

## VIDEO TELEMATICS

# Passenger Counter

It is a professional vehicle passenger flow counter with built-in artificial intelligence algorithms

The **Passenger Counter** can accurately determine the direction of passenger entry and exist and precisely count the number of passengers getting on and off the bus. At the same time, the passenger flow counter can synchronise the number of passengers to the vehicle host through the network interface, and uploaded by the vehicle host to the platform, to achieve the analysis and statistics of passenger flow data.

## Advantages

- Supports 1920\*1080 @ 30fps resolution
- Supports wide dynamic, to meet the requirements of a variety of vehicle operating environment on the image effect
- Supports automatic exposure response algorithm, automatic white balance algorithm, automatic noise reduction
- Supports deep-learning-based passenger counting function
- Supports deep-learning-based automatic recognition of vehicle door opening and closing function.
- Supports adult and child recognition function
- Supports wheelchair/bicycle/pram recognition function (optional)
- Supports a variety of mounting brackets to adapt to the installation of different models.
- Conforms to the seismic structure design of vehicles



# Technical Specifications

## Basic Parameters

Sensor type	1/2.8 " 2M pixel CMOS
SNR	≥50db
Minimum illumination	Black and white: 0Lux (IR LED ON)
Lens	M12 type 2.7mm lens
Viewing angle	FOV:120° VFOV:62.5°
Electronic shutter	1/60 second-1/5000 second
Wide dynamic range	2F WDR dynamic range ≥80db
Infrared distance IR	3m

## Audio and Video Encoding

Video compression standards	H.264 (default) & H.265
Compressed output bit rate	512Kbps-10Mbps
Image resolution	Main stream: 1080p @ 25 fps Supports 30 frames Sub-stream: CIF /VGA/ D1 Default VGA
CBR/VBR	Supported (default VBR)
Audio input	Not supported

## Image

Image maximum size	1920×1080
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## Network

Network interface	10M/100M adaptive Ethernet network port (6-pin aviation connector/M12 D-code)
Client preview	Built-in WEB Server, supports IE browser access

## ● Technical Specifications (cont'd)

### Interface

RS485	1 Channel
USB	Supported
Sensor input	4 Channels

### Installation

Installation method	Supports Built-in installation, Suspended-ceiling installation, and Side installation
Dimensions (including bracket)	Built-in:188.05mm*67.04mm*33mm Suspended-ceiling:179.17mm*55.88mm*42.5mm Side:178.96mm*54.95mm*45.35mm

### Power Supply

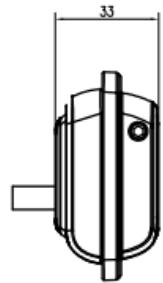
Power input	PON (DC12V), supported voltage range: 9 ~16V POE (DC 48 V), supported voltage range: 37 ~ 57 V
Power consumption	PON < 3 W (without SLAVE) PON <5W (with SLAVE) POE < 3.8 W (without SLAVE) POE < 5.8 W (with SLAVE)

### Working Environment

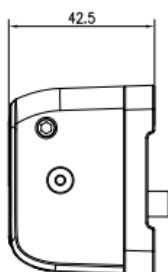
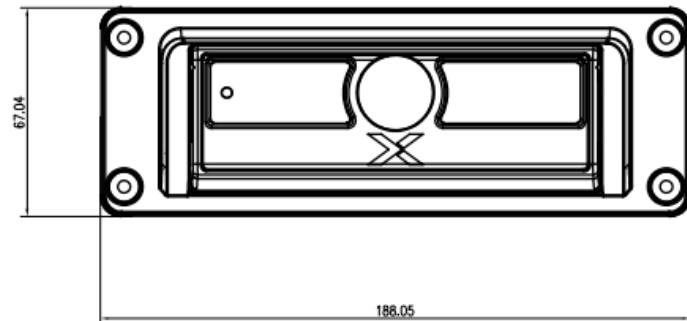
Operating temperature	-30°C-+70°C
Storage temperature	-40°C-+85°C
Humidity	0% - 90%

## ● Technical Specifications (cont'd)

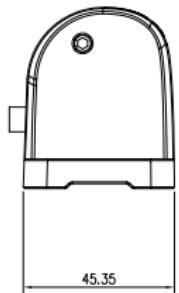
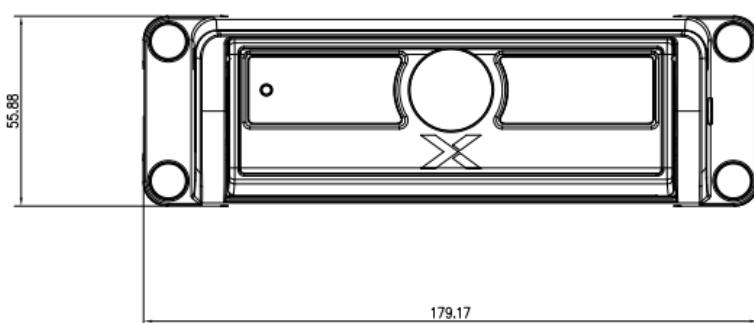
### Product Size



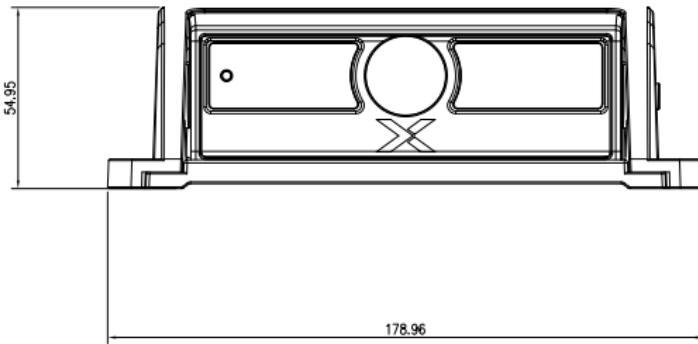
Built-in installation method (mm)



Suspended-ceiling installation method ( mm)

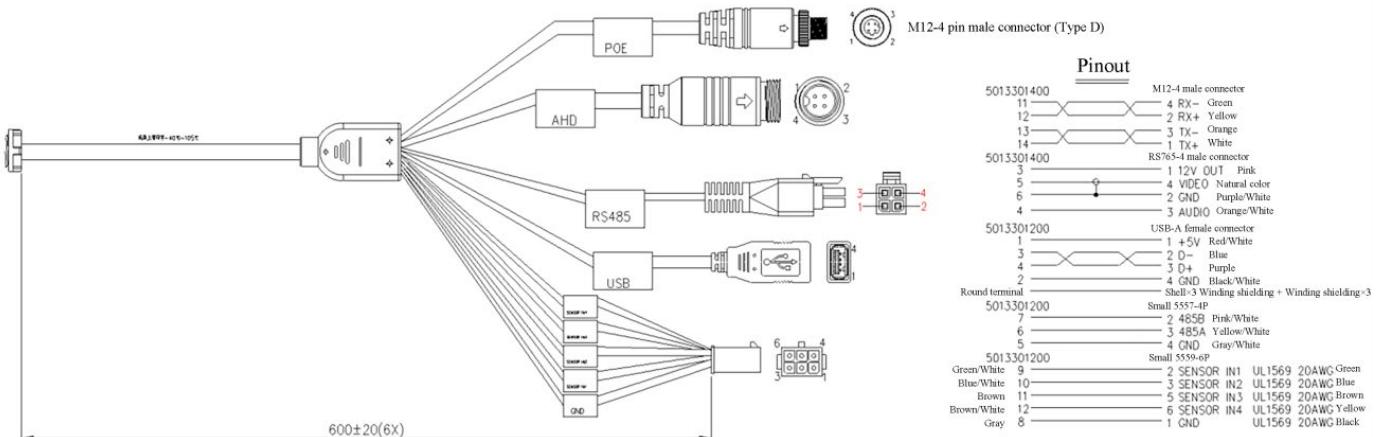
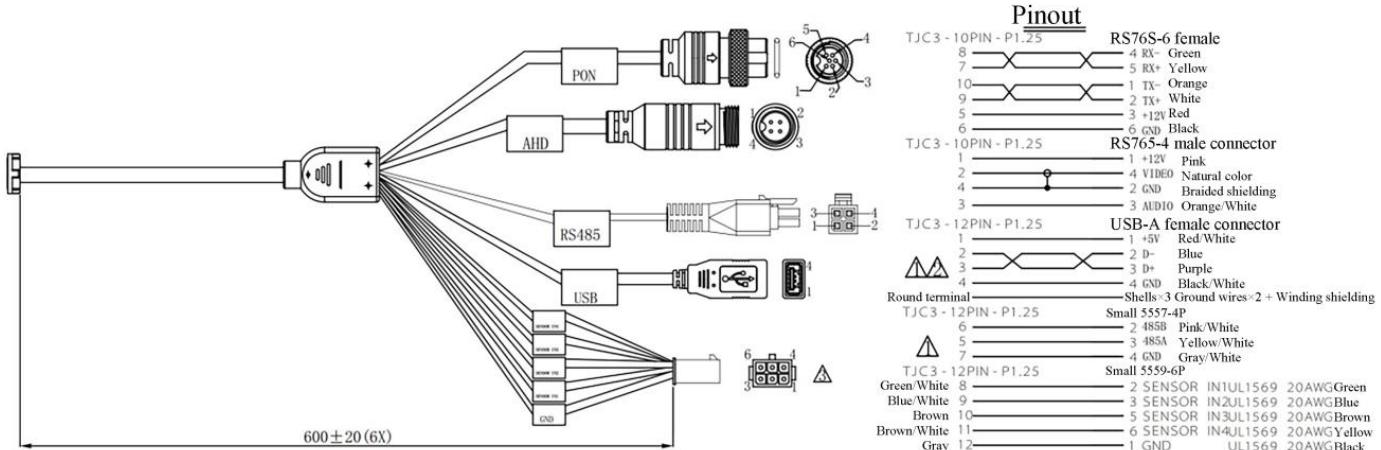


Side installation method (mm)



# ● Technical Specifications (cont'd)

## Cable Interface Definition



Powerfleet (Nasdaq: PWFL; JSE: PWR; TASE: PWFL) is a global leader in the artificial intelligence of things (AIoT) software-as-a-service (SaaS) mobile asset industry. With more than 30 years of experience, Powerfleet unifies business operations through the ingestion, harmonisation, and integration of data, irrespective of source, and delivers actionable insights to help companies save lives, time, and money. Powerfleet's ethos transcends our data ecosystem and commitment to innovation; our people-centric approach empowers our customers to realise impactful and sustained business improvement. The company is headquartered in New Jersey, United States, with offices around the globe. Explore more at [www.powerfleet.com](http://www.powerfleet.com).