

# DG05-PC52

## People Counter



### Product Overview

DG05-PC52 is an integrated AI product for tilted view passenger traffic analysis. It is equipped with a quad-core ARM SoC featuring an embedded independent 2Tops NPU and a 5MP starlight image sensor. It supports 3-Frame WDR and can accurately monitor passenger flows up to 10 meters wide. In addition to standard passenger traffic counting, the device also utilizes advanced human Re-ID technology with high accuracy for precise passenger analysis. Prioritizing privacy and compliance, the device supports fully offline structured analysis with all detection and recognition algorithms working in offline mode and no biometric identifiers like facial features will be collected. The device not only has powerful performance, but also compact and beautiful in design with easy installation, it is suitable for various commercial settings, including large supermarkets and brand chain stores.

### Key Feature



Tiltable view, embedded installation, without affecting the design style of the installation site.



Supports real-time video compression and streaming protocols for H.264/H.265 up to 5 million pixels, such as ONVIF, RTSP/RTP/RTCP.



Supports full passenger flow counting with industry-leading accuracy ( $\geq 95\%$  in standard scenarios).



Provide various passenger flow counting functions, including entry/exit monitoring, transfer analysis, attention and heat map analysis, body capture, feature extraction, and attribute analysis.

## Specifications

Model	DG05-PC52
Processor	Quad-core ARM Cortex-A7 @1.5GHz + RISC-V MCU + NPU @2Tops
Sensor	1/2.8" 5MP starlight CMOS sensor, capable of a minimum illumination of 0.01 Lux and supporting 3-Frame WDR.
RAM	1GB
ROM	8GB
Lens Focal Length	1.1mm, 2.1mm, 2.8mm, 3.6mm, 6mm optional
Video Encoding	Support dual H.264/H.265 real-time video compression, up to 2560x1920@25fps + 1280x720@25fps
Video Streaming	ONVIF/RTSP/RTP/RTCP streaming media protocols
Install Height	2.0m to 6m
Coverage Width	Maximum effective counting range of 10m x 12m
Network Interface	10/100Mbps adaptive RJ45 network interface
Power Supply	DC 12V/0.4A, POE 802.3af
Algorithms	Pedestrian detection, pedestrian tracking, optimal body selection, person re-identification, and body attribute analysis.
Business Capability	Enter/exit monitoring, pass-by analytics, attention and heat map analysis, body capture, feature extraction, and attribute analysis.
Accuracy	≥95% in standard scenarios
Product Dimensions	Embedded part: diameter 54mm, height 77mm Exposed part: diameter 68mm, height 22mm
Package Dimensions	200×160×90mm
Net Weight	0.23kg
Gross Weight	0.375kg
Operating Temperature	-25°C to 70°C
Operating Humidity	<93% RH