# DL101

## Dual-Lens AI People Counting Camera




## PRODUCT OVERVIEW

The Dual-Lens AI People Counting Camera uses high-precision 3D imaging technology to count people in real time, with an accuracy of up to 99%. Its built-in AI algorithm identifies and collects data including the number of people entering, exiting, passing through, staying, and making U-turns, as well as gender and age groups (under 10, 10–16, 17–30, 31–45, 46–60, and over 60), generating richer customer profiles and enabling deeper data analysis. Employee badge recognition accurately filters out employee entries and exits to prevent data interference. The terminal can be widely used in shopping malls, retail stores, public buses, scenic spots, libraries, museums, restaurants, factories, supermarkets, industrial parks, buildings, restrooms, and other locations.

## PRODUCT FEATURES

- **Performance**: An intelligent dual-core architecture delivers a 20% improvement in energy efficiency and supports synchronous multimodal data processing.
- **Computing Power**: A 2 TOPS heterogeneous computing engine enables real-time AI inference with millisecond-level response.
- **Storage**: 1GB LPDDR4 intelligent caching technology improves data throughput efficiency by 50%.
- **Built-in AI Algorithms**: Supports age and gender recognition, generating richer crowd profiles and enabling deeper data analysis.
- **REID De-duplication**: A deep learning model based on human body features removes duplicate counts when the same person enters, exits, or stays multiple times within a single day.
- **Real-time Accurate Counting**: Accurately identifies human bodies in real time with an accuracy of up to 99%,

and accurately filters out children and other large objects.

· **Strong Environmental Adaptability**: Adapts to outdoor scenes with strong sunlight, entrances with decorative lighting, and dim or dark environments.

· **Auto Zoom**: Supports software-based auto zoom; the device supports an installation height range of 1.9 - 6m and adapts to different installation environments.

· **Wide Coverage**: Covers a range of 1.1–8.4 m, easily adapting to various venues.

· **Timely Data Upload**: The time for uploading data to the server is customizable, supporting real-time, 1-minute, 5-minute, 30-minute intervals, etc.

· **Multi-protocol Support**: The device transmits data via HTTP POST/HTTPS POST/FTP/SFTP/Modbus-RTU/MQTT protocols, and supports secondary development for data integration.

· **Rich Open Interfaces**: The device provides a rich set of local application interfaces and RS-485 extension support, enabling developers to integrate and develop flexibly and quickly.

· **Smart Networked Device**: Supports local computing without a local server, flash offline storage, breakpoint resume (data retransmission after network disconnection), PoE power supply, and wired/wireless connectivity.

· **Privacy Compliance**: Complies with privacy protection regulations; no facial or other attribute information is extracted, ensuring privacy.

· **Scene Modes**: Wheelchair mode, capacity limit mode, child mode, access control mode, data display mode, lane mode, and standalone mode.

| MODEL NUMBER | DL101 |
|---|---|
| **Camera Specifications** | |
| Image Sensor | 1/3" Progressive Scan CMOS |
| Image Resolution | 1920*1080 |
| Pixel Size | 2.7um*2.7um |
| Image Output Format | RAW RGB |
| Lens Focal Length | 1 mm (Fisheye Lens) |
| Angle of View | Horizontal 140°, Vertical 120° |
| Frame Rate | 25fps |
| **Functional Specifications** | |
| Counting Accuracy | Up to 99% |
| Height Range | 1.9~6.0m |
| Coverage Range | 1.1~8.4m |
| Height Filtering | 0.5~1.2m |
| **AI Function Specifications** | |
| Human Attributes | Gender 95% / Age 80% / Staff Recognition 80% / Duplicate Removal 80% |
| Height Range | For AI functions, recommended mounting height 2.5–4.0m |
| **Technical Specifications** | |
| Power Rating | 3.2~3.6W |
| Addressing | Static IP / DHCP |

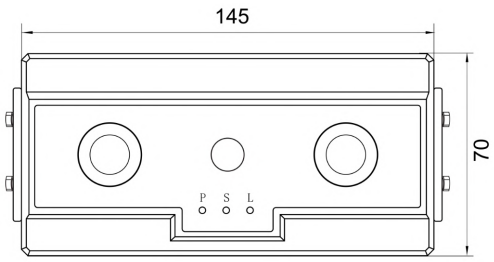
| | |
|---|---|
| Offline Cache | 90 days |
| Expansion Interface / Signal | RS-485 interface × 1 / 6V–24V (IO input × 1, IO output × 1) |
| Network | Cat5e Cable / 2.4 GHz Wi-Fi |
| Power Supply Mode | POE (802.3af/at) / DC-(9V-36V) |
| Data Upload Method | HTTP POST/HTTPS POST/FTP/SFTP/Modbus-RTU/ MQTT |
| **Operating Environment** | |
| IP Rating | IP66 |
| Operating Temperature | -10°C ~ 50°C |
| Operating Humidity | 20% ~ 80% |
| Product Dimensions(mm) | 145 x 70 x 40 |
| Weight (Kg) | 0.32 |
| Mounting Method | Ceiling-Mounted / Suspended / Recessed Mount |
| **Appearance View** | |

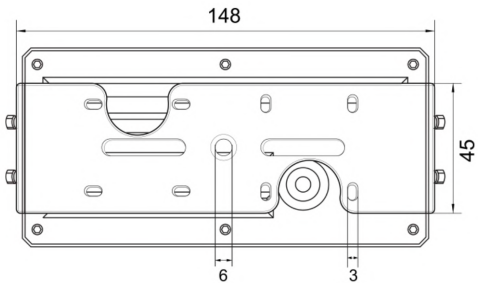



Front



Back




| Recommended Mounting Height (Ceiling-Mounted / Suspended / Recessed Mount) | |
|---|---|
| Mounting Height (m) | Coverage Width (m) |
| 1.9 | 1.1 |
| 2.5 | 3.7 |
| 3.0 | 5.2 |
| 3.5 | 6.4 |
| 4.0 | 7.3 |
| 4.5 | 8.0 |
| 5-6 | 8.4 |