# Galaxy®

# GX-HT755A-AI-LED-28AD

5MP Fixed-focal Dome WizMind Network Camera

**Wiz Mind**

Launched by Galaxy Technology, Galaxy WizMind is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

## Series Overview

With starlight solution and deep learning algorithm, Galaxy WizMind 5 Series network camera has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improve the accuracy of video analysis. The series camera supports dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

## Functions

### Smart Dual Illuminators
Galaxy Smart Dual Illuminators technology adopts deep learning algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

### Face Detection
Galaxy Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

### People Counting
With deep learning algorithm, Galaxy People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/weekly/daily reports to meet your requirements.

· 5MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
· Outputs max. 5MP (2592 × 1944) @20 fps, and supports 2688×1520 (2688 × 1520) @25/30 fps
· H.265 codec, high compression rate, ultra-low bit rate
· Built-in high-efficiency warm light and IR LED, and Max. IR distance: 50 m
· ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
· Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
· Intelligent detection: Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human), abandoned object, missing object, loitering detection, people gathering, parking detection, heat map and face detection.
· Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
· Sound and light alarm linkage. When the alarm is triggered, the sound and light will be linked.
· Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card, built-in Mic and speaker.
· 12V DC/PoE power supply
· IP67, IK10 protection

| 5Mp | Smart Dual Illuminators | Face Detection | People counting | IK10 | IP67 |

### Siren And Light Active Deterrence
Galaxy siren and light active deterrence network camera supports the light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in multiple voices for selection, and supports customized voice importing.

### One-tap Disarming
Galaxy One-tap Disarming function, which is convenient and easy for operation, is the switch for event linkage. Customers can close and recover event linkage through mobile App, which meets multi-scenarios needs.

### Protection (IP67, IK10, wide voltage)
IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.
IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J).
Wide voltage: The camera allows ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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## Technical Specification

### Camera

| | |
|---|---|
| Image Sensor | 1/2.7"5Megapixel progressive CMOS |
| Max. Resolution | 2592 (H) × 1944 (V) |
| ROM | 128 M |
| RAM | 512 M |
| Scanning System | Progressive |
| Electronic Shutter Speed | Auto/Manual 1/3 s–1/100,000 s |
| Min. Illumination | 0.005 Lux |
| S/N Ratio | >56 dB |
| Illumination Distance | 2.8 mm: 30 m (98.4 ft)<br>3.6 mm: 30 m (98.4 ft)<br>6 mm: 50 m (164.0 ft) |
| Illuminator On/Off Control | Auto/Manual |
| Illuminator Number | 2 (IR LED); 1 (Warm light) |
| Pan/Tilt/Rotation Range | Pan: 0°–355°<br>Tilt: 0°–80°<br>Rotation: 0°–355° |

### Lens

| | |
|---|---|
| Lens Type | Fixed-focal |
| Mount Type | M12 |
| Focal Length | 2.8 mm; 3.6 mm; 6 mm |
| Max. Aperture | 2.8 mm: F1.6<br>3.6 mm: F1.6<br>6 mm: F1.6 |
| Field of View | 2.8 mm: Horizontal 98° × Vertical 71° × Diagonal 129°<br>3.6 mm: Horizontal 80° × Vertical 58° × Diagonal 107°<br>6 mm: Horizontal 50° × Vertical 37° × Diagonal 64° |
| Iris Type | Auto |
| Close Focus Distance | 2.8 mm: 0.9 m (3.0 ft)<br>3.6 mm: 1.6 m (5.2 ft)<br>6 mm: 3.2 m (10.5 ft) |

| DORI Distance | Lens | Detect | Observe | Recognize | Identify |
|---|---|---|---|---|---|
| | 2.8mm | 56.0 m (183.7 ft) | 22.4 m (73.5 ft) | 11.2 m (36.7 ft) | 5.6 m (18.4 ft) |
| | 3.6mm | 80.0 m (262.5 ft) | 32.0 m (105.0 ft) | 16.0 m (52.5 ft) | 8.0 m (26.2 ft) |
| | 6mm | 120.0 m (393.7 ft) | 48.0 m (157.5 ft) | 24.0 m (78.7 ft) | 12.0 m (39.4 ft) |

### Smart event

| | |
|---|---|
| IVS | Abandoned object; missing object |
| Heat Map | Yes |

### Professional, intelligent

| | |
|---|---|
| IVS (Perimeter Protection) | Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection |

| | |
|---|---|
| Face Detection | Face detection; track; optimization; snapshot; face enhancement; face exposure; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting |
| People Counting | Support the counting of enter number, leave number and pass numbe, and displaying and outputting yearly/monthly/daily reports.support people counting in area, |
| Intelligent Search | Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos. |

### Video

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|---|---|
| Video Compression | H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) |
| Smart Codec | Smart H265+/H264+ |
| Video Frame Rate | PAL<br>Main stream: 2592 × 1944 @1-20 fps/2688 × 1520 @1-25 fps<br>Sub stream: 704 × 576 @1-25 fps<br>Third stream: 1920 × 1080 @1-11 fps<br>NTSC<br>Main stream: 2592 × 1944 @1-20 fps/2688 × 1520 @1-30 fps<br>Sub stream: 704 × 576 @1-30 fps<br>Third stream: 1920 × 1080 @1 fps |
| Stream Capability | 3 streams |
| Resolution | 5M (2592 × 1944); 4M (2688 × 1520); 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480);  CIF  (352 × 288/352 × 240) |
| Bit Rate Control | CBR/VBR |
| Video Bit Rate | H.264: 32 kbps–8192 kbps<br>H.265: 12 kbps–8192 kbps |
| Day/Night | Auto (ICR)/Color/B/W |
| BLC | Yes |
| HLC | Yes |
| WDR | 120 dB |
| Scene Self-adaptation | Yes |
| White Balance | Auto/natural/street lamp/outdoor/manual/regional custom |
| Gain Control | Auto/Manual |
| Noise Reduction | 3D DNR |
| Motion Detection | OFF/ON (4 areas) |
| Region of Interest (RoI) | Yes (4 areas) |
| Smart Illumination | Yes |
| Defog | Yes |
| Image Rotation | 0°/90°/180°/270° |
| Mirror | Yes |
| Privacy Masking | 4 areas |

### Audio

| | |
|---|---|
| Built-in MIC | Yes |

| | |
|---|---|
| Audio Compression | PCM; G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G.722.1; G.729; G.723 |

### Alarm

| | |
|---|---|
| Alarm Event | No SD card; SD card full; SD card error; service life warning; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; defocus detection; external alarm; face detection; people counting in area; stay alarm; people counting; people No. exception detection; safety exception; light alarm; sound alarm (21 built-in sounds and custom voices importing) |

### Network

| | |
|---|---|
| Network | RJ-45 (10/100 Base-T) |
| SDK and API | Yes |
| Protocol | IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP |
| Interoperability | ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec |
| User/Host | 20 (Total bandwidth: 80 M) |
| Storage | Galaxy Cloud (only supported by Galaxy version); FTP; SFTP; Micro SD card (support max. 256 G); NAS |
| Browser | IE: IE8, IE9, IE11<br>Chrome<br>Firefox |
| Management Software | Smart PSS; DSS; DMSS |
| Mobile Phone | IOS; Android |

### Certification

| | |
|---|---|
| Certification | CE-LVD: EN62368-1<br>CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU<br>FCC: 47 CFR FCC Part 15, Subpart B<br>UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07 |

### Port

| | |
|---|---|
| Audio Input | 1 channel (RAC port) |
| Audio Output | 1 channel (RAC port) |
| Alarm Input | 1 channel in: 5mA 3V–5V DC |
| Alarm Output | 1 channel out: 300mA 12V DC |

### Power

| | |
|---|---|
| Power Supply | 12V DC/PoE |
| Power Consumption | <8.6W |

### Environment

| | |
|---|---|
| Operating Conditions | −40°C to +60°C (−40°F to +140°F)/Less than 95% RH |
| Strorage Conditions | −40°C to +60°C (−40°F to +140°F) |
| Protection Grade | IP67; IK10 |

### Structure

| | |
|---|---|
| Casing | Metal |

| | |
|---|---|
| Dimensions | 105 mm × Φ126 mm  (4.1" × Φ5.0") |
| Net Weight | 716.4 g (1.6 lb) |
| Gross Weight | 929.7 g (2.0 lb) |

## Ordering Information

| Type | Part Number | Description |
|---|---|---|
| 5MP Camera | DH-IPC-HDBW5541R1P-AS-PV | 5MP Fixed-focal Dome WizMind Network Camera, PAL |
| | DH-IPC-HDBW5541R1N-AS-PV | 5MP Fixed-focal Dome WizMind Network Camera, NTSC |
| Accessories (optional) | PFA137 | Junction Box |
| | PFA200W | Rain Shade |
| | PFB203W | Wall Mount |
| | PFA152-E | Pole Mount |
| | PFA109 | Mount Adapter |
| | PFB220C | Celling Mount |
| | PFM321D | 12V DC/1A Power Adapter |
| | LR1002-1ET/1EC | Single-port Long Reach Ethernet over Coax Extender |
| | PFM900-E | Integrated Mount Tester |
| | PFM114 | TLC SD Card |

## Accessories

### Optional:



PFA137
Junction Box



PFA200W
Rain Shade



PFB203W
Wall Mount



PFA152-E
Pole Mount



PFA109
Mount Adapter



PFB220C
Celling Mount



PFM321D
DC12V1A Power
Adapter



LR1002-1ET/1EC
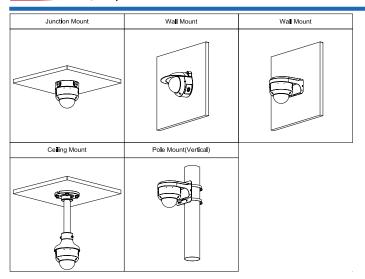Single-port long
reach ethernet over
coax extender



PFM900-E
Integrated Mount
tester



PFM114
TLC SD card

| Junction Mount | Wall Mount | Wall Mount |
|---|---|---|
| | | |
| Ceiling Mount | Pole Mount(Vertical) | |
| | | |

## Dimensions (mm/inch)

61.6 [2.43]

105.0 [4.13]

⌀126.0 [⌀4.96]

⌀4.5 [⌀0.18]

⌀110.0 [⌀4.33]

FRONT