

DG05-PC5



Product Overview

DG05-PC5 is an embedded integrated product for passenger flow statistics. DG05-PC5 adopts Sony 500W starlight sensor, supports multiple frame HDR and 2.5 times video definition, making traditional passenger flow analysis much easier. With an NPU-embedded quad core ARM SOC, the inference performance of DG05-PC5 can be up to 2Tops. The solution installs devices on the top of the ceiling and innovatively, use only pedestrian body images captured from vertical perspective to do Re-ID, but also achieving industry-leading accuracy. Since no face images can be captured for analysis under the specific installation method, it defends privacy of personal information from the root. Furthermore, to avoid latent security issues, the entire analysis pipeline is based on offline processing, such as built-in offline pedestrian capture, quality analysis, body feature extraction, etc. Being accurate and compliant, it is very suitable for a variety of offline commercial application scenarios such as shopping malls, large supermarkets and brand chains.

Key Feature



- Embedded installation does not affect the design style of the installation site.



- Quad core ARM Cortex-A7 SOC, with built-in AI coprocessor, can provide up to 2.0 Tops.



- Supports full passenger flow counting with industry-leading accuracy ($\geq 98\%$ in standard scenarios).



- Support various passenger flow statistics services, including inbound and outbound passenger flow statistics, past passenger flow statistics, regional attention analysis, heat map analysis, and human image collection.

Specifications

Model	DG05-PC5
Processor	Quad-core ARM Cortex-A7@1.5GHz + RISC-V MCU + NPU, up to 2.0 Tops
Sensor	1/2.8" 500W Sony Starlight CMOS with a minimum illumination of 0.01Lux
RAM	1GB
ROM	8GB
Lens Focal Length	1.1mm, 2.1mm, 2.8mm, 3.6mm optional
Video Encoding	Support H.264/H.265 real-time dual-stream video compression, up to 2560x1920@25fps + 1280x720@25fps
Video Streaming	ONVIF/RTSP/RTP/RTCP streaming media protocols
Install Height	2.2m to 14m
Coverage Width	≤6m
Network Interface	10/100Mbps adaptive RJ45 network interface
Power Supply	POE 802.3af
Algorithms	Multiple AI algorithms, such as pedestrian detection, tracking, capture, identification, etc.
Business Capability	In and out passenger flow count, store passenger flow count, regional attention analysis, heat map analysis, person re-identification, etc.
Accuracy	Under the standard scenarios, the accuracy of passenger flow count is ≥98%
Product Dimensions	Embedded part: diameter 54 mm, height 77 mm Exposed part: diameter 68mm, height 8.6mm
Package Dimensions	198×162×92mm
Net Weight	0.235kg
Gross Weight	0.38kg
Operating Temperature	-20°C to 70°C
Operating Humidity	<93% RH