



FT-AIBSD-SC11 • Accessories Technical Datasheet



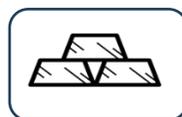
FT-AIBSD-SC11 Vehicle AI Camera



1080P full-HD



IP69K rating



Metal case



170° Wide range



Fireproof box



External Alarm
Volume



CE UK CA PTCRB

Product Summary

The FT-AIBSD-SC11 offers the very latest technology to help drivers detect vulnerable road users including pedestrians, cyclists/ motorcyclists and people on scooters. The camera adopts deep learning technology, which can realize intelligent and high-precision pedestrian and vehicle detection at the front, side and rear of the vehicle in real time. Visual and audio alerts can be configured to warn drivers of potential risks or collisions.

This camera is an essential driving aid and is suitable for larger commercial vehicles such as HGVs, buses, vans, plant and other construction equipment. This all-in-one unit can also replace a side scan system and is both TFL-approved and DVS-compliant.

Key Features:

- Metal case
- Helps protect against collisions with vulnerable road users, pedestrians and other vehicles
- Can be connected to Vision Track's IoT platform [Autonomise.ai](#)

- Offers audible warning and visual alert on in-cab monitor (optional monitor required)
- 1080P full-HD camera output
- Wide horizontal 170° viewing angle
- Connection with storage units such as a fireproof box for disaster recovery backup
- Water-resistant and dustproof rating: IP69K

Item	Parameter	Description
Camera	Resolution / Frame	Full HD 1920x1080 / 25 fps or 1920x1080 /30 fps
	Focal Length / Viewing Angle (H)	1.45mm/170°
Video	Video Output	AHD (1.0Vp-p, 75Ohm)
	Resolution / Frame	1920x1080 / 25fps or 1920x1080 / 30fps
Audio	Audio Output	Warning acoustic signal output
Interface	Communication Interface	USB 2.0 (For external Wi-Fi module)
Power	Input Power	DC 10~32V
	Power Dissipation (12V IN)	320mA
Cable	Cable Length	0.5m
Power	Operation Temperature	-20~70°C
	Storage Temp	-40~85°C
Protection	Waterproof Rating	IP69K
Appearance	Dimensions (mm)	139.7 x 63.2 x 53.5mm
	Weight (g)	386g
	Casing Color	Black

Technical Specification

Volume

Set the alarm volume level in range 0-5. The default level is 5 (max.). Level 0 means no sound.

External Alarm Volume

Set audible and visual alarm volume. The default value is 8.

Audio Type

Switch alarm sound type. The default sounds 'Ding'. There are 6 different tone options.

PD Model

Set the algorithm model. Person: only detect pedestrians; Person & Car: detect both vehicles and pedestrians.

PD Sensitivity

The higher, falser detection; the lower, the more missing detection.

OSD Font Size

Close 'Confidence' and adjust the font size.

PD Alarm In

Pedestrian detection trigger input. When enabled, the pedestrian detection algorithm will be enabled only when the multi-functional CAN wire or device with alarm input is connected, and the alarm in provides 12V voltage.

PD Test Mode

After turning on, when a pedestrian is detected outside a specific area, it will display within a blue box. The 'Confidence' of the detected pedestrian will display.

Person Rectangle

Select whether to display pedestrian rectangle after detecting pedestrians.

Zone Interval

Set the lowest pedestrian interval between each ROI area alarm, the alarm does not alarm during the interval.

Alarm Out Duration

Set the duration of trigger line output high level after pedestrian is detected in the detection area, which is 2 seconds by default. That is, after the pedestrian

is detected, the trigger line outputs a high level. When no pedestrian is detected again, the high-level lasts for 2 seconds and then drops to a low level.

Alarm Out Switch

Select whether the trigger line outputs high level after the pedestrian is detected in the Red/Yellow/Green corresponding detection area.

Detection Zone Switch

Switches control if the detection areas corresponding to Red/Yellow/Green are displayed. When you click to turn off, the detection area will not be displayed and pedestrian detection will not be performed. It takes effect immediately once it has set.

Detection Zone Style

Fill background colour of Detection Zone and select colour of Box Line. Or select Hide to disable background colour display.

Physical Characteristics

Dimensions (mm)	295 mm × 222 mm × 89 mm (With the bracket and rear shield)
Weight (kg)	3.20 (with hard disks)

Work Speed

After the external GPS is connected, the algorithm will be activated when the driving speed is lower than the working speed.