for uniform illumination
- Independent photo-resistor switch synchronizes color mode and laser on/off; intelligent delay avoids car-light interference
- All-metal cooling housing with CGS cooling system and cycle air-cooling for reliable thermal management
- SDE image detail enhancement with B/W and B/W inverse color modes

DESCRIPTION

The AGT-DRC1930 wide-area surveillance dome infrared camera combines a 2.1 megapixel 1/2.8 inch CMOS sensor with a 4.3–129 mm, 30× optical zoom lens and 808nm NIR laser illumination to deliver detailed video day and night. Its DSS laser angle control and GHT laser homogenizing technology provide uniform, synchronized illumination across the zoom range, while the precision PTZ mechanism offers 360° continuous pan, -90° to +5° tilt, and preset speeds up to 250°/s. Built for demanding outdoor environments, the camera features an all-metal cooling housing with CGS cooling and cycle air-cooling for the night vision module, IP66 weatherproofing, and TVS4000V anti-lightning/anti-surge protection. It supports H.264 dual-stream encoding, ONVIF and GB/T28181 compatibility, SD card storage, motion detection, mask alarm, and online firmware updates.

OVERVIEW

- 50° laser illuminator, 2.1 MP HD CMOS, max illumination distance 300m–420m
- Unique DSS laser angle control, min 0.1° sync zoom accompany camera, support manual zoom and sync zoom
- Unique GHT laser homogenizing technology
- Independent photo-resistor switch ensures camera color mode and laser on/off synchronize; built-in intelligent delay avoids car-light influence
- All-metal cooling housing, CGS cooling system and double sun block, night vision module cycle air-cooling
- SDE image detail enhancement technology, no noise, B/W and B/W inverse color mode
- Multi-bearing structure
- Support online software update
- Electric motor drive, quick reaction, smooth rotation, tolerance less than 0.1°
- Support 3D intelligent positioning function, click tracking enlarge
- Address and protocol DIP switch on the side
- Weatherproof rate IP66, anti-rain, anti-dust, TVS4000V anti-lightning

APPLICATIONS

- Seaport and airport monitoring
- Water system monitoring
- Storage monitoring
- Base security monitoring
- Oilfield and oil depot security
- Fire source prevention and monitoring
- Ecological and environmental monitoring
- Border and coastal defense
- Urban security and anti-UAV applications
- Highway and railway monitoring
- City safety
- Stadium, plaza, and scenic spot monitoring
- Lake and river monitoring

TECHNICAL SPECIFICATION

SENSOR	
Intelligent delay	Built-in intelligent delay to avoid car light influence
OPTICAL	
Focal length	4.3~129 mm
Optical zoom	30×
Aperture range	F1.6~F5.0
Field of view	65°~2.3°
HD lens	Supported
Auto focus	Supported
Automatic exposure	Supported
VIDEO	
Video compression	H.264
Bitrate range	32k~8Mbps
Streaming	Dual-stream
Heartbeat	Supported
Smart encoding	Supported
Electronic shutter	Supported
White balance	Supported
3D DNR	Supported
DWDR	Supported
SD card	Supported

TECHNICAL SPECIFICATION

VIDEO	
Motion detection	Supported
Mask alarm	Supported
SDE image detail enhancement	Supported
B/W inverse color mode	Supported
LASER	
Laser illuminator angle	50°
Wavelength	808 nm NIR
Max illumination distance	300 m - 420 m
Laser lens	30 mm F1.0 fast lens
Laser homogenization	GHT laser homogenizing technology
Laser angle	2°~50°
Laser angle control	DSS
Fast track response	30 ms
Sync zoom accuracy	0.1°
Zoom modes	Manual zoom, sync zoom
Laser on/off control	Auto/Manual
Laser power consumption	5 W
Optical axis aiming	0.01° SLM optical axis aiming and locking
PTZ	
Pan range	360° continuous

TECHNICAL SPECIFICATION

PTZ	
Tilt range	-90°~+5°
Auto reverse	Supported
Pan speed	0.01°~200°/s
Tilt speed	0.01°~120°/s
Max preset call speed	250°/s
Speed adaptive to zoom	Supported
Preset count	255
Preset memory after power breakdown	Supported
Scan	Supported
Keep watch	Supported
Motor drive	Electric motor drive
Rotation tolerance	<0.1°
3D intelligent positioning	Supported
Click tracking enlarge	Supported
DETECTION	
Day detection range	800 m
Night detection range	400 m
INTERFACE	
Physical interface	RJ45
Ethernet speed	10M/100M Ethernet

TECHNICAL SPECIFICATION

INTERFACE	
Baud rate	2400/4800/9600/19200 bps
Address/protocol DIP switch	Side-mounted
NETWORK	
Network protocols	TCP/IP, RTP/RTCP, HTTP, etc.
Compatibility	ONVIF, GB/T28181
POWER	
Power supply	DC12V/4A
CONSUMPTION	
Typical consumption	≤40 W
Peak consumption	≤60 W
ENVIRONMENT	
Operating temperature	-30°C~60°C
Humidity	<90%RH non-condensing
IP rating	IP66
Surge protection	TVS4000V anti-lightning
Anti-wave	Supported
HOUSING	
Construction	All metal cooling housing
Cooling system	CGS cooling system
Sun block	Double sun block
Night vision cooling	Cycle air-cooling
Multi-bearing structure	Supported
DIMENSIONS	
Dimensions	Φ230 mm × 348 mm

TECHNICAL SPECIFICATION

WEIGHT	
Weight	5 kg
ENHANCEMENTS	
Customizable privacy shade	Supported
3D box selection magnification	Supported
Online update	Supported

COMMERCIAL TECHNICAL DATA

DATASHEET · EN

DOCUMENT CONTROL SHEET

ISSUING AUTHORITY

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