



P3D Specification



(V3.0)

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Responsible Department: Public Transport BU
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1. Product Description

P3D is a professional vehicle passenger flow counter with built-in artificial intelligence algorithms. It 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, so as to achieve the analysis and statistics of passenger flow data.

2. Product Outstanding Advantages

- Support 1920*1080 @ 30fps resolution
- Supports wide dynamic, to meet the requirements of a variety of vehicle operating environments on image effects
- Built-in white complementary light, supports 24/7 colour mode work
- Support automatic exposure response algorithm, automatic white balance algorithm, automatic noise reduction
- Supports deep-learning-based passenger counting function
- Supports OD function of passenger flow based on deep learning.
- Supports adult and child recognition function
- Supports wheelchair/bicycle/pram recognition.
- Supports deep-learning-based automatic recognition of vehicle opening and closing door function
- Supports a variety of mounting brackets to adapt to the installation of different models.
- Conforms to vehicle vibration-resistant structure design

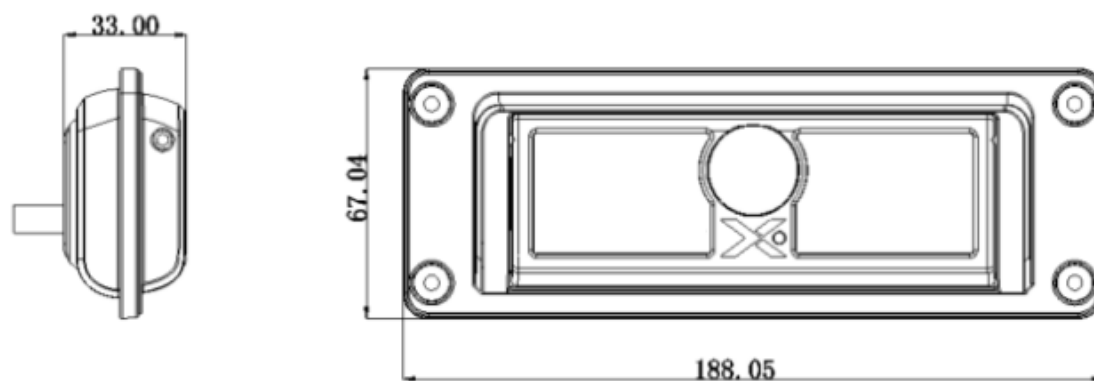
3. Specifications

Function	Technical items	Technical indicators
Basic parameters	Sensor type	1/2.8" 2M pixel CMOS
	SNR	$\geq 50\text{db}$
	Minimum illumination	0Lux (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 $\geq 80\text{db}$
	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	1920x1080
Network	Network interface	10M/100M adaptive Ethernet network port (6-pin aviation connector)
	Client	Built-in WEB Server, supports IE browser access

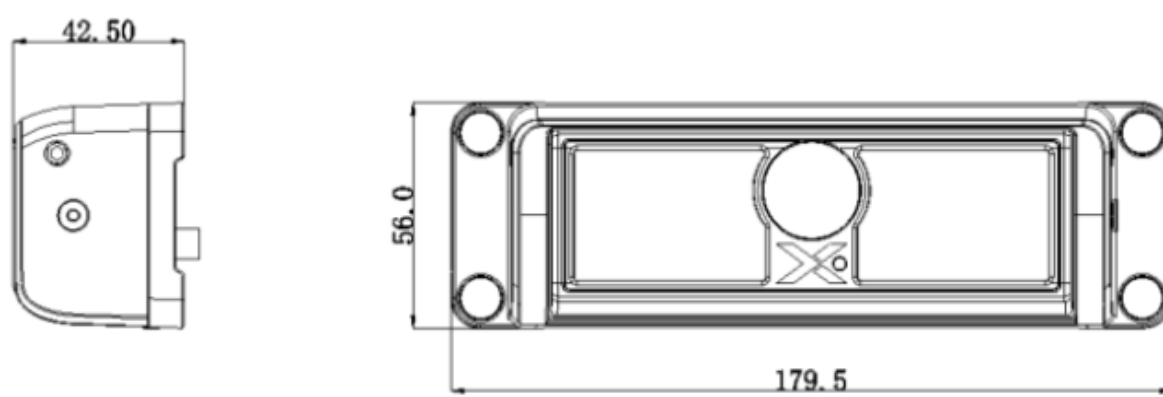
	preview	
Interface	RS485	1 Channel
	USB	Supported
	Sensor input	4 Channels
Installation	Installation method	Supports Built-in installation, Suspended-ceiling installation, and Side installation
	Dimensions (including bracket)	Built-in: 188.05mm*67.04mm*33mm Suspended-ceiling: 179.17mm*55.88mm*42.5mm 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 POE < 3.8 W
Working Environment	Operating temperature	-30℃~+70℃
	Storage temperature	-40℃~+85℃
	Humidity	0% - 90%

4. Product Size

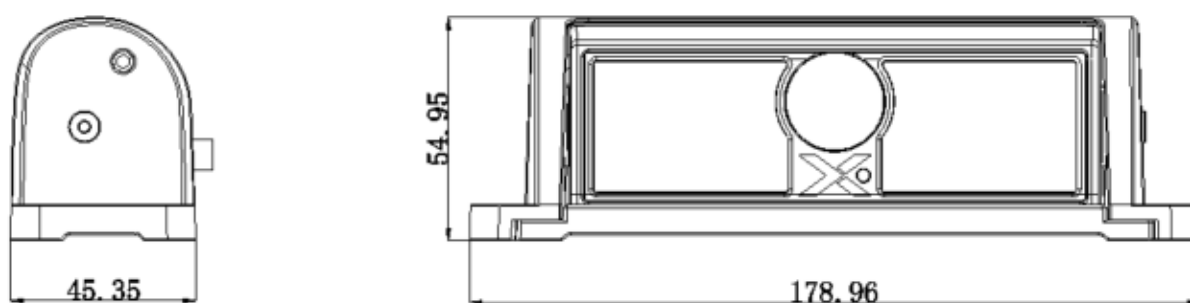
Built-in installation method (mm)



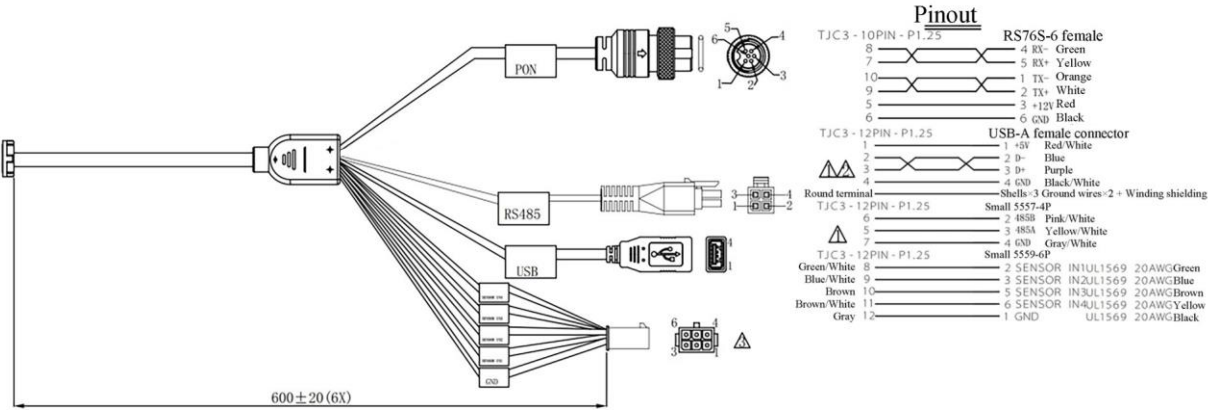
Suspended-ceiling installation method (mm)



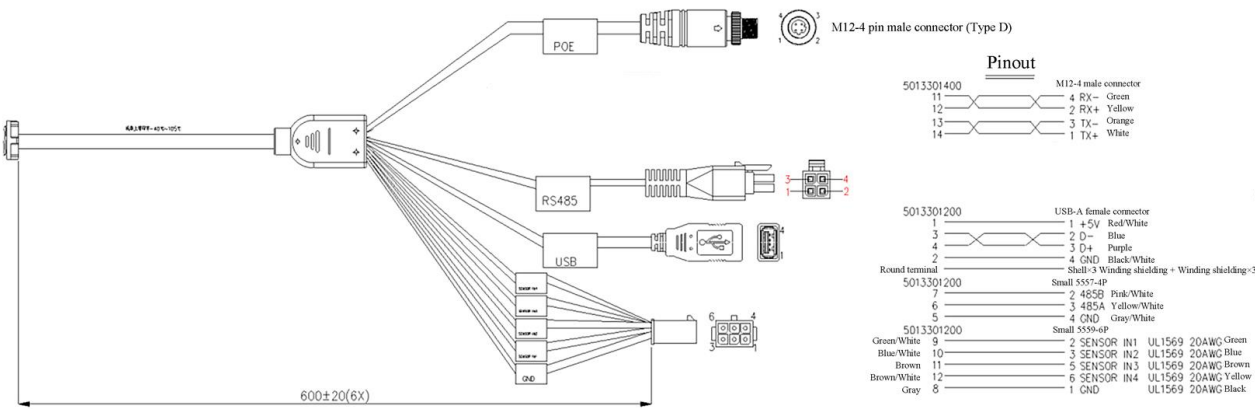
Side installation method (mm)



Cable Interface Definition



P3D V3.0 PON



P3D V3.0 POE