



Caméra PTZ Autonome Girocam-MeSH



- **Caméra Jour / Nuit Motorisée Auto alimentée**
- **Transmission Radio Numérique par réseau MeSH**
- **Enregistreur vidéo Full HD intégré**
- **Consultable et Pilotable à distance en 4G LTE**
- **Auto Tracking intelligent Humains & Véhicules**
- **Ultra Sensible, images couleur jusqu'à 0,005 Lux**
- **Projecteur IR Nocturne portée 150 m**
- **Envois d'alertes sur détection**
- **Batterie rechargeable par PoE et 12VDC**
- **Autonomie 10 heures / 20 heures en option**

PRÉSENTATION

Système compact et étanche déployable instantanément sur tous les sites à surveiller. Détection et suivi de cibles mouvantes avec zoom puissant et focus automatiques. Reconnaissance humaine et faciale, suivi de véhicules motorisés ou non. Captures d'images sur alarmes ou détection avec scénarios programmables. Accès aux images live ou enregistrées, et pilotage à distance par radio ou par 4G (*option*).

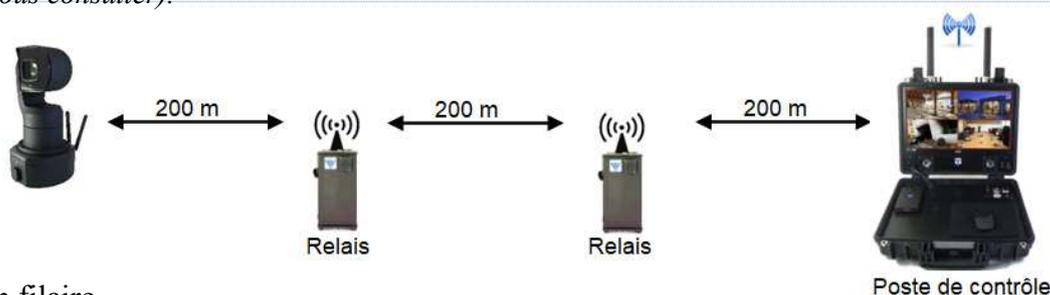
APPLICATIONS

Protection et surveillance de larges périmètres grâce au zoom optique et digital, Filtrage automatique de fausses alarmes dues aux animaux ou à la végétation, Reconnaissance faciale précise sur 6 attributs et 8 expressions

CONNECTIVITÉ

Radio par réseau MeSH

La liaison radio par réseau MeSH permet de contourner des obstacles majeurs ou de prolonger la portée tous les 200m en interposant en nombre illimité des relais auto alimentés (*nous consulter*).



En filaire



Une interface IP RJ45 permet le raccordement direct à tous PC ou réseau pour un contrôle intégral.

L'alimentation électrique permanente ou la recharge batterie peuvent se faire indifféremment en 12 VDC ou par PoE.



Girocam-MeSH

Caméra PTZ Jour/Nuit Ultra Sensible autonome avec suivi de cibles automatique



- 1/2.8" 2Megapixel CMOS
- 25x optical zoom, and 16x digital zoom
- Starlight technology
- Max. 50/60 fps@1080P
- IR distance up to 150 m
- Auto-tracking, perimeter protection, and face detection
- SMD Plus, video metadata
- Pan: 360° endless; Tilt: -90°to 90°, auto flip 180°



WizSense is a series of AI products and complete end-to-end solution based on deep-learning. focuses on human and vehicle, benefiting everyone with intelligent functions, simple configuration and inclusive products.

System Overview

The product is equipped with neural network processor; it supports WizSense intelligent functions to effectively improve the detection accuracy, supports people, motor vehicle and non-motor vehicle image capture, and supports perimeter protection.

Functions

Video Metadata

Supports detection of motor vehicles, non-motor vehicles, human faces and human bodies. Supports tracking, capturing pictures, and uploading high-quality snapshots.

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets to improve alarm accuracy.

Face Detection

Supports 6 attributes and 8 expressions, face enhancement, and attributes extraction.

Starlight Technology

For challenging low-light applications, Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 Lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

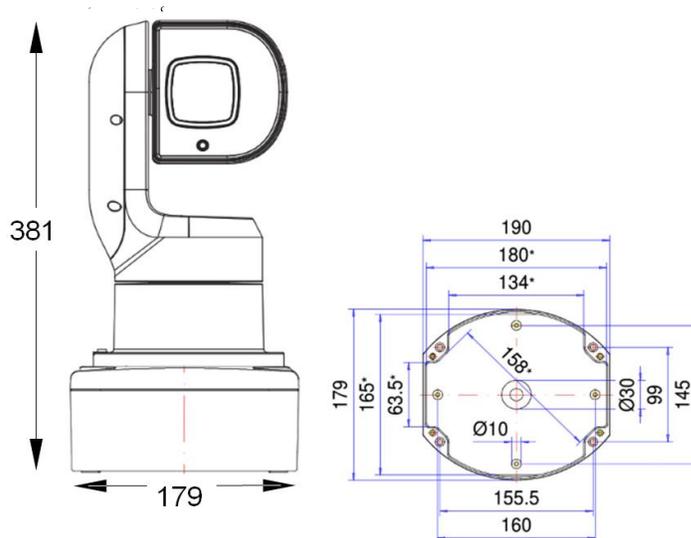
PFA Technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

Auto-tracking

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

Dimensions (mm)]



Technical Specification

Camera

Image Sensor	1/2.8" CMOS
Pixel	2MP
Max. Resolution	1920 (H) × 1080 (V)
ROM	4 GB
RAM	1 GB
Electronic Shutter Speed	1/1 s–1/30000 s
Scanning System	Progressive
Min. Illumination	Color: 0.005 Lux@F1.6 B/W: 0.0005 Lux@F1.6 0 Lux (IR light on)
Illumination Distance	150 m (492.13 ft)
Illuminator On/Off Control	Zoom Prio/Manual/Off
Illuminator Number	4 IR lights

Lens

Focal Length	4.8 mm–120 mm			
Max. Aperture	F1.6–F3.5			
Field of View	H: 61°–2.8°; V: 33.2°–1.7°; D: 67.3°–3.9°			
Optical Zoom	25x			
Focus Control	Auto/Semi-Auto/Manual			
Close Focus Distance	0.1 m–1.5 m (0.33 ft–4.92 ft)			
Iris Control	Auto			
DORI Distance	Detect	Observe	Recognize	Identify
	1655.2 m (5430.45 ft)	656.8 m (2154.86 ft)	331 m (1085.96 ft)	165.5 m (542.98 ft)

PTZ

Pan/Tilt Range	Pan: 0°–360° endless Tilt: –90° to +90° auto flip 180°
Manual Control Speed	Pan: 0.1°/s–120°/s Tilt: 0.1°/s–75°/s
Preset Speed	Pan: 160°/s; Tilt: 110°/s
Presets	300
Tour	8 (up to 32 presets per tour)
Pattern	5
Scan	5
Power-off Memory	Support
Idle Motion	Preset/Tour/Pattern/Scanning
Protocol	DH-SD Pelco-P/D (auto recognition)

Artificial Intelligence

Video Metadata	Supports detecting motor vehicles, non-motor vehicles, human faces and human bodies. Supports tracking, capturing pictures, and uploading high-quality snapshots.
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Perimeter Protection	Tripwire, intrusion, abandoned object and missing object. Supports triggering alarms based on human and vehicle classification and tracking linkage.
Face Detection	Support

Video

Compression	H.264; H.265; H.264B; H.264H; MJPEG (Sub Stream); H.265+; H.264+
Streaming Capability	3 streams
Resolution	1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576); CIF (352 × 288)
Frame Rate	Main stream: 1080P/960P/720P (1–50/60 fps) Sub stream 1: D1/CIF (1–50/60 fps) Sub stream 2: 1080P/960P/720P/D1/CIF (1–50/60 fps)
Bit Rate Control	Variable/constant
Bit Rate	H.264: 3 Kbps–20480 Kbps H.265: 3 Kbps–20480 Kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Support
WDR	120 dB
HLC	Support
White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/ Natural light/Street lamp
Gain Control	Auto/Manual
Noise Reduction	2D/3D
Motion Detection	Support
Region of Interest (RoI)	Support
Image Stabilization	Electronic
Defog	Electronic
Digital Zoom	16x
Flip	180°
Privacy Masking	Up to 24 areas, and up to 8 areas in the same view
S/N Ratio	≥ 55 dB

Audio

Compression	G.711A; G.711Mu; G.726; AAC; MPEG2-Layer2; G.722.1; G.729; G.723
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Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP; UPnP; SNMP; DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; SNMPv1/v2c/v3 (MIB-2); RTCP; RTMP
Interoperability	ONVIF (Profile S/Profile G); CGI
Streaming Method	Unicast/Multicast
User/Host	20 (total bandwidth 64M)
Storage	FTP; Micro SD card (256G); NAS
Browser	IE7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari

Management Software	Smart PSS; DSS; DMSS; Easy4ip; IVSS
Mobile Phone	iOS; Android

Certification

Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014
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Port

Audio In	1 (LINE IN; bare wire)
Audio Out	1 (LINE OUT; bare wire)
Two-way Audio	Support
Alarm In	2 digital inputs (0-5V DC)
Alarm Out	1
Alarm Linkage	Capture; preset; tour; pattern; SD card record; trigger digital output; client electronic map; send email
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; encoder state detection; memory card state detection; memory space detection

Power

Supply	Li-Ion Battery 10 Hours (20 AH option) DC 12V/4A ± 10% PoE+ (802.3at)
Power Consumption	Basic: 14W Max: 23W (IR light on, PTZ operations)

Environment

Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Operating Humidity	≤ 95%
Protection	IP67; TVS 8000V lightning proof; surge protection; voltage transient protection

Structure

Dimensions	1.0 mm × 135,3 mm × 291.5 mm
Net Weight	6 kg
Gross Weight	6.4 kg (14.11 lb)

Accessories Optional:

Receiver & Control Case for 1 to 4 cameras

- ▶ 19,5" HD LCD monitor in the cover
- ▶ 4 channels Network Video Recorder with multiple image display
- ▶ Digital Radio receiver with visible level meter with 8 dBi omni antenna
- ▶ Removal hard disk cartridge 1 To (1 pce included)
- ▶ IP external interface for PC / Ethernet connexion
- ▶ Built-in battery for temporary plug off (1 hour)
- ▶ XLR3 DC input +110/220 VAC switched power supply
- ▶ Wireless mouse for all controls (PTZ, Record, Display, playback)

Fast deployment - Easy to use - Plug & Play



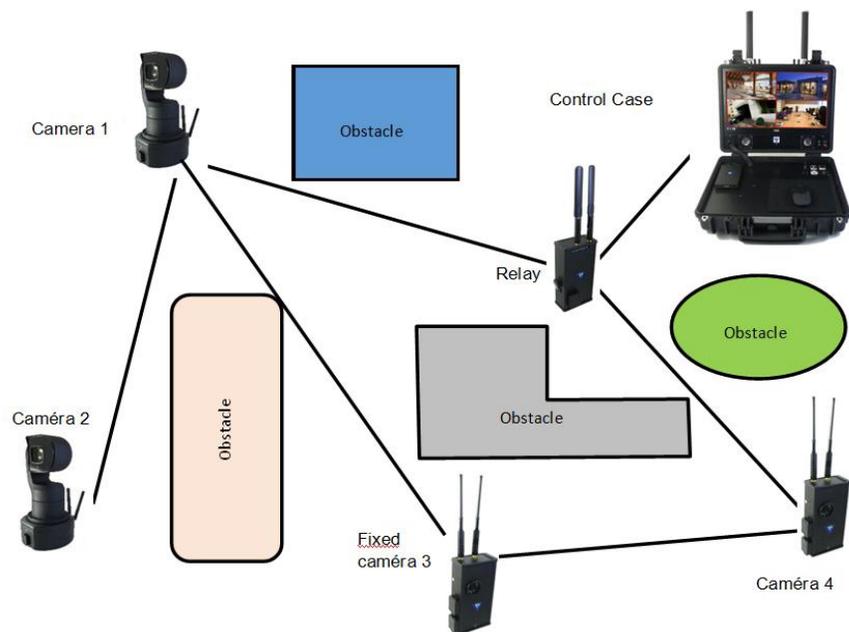
Relay

Outdoor Digital Radio Relay to be interposed between camera & case if any major obstacle or too long distance
Built-in Li-Ion 10 hours battery delivered with automatic charger
OFDM 2,4Ghz digital radio transmitter with omnidirectional antenna
Weatherproof metal housing with mounting 1/4" Unc hole for tripod



Additional economical camera

Outdoor Fixed camera, day & night operation, wide angle lens
Automatic IR LED 25m projector, Full HD resolution 1920 x 1080.
Integrated Digital OFDM 2,4Ghz radio transmitter & omnidirectional antennas.
Built-in Li-Ion battery 8 hours delivered with automatic charger
Weatherproof metal housing with mounting hole for tripod, or magnet base



Radio MeSH configuration

Here is an example of the MeSH configuration
Each camera is a relay, directly or through another camera or relay, in order to avoid NLOS (Non Line of Site) installations.

Each link have a minimum 200 m range.