

# Smarter AI Dashcam Pro

Connected & AI-driven, Multi-camera,  
Vehicle Dashcam for Precision AI Video  
Telematics.

## DATASHEET



VEHICLE → 99 %



VEHICLE → 99 %



TRAFFIC SIGN 90 %





## Overview

The Smarter AI Dashcam Pro offers connected, AI-driven video telematics and telematics solutions tailored for fleets, all packed in a strongly tamper-proof and compact design. This cutting-edge device is specifically designed to meet the needs of demanding fleets, accommodating up to 5 cameras active simultaneously and incorporating a powerful next-generation AI Accelerator.

With the Smarter AI Dashcam Pro, deploying edge AI Models for your specific use case becomes effortless, including the option to use your own custom models. These AI Models can be deployed simply and securely Over-the-Air (OTA) using AI Containers™.

Seamless integration with your vehicle subsystems, such as CAN, is made possible through the Smarter AI Dashcam Pro's interfaces, ensuring a smooth and efficient connectivity setup.

Additionally, driver authentication is made easy with the built-in RFID/NFC card reader, providing a simple and secure way to identify authorized drivers.

## Key Features

- Designed for fleets
- Tamper proof
- Driver authentication
- Vehicle telematics
- Up to 1TB of local storage
- Deploy Edge AI Models as simply as an app on a phone (DMS, ADAS)
- Up to 5 cameras
- Configurable event triggers
- Easy integration through APIs
- Live & recorded audio & video
- Weatherproof camera support
- Next-generation AI Accelerator
- Compatible with Smarter AI Software Services
- AES-256 encryption in transit and at rest



## Specifications

<b>Video Codecs</b>	h.264, h.265 (upcoming)		
<b>Cameras</b>	Up to 5 Cameras Simultaneously		
	Road	Up to 1080p30, Horizontal Field of View (FOV) 116°	
	Cabin	Up to 1080p30, Horizontal FOV 116°	
		IR Illumination 940nm	
	Internal Extension	Up to 1 Internal Extension Camera per System	
	Extension	Smarter AI Dashcam Pro - Weatherproof Cam Small	
		Smarter AI Dashcam Pro - Weatherproof Cam Large	
Up to 4 External Extension Camera per System			
<b>Cellular</b>	LTE Cat.4 (3G/2G Fallback, Region Dependand)		
	EMEA, SA	Frequency Band	LTE FDD Band 1/3/7/8/20/28A
			LTE TDD Band 38/40/41
			WCDMA Band 1/8
			GSM Band 3/8
	NA	Frequency Band	LTE FDD Band 2/4/5/12/13/14/66/71
	ANZ, LATAM	Frequency Band	FDD Band 1/2/3/4/5/7/8/28
			LTE TDD Band 40
			WCDMA Band 1/2/4/5/8
			GSM Band 2/3/5/8
	Cellular Certifications	PTCRB	
Carrier Certifications	AT&T, Verizon & more pending		
FirstNet® Certification	Pending		
<b>SIM Card</b>	NanoSim Slot (4FF)	Customer Cellular Data Plans	
	Embedded eSIM	Smarter AI Cellular Data Plans	



<b>Geography</b>	ANZ	Australia & New Zealand		
	EMEA	Europe, the Middle East & Africa		
	LATAM	Latin America		
	NA	Canada & USA		
	SA	United Kingdom, South Africa, and South Asia		
<b>Wi-Fi</b>	Wi-Fi 5 (802.11ac)			
<b>Bluetooth</b>	Bluetooth 5.0 with BLE			
<b>Power Inputs</b>	7 to 36 VDC			
<b>Power Management</b>	Ignition Sensor (ACC)			
	10 F Supercapacitor			
<b>Power Consumption</b>	Nominal	6 W (0.5 A at 12 V / 0.25 A at 24 V)		
	Parking Mode	Awakening	60 mW (5 mA at 12 V / 2.5 mA at 24 V)	
			Impact Detection	
			LTE Awakening	
			ACC/Ignition	
		Vehicle Motion		
<b>Compute</b>	CPU	8 cores + Hexagon AI Accelerator		
<b>Positioning</b>	Multi-constellation GNSS			
<b>Memory Card</b>	Dual micro SDXC up to 2 x 512GB.			
<b>Sensors</b>	3-axis G-sensor			
	Gyroscope			
	Thermometer			
<b>Adjustment</b>	Up & Down with locking mechanism			
<b>Buttons</b>	Driver-accessible programmable emergency button.			
	No other driver-accessible buttons (on/off/reset, etc.)			
	Optional	Panic Button		

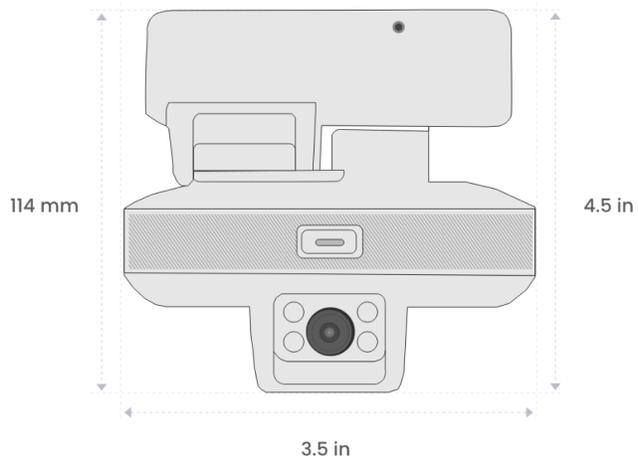
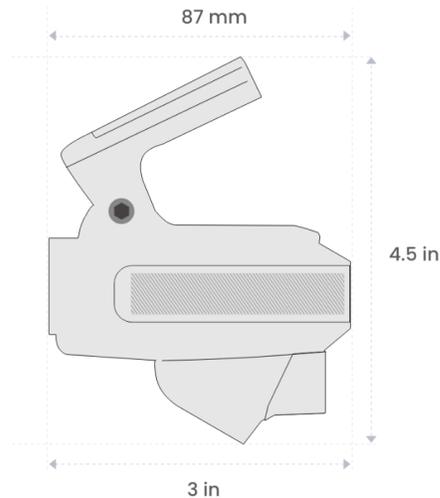
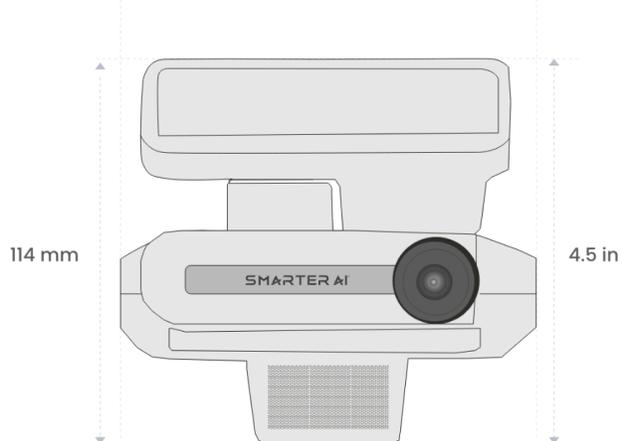
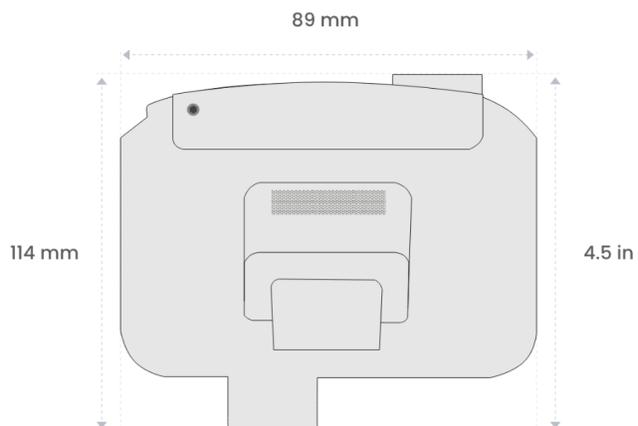


<b>Card Reader</b>	NFC: MiFare, FeliCA	
	RFID (HF): ISO14443A&B, ISO15693	
<b>Microphone</b>	Yes, with noise cancellation	
<b>Loudspeaker</b>	Yes	
<b>Vehicle Interfaces</b>	Optional: OBD CAN Cable	J1962 & J1939 (Multi-channel CAN)
	3 x Digital Inputs (5V) & 1 x Digital Output (3.3V)	
	RS 232 Tx/Rx	
<b>Supported Powertrains</b>	Internal Combustion & Electric Vehicles	
<b>IP Rating</b>	IP40	
<b>Dimensions</b>	124 x 88.6 x 101 mm (4.88 x 3.48 x 3.97")	
<b>Weight</b>	340g (12oz)	
<b>Temperature Rating</b>	Operating	-20°C to +70°C (-4°F to 158°F)
	Storage	-30°C to +85°C (-22°F to 185°F)
<b>Data Security</b>	AES-256 encryption in transit and at rest	
<b>Tamper Protection</b>	Cable, SD & SIM card cover with tamper resistant lock screws and tamper switch.	
	Tamper resistant lock screws for cameras position.	
<b>Warranty</b>	Subject to Smarter AI Terms of Sale.	
<b>Standards</b>	CE, CB, FCC/IC, UKCA, RCM, BQB, ROHS, WEEE	



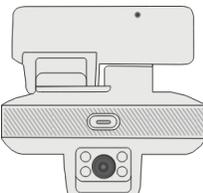
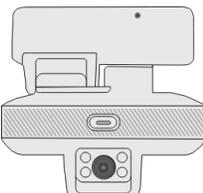
## Box Content

- Smarter AI Dashcam Pro
- Installation Guide
- Vehicle Cable
- Alcohol Wipe
- M2 hex key wrench
- Truck Cable Cap
- 128 GB Automotive Grade micro SD Card





## Product Variants

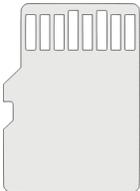
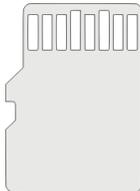
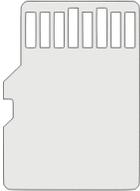
<p><b>Smarter AI Dashcam Pro ANZ</b> SKU SAI-DC-PRO-ANZ</p> <p>Notes For Australia &amp; New Zealand Right-Hand Drive</p>		<p><b>Smarter AI Dashcam Pro EMEA</b> SKU SAI-DC-PRO-EMEA</p> <p>Notes For Europe, the Middle East &amp; Africa Left-Hand Drive</p>	
<p><b>Smarter AI Dashcam Pro LATAM</b> SKU SAI-DC-PRO-LATAM</p> <p>Notes For Latin America Left-Hand Drive</p>		<p><b>Smarter AI Dashcam Pro NA</b> SKU SAI-DC-PRO-NA</p> <p>Notes For Canada, USA &amp; transit in Mexico Left-Hand Drive</p>	
<p><b>Smarter AI Dashcam Pro SA</b> SKU SAI-DC-PRO-SA</p> <p>Notes For South Africa, South Asia &amp; UK Right-Hand Drive</p>			

## Cables

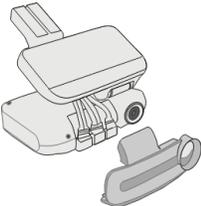
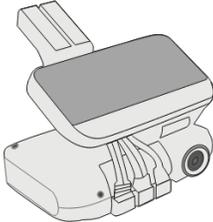
<p><b>Vehicle Cable</b> SKU SAI-DC-PRO-CBL-VCL</p> <p>Notes Power your Dashcam from the vehicle fuse box. This cable is ignition (ACC) aware.</p>		<p><b>OBD Power Cable</b> SKU SAI-DC-PRO-CBL-OBD-P</p> <p>Notes IPower your Dashcam from the vehicle OBD port.</p>	
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## Storage

<p><b>128GB SD Card - (10 pack)</b> <b>SKU SAI-SD-128</b></p> <p>Notes Automotive grade and high endurance Micro SD card.</p>		<p><b>256GB SD Card - (10 pack)</b> <b>SKU SAI-SD-256</b></p> <p>Notes Automotive grade and high endurance Micro SD card.</p>	
<p><b>512GB SD Card - (10 pack)</b> <b>SKU SAI-SD-512</b></p> <p>Notes Automotive grade and high endurance Micro SD card.</p>			

## Spare Parts

<p><b>Spare I/O Cover - (10 pack)</b> <b>SKU SAI-DC-PRO-CVR</b></p> <p>Notes Spare tamper-proof cover for cable connectors, SIM, and SD cards.</p>		<p><b>Spare Mounting Kit - (10 pack)</b> <b>SKU SAI-DC-PRO-MNT</b></p> <p>Notes Spare Mounting Kit for windshield mounting.</p>	
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## Smarter AI Dashcam Pro - Weatherproof Extension Cameras - Specifications

Weatherproof Extension Cameras complement the Smarter AI Dashcam Pro and support harsh, outside-of-the-vehicle, environments with its IP69K rating. With the capacity to support up to 4 Weatherproof Extension Cameras, this system provides optimal vehicle coverage.

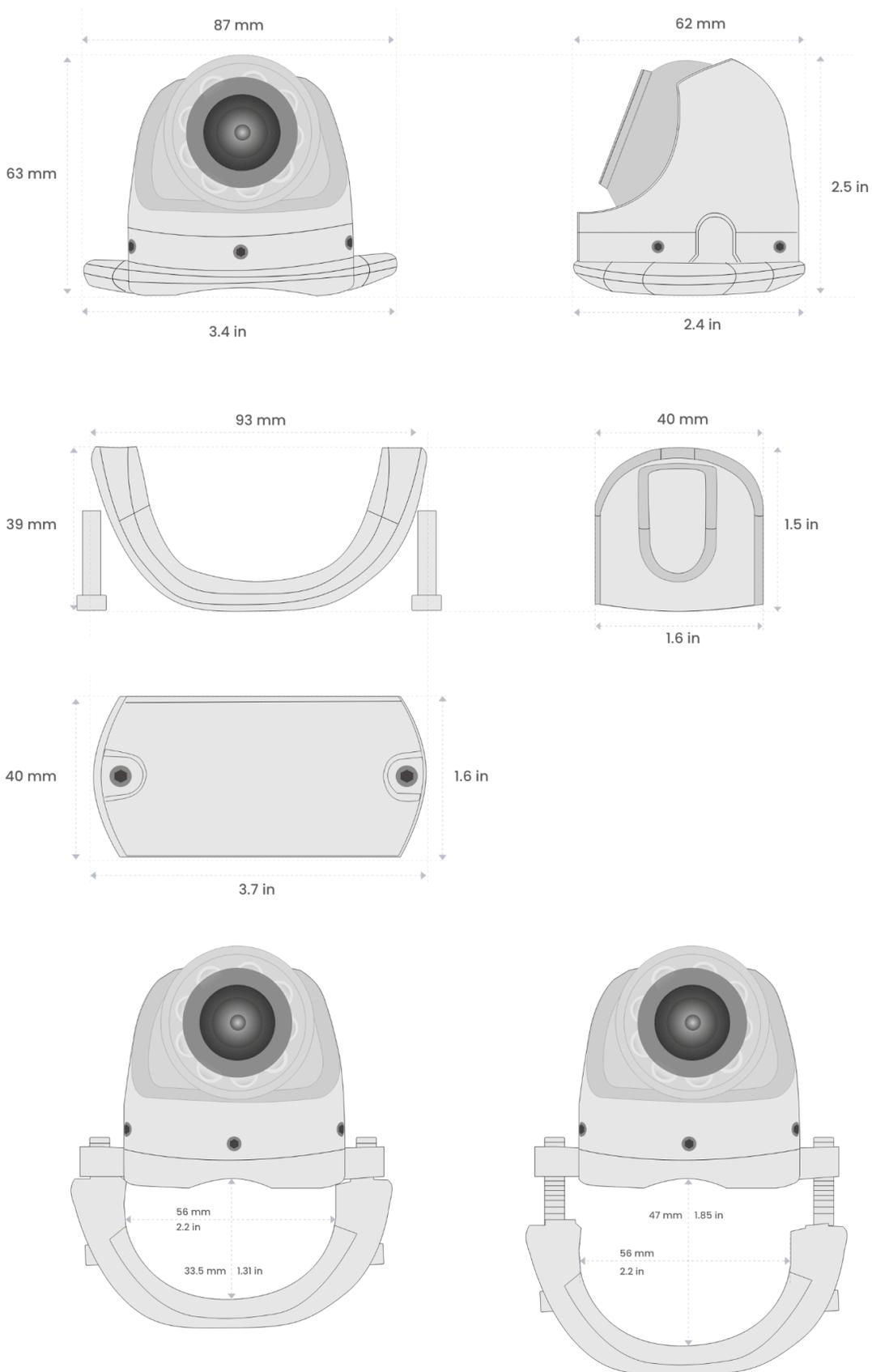
Equipped with IR illumination, the Weatherproof Extension Cameras are available in two mounting sizes, Small and Large. These cameras can be easily mounted on mirror arms, bars, or directly on the vehicle surface with the requirement of holes for installation. Their applications encompass various scenarios, including blind spot monitoring, fuel tank monitoring, and rear-view monitoring, among others.

The Weatherproof Extension Cameras are accompanied by Extension Cam Cables of varying lengths: 5 meters (16 feet) and 10 meters (32 feet). This selection allows users to tailor the setup according to their specific needs. For further assistance with camera and cable selection, refer to the Camera Configuration Helper below.

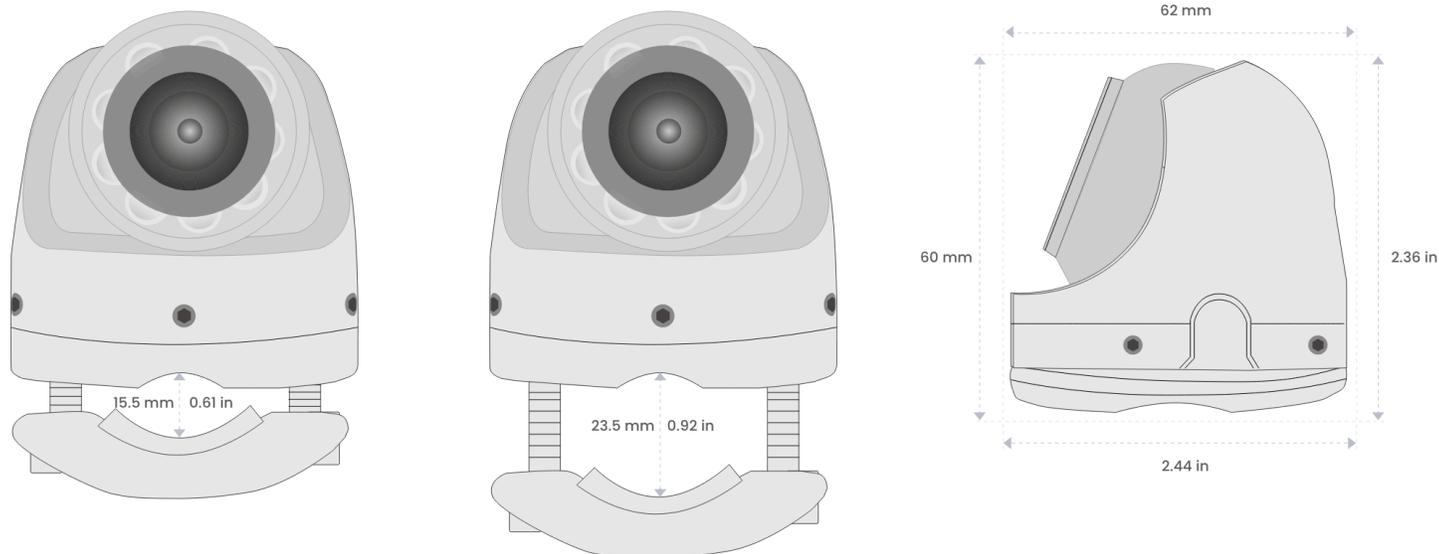
	Weatherproof Cam Small	Weatherproof Cam Large
<b>Video Resolution</b>	720p	
<b>Field of View</b>	124° (Diagonal), 95° (Horizontal), 69° (Vertical)	
<b>IR Illumination</b>	Yes up to 8 m / 26 ft	
<b>Minimum Illumination</b>	0.01 Lux	
<b>Operating Temperature</b>	-30°C to +85°C (-22°F to 185°F)	
<b>Storage Temperature</b>	-40°C to +105°C (-40°F to 221°F)	
<b>IP Rating</b>	IP69K	
<b>Shock Rating</b>	≥10G (camera body)	
<b>Surface Mount</b>	Back	Back & Front
<b>Bar/Mirror Arm Mount</b>	For thin bar/mirror arm mount (15.5 to 23.4 mm / 0.61 to 0.92 in)	For thick bar/mirror arm mount (33.5 to 47.5 mm / 1.32 to 1.87 in)
<b>Cable length</b>	1 m / 3.28 ft. Optional 5 m / 16.4 ft and 10 m / 32.8 ft Extension Cam Cable available.	



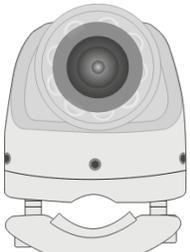
# Weatherproof Cam Large



## Weatherproof Cam Small



## Smarter AI Dashcam Pro - Extension Cameras - Product Variants

<p><b>Weatherproof Cam Small</b> SKU SAI-DC-PRO-EC-WCS</p> <p>Notes External weatherproof camera for thin mirror arm (1.55 to 2.34 cm / 0.61 to 0.92 in) mount.</p>		<p><b>Weatherproof Cam Large</b> SKU SAI-DC-PRO-EC-WCL</p> <p>Notes External weatherproof camera for thick mirror arm (3.35 to 4.75 cm / 1.32 to 1.87 in) mount.</p>	
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## Smarter AI Dashcam Pro - Extension Cameras - Cables

<p><b>Extension Cam Cable Dual</b> <b>SKU SAI-DC-PRO-EC-2</b></p> <p>Notes Connect up to two Weatherproof Extension Cameras to the Smarter AI Dashcam Pro.</p>		<p><b>Extension Cam Cable Quad</b> <b>SKU SAI-DC-PRO-EC-4</b></p> <p>Notes Connect up to four Weatherproof Extension Cameras to the Smarter AI Dashcam Pro.</p>	
<p><b>Extension Cam Cable 5m</b> <b>SKU SAI-DC-PRO-EC-5M</b></p> <p>Notes 5 m / 16 ft extension cable for Weatherproof Cameras.</p>		<p><b>Extension Cam Cable 10m</b> <b>SKU SAI-DC-PRO-EC-10M</b></p> <p>Notes 10 m / 32 ft extension cable for Weatherproof Cameras.</p>	

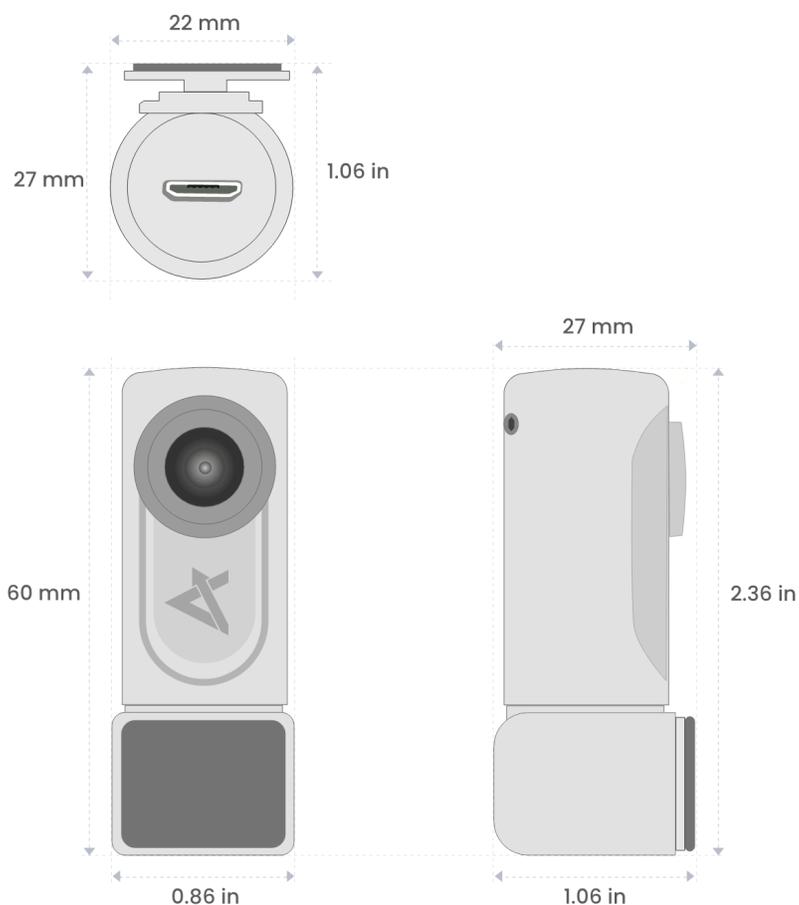


## Smarter AI Dashcam - Rear Cam - Specifications

Video Resolution	Up to 1080p
Field of View	142° (Diagonal), 116° (Horizontal), 60° (Vertical)
IR Illumination	No
Operating Temperature	-10°C to +60°C (14°F to 140°F)
Storage Temperature	-10°C to +70°C (14°F to 158°F)
IP Rating	None
Installation Environment	In-vehicle
Mounting System	Industrial grade adhesive
Cable Length	8 m / 26 ft

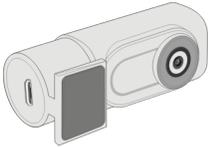
### Includes:

→ 8 m / 26 ft cable



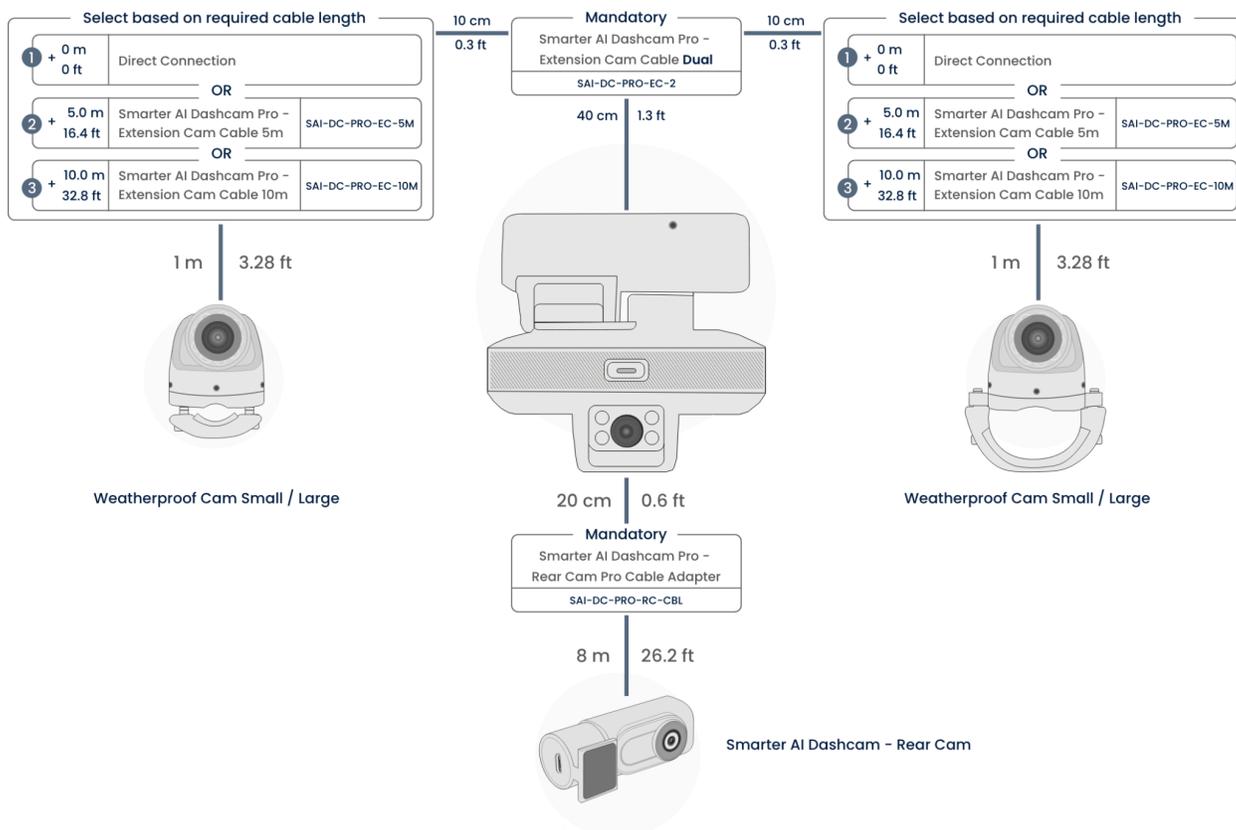


## Smarter AI Dashcam - Rear Cam - Product Variants & Accessories

<p><b>Rear Cam</b> SKU SAI-DC-RC</p> <p>Notes Rear-view camera for in-vehicle use only. 8 m / 26 ft cable included.</p>		<p><b>Rear Cam Pro Cable Adapter</b> SKU SAI-DC-PRO-RC-CBL</p> <p>Notes Adapter cable to connect the Rear Cam to the Smarter AI Dashcam Pro.</p>	
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# Smarter AI Dashcam Pro - Extension Cameras - Configuration Helper

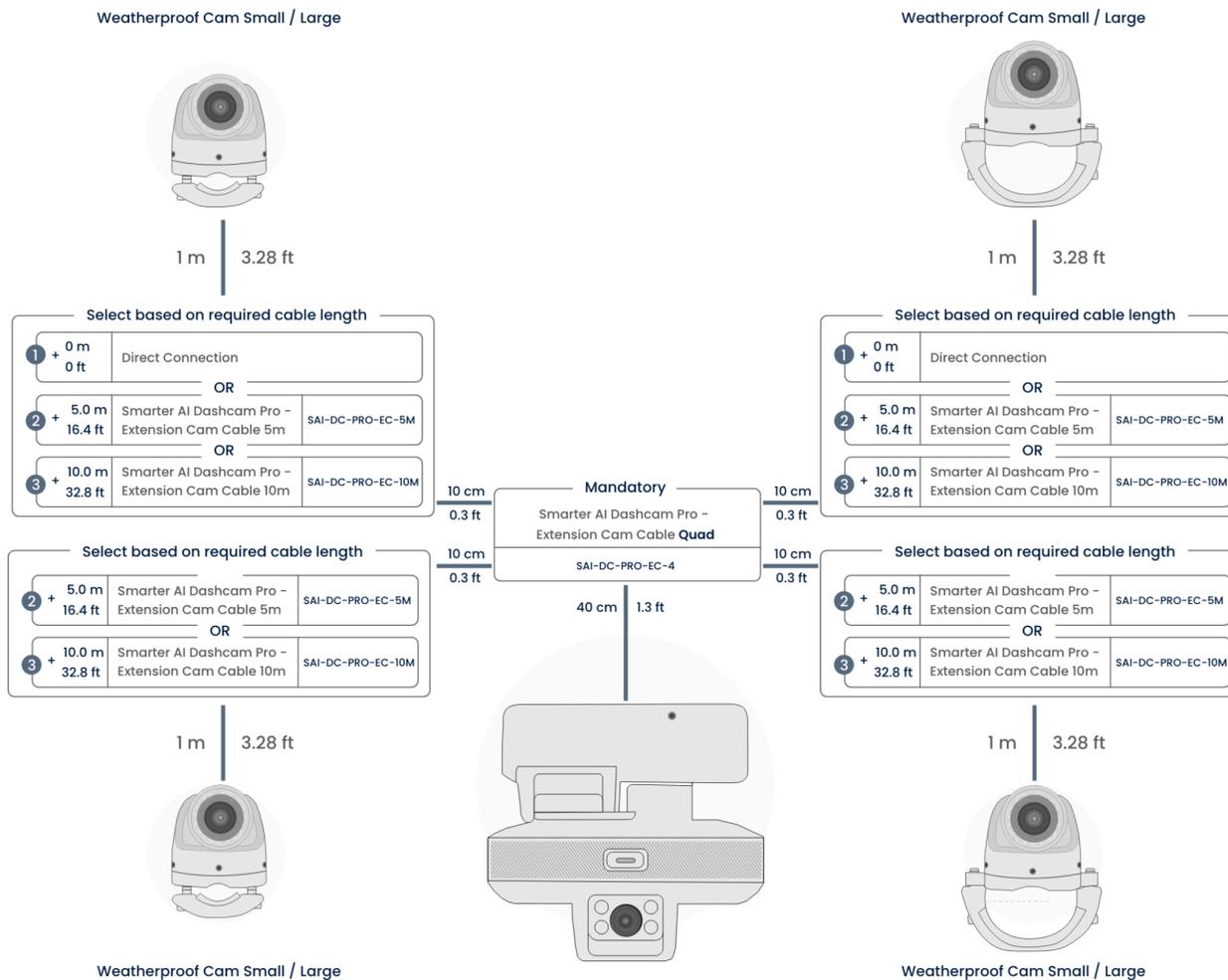
## A. Two Weatherproof Extension Cameras & one Extension Rear Cam



### Total cable length between the Smarter AI Dashcam Pro and the Weatherproof Extension Camera:

- 1.1 m / 3.6 ft - Extension Cam Cable Dual (SAI-DC-PRO-EC-2)
- 6.1 m / 20.0 ft - Extension Cam Cable Dual (SAI-DC-PRO-EC-2) + Extension Cam Cable 5m (SAI-DC-PRO-EC-5M)
- 11.1 m / 36.4 ft - Extension Cam Cable Dual (SAI-DC-PRO-EC-2) + Extension Cam Cable 10m (SAI-DC-PRO-EC-10M)

## B. Four Weatherproof Extension Cameras



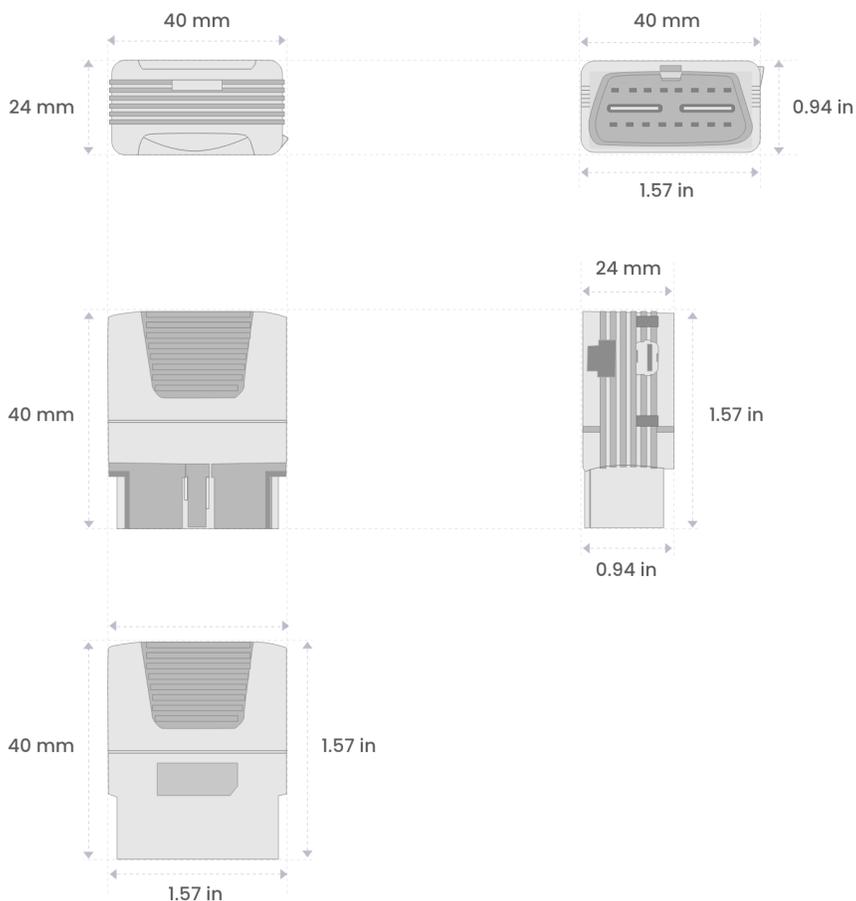
### Total cable length between the Smarter AI Dashcam Pro and the Weatherproof Extension Camera:

- 1.1 m / 3.6 ft - Extension Cam Cable Dual (SAI-DC-PRO-EC-2)
- 6.1 m / 20.0 ft - Extension Cam Cable Dual (SAI-DC-PRO-EC-2) + Extension Cam Cable 5m (SAI-DC-PRO-EC-5M)
- 11.1 m / 36.4 ft - Extension Cam Cable Dual (SAI-DC-PRO-EC-2) + Extension Cam Cable 10m (SAI-DC-PRO-EC-10M)



## Smarter AI Dashcam Pro - Smarter Cable™ CAN - Specifications

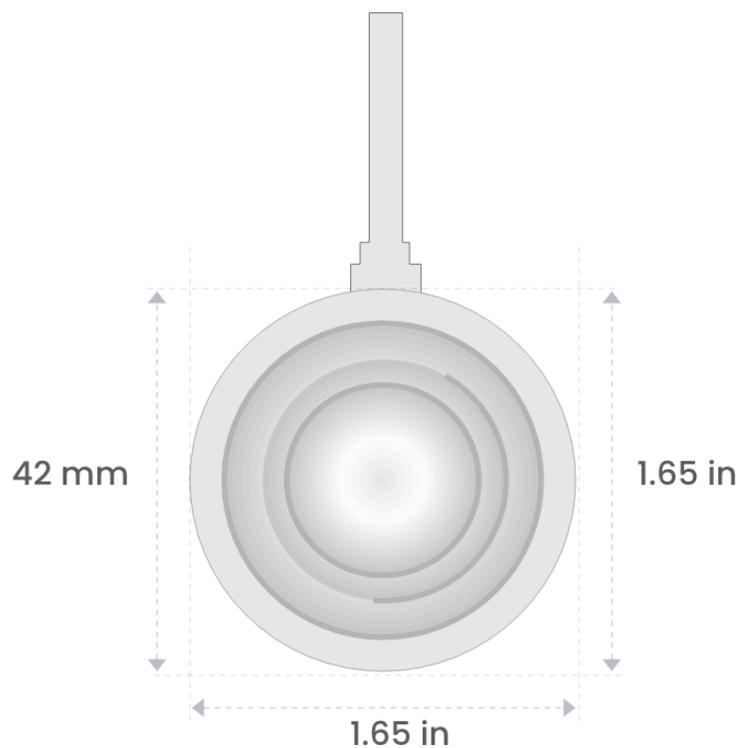
<b>Support Vehicle Protocols</b>	Primary CAN (PIN 6/14)
	Secondary CAN (PIN 3/11, 2/10)
	J1850 (PIN 2/10)
	ISO9141 K/L / KWP2000 (PIN 7/15)
	J1939 (PIN 6/14)
<b>Power Input</b>	9-32 VDC
<b>Power Consumption</b>	200 mW
<b>Operating Temperature</b>	-20°C to +85°C (-4°F to 185°F)
<b>Storage Temperature</b>	-30°C to +85°C (-22°F to 185°F)
<b>Dimensions</b>	40 x 40 x 24 mm (1.57 x 1.57 x 0.47")
<b>Cable Length</b>	3.5m / 11.5ft





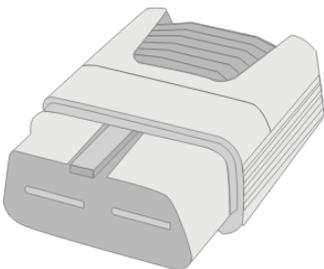
## Smarter AI Dashcam - Extension Panic Button - Specifications

<b>Cable Length</b>	2.5m / 8ft
<b>Power Consumption</b>	84 mW
<b>Operating Temperature</b>	-20°C to +70°C (-4°F to 158°F)
<b>Storage Temperature</b>	-30°C to +80°C (-22°F to 176°F)
<b>Dimensions</b>	42 x 42 x 29.4 mm (1.65 x 1.65 x 1.16")





## Smarter Cable™ CAN - Product Variants

<p><b>Smarter Cable™ CAN</b> <b>SKU SAI-DC-CBL-CAN</b></p> <p>Notes Power your Dashcam, access the vehicle buses (2xCAN, J1850, ISO9141 K/L &amp; J1939), add an optional panic button.</p>	
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## Smarter Cable™ CAN - Accessories

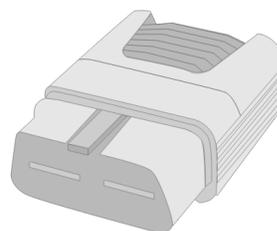
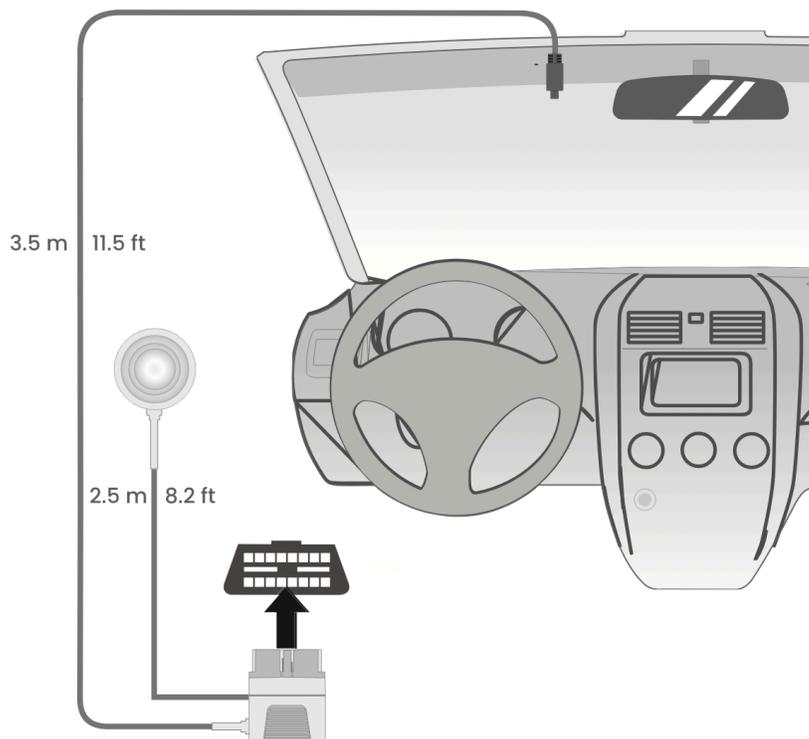
<p><b>Extension Panic Button</b> <b>SKU SAI-DC-CBL-CAN-PB</b></p> <p>Notes This optional Panic Button requires the Smarter CAN Cable.</p>		<p><b>OBD Extender</b> <b>SKU SAI-DC-CBL-OBD-EXT</b></p> <p>Notes Extension OBD cable to place the Smart CAN Cable under the dashboard.</p>	
<p><b>OBD Splitter</b> <b>SKU SAI-DC-CBL-OBD-SPLIT</b></p> <p>Notes Extension and splitter OBD cable to place the Smart CAN Cable under the dashboard and leave a free OBD port available.</p>		<p><b>OBD J1939 Splitter</b> <b>SKU SAI-DC-CBL-OBD-J1939</b></p> <p>Notes J1939 Extension and splitter OBD cable to connect the Smart CAN Cable to a vehicle with a J1939 port. It leaves a free J1939 port available.</p>	



## Smarter AI Dashcam Pro - Cable Selection Helper

### Smarter Cable™ CAN

SAI-DC-PRO-CBL-CAN

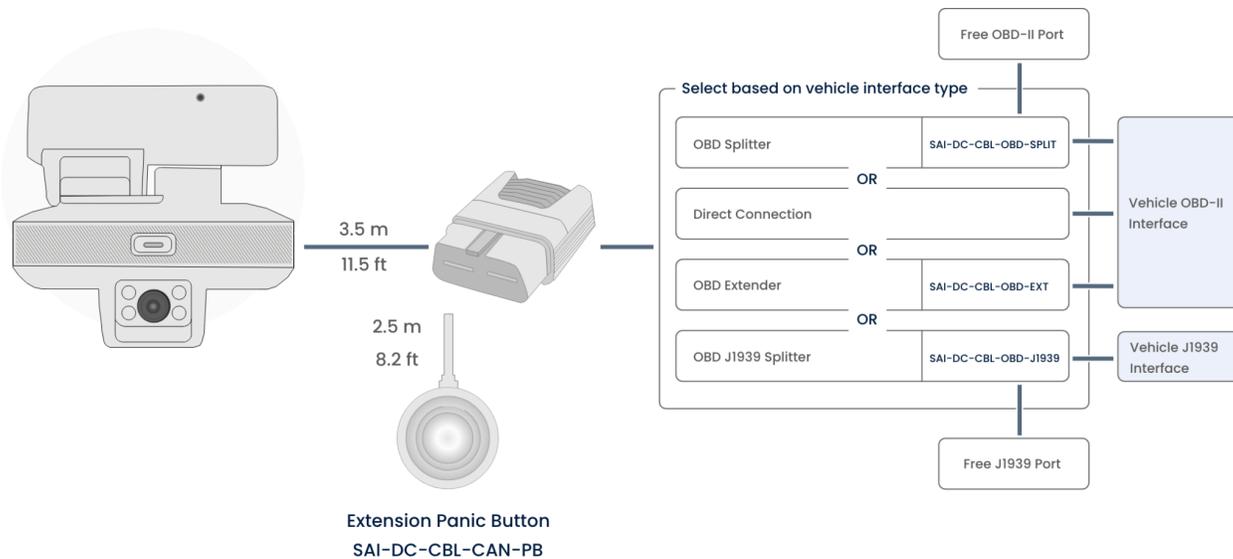


Smarter Cable™ CAN

### Smarter Cable™ CAN OBD Pinout

Bus / Protocol / Purpose	OBD-II Connector PINs	
J1850 (PWM / VPW)	2	10
CAN 250 Kbps (J1939, FMS, OBD2, Proprietary)	2 / 3	10 / 11
CAN 250 / 500 Kbps (J1939, FMS, OBD2, Proprietary)	6	14
Power	4	16
ISO9141 K/L	7 / 7	15 / -
KWP2000	7 / 7	15 / -

### Smarter Cable™ CAN Accessories



**OBD Extender**  
1.0 m / 3.2 ft

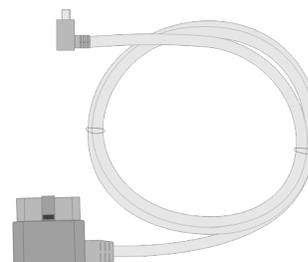
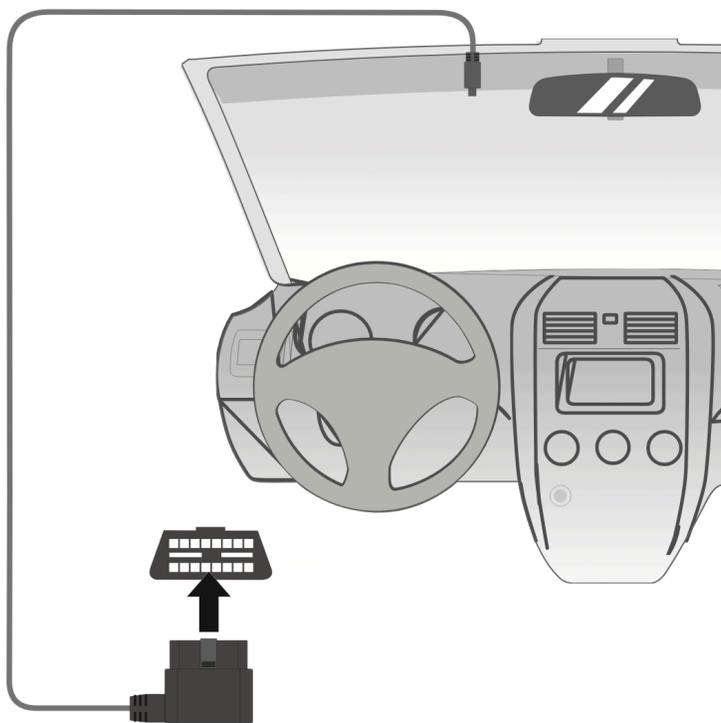


**OBD Splitter**  
1.0 m / 3.2 ft



**OBD J1939 Splitter**  
0.5 m / 1.6 ft  
(per branch)

**OBD Power Cable**  
**SAI-DC-PRO-CBL-OBD-P**

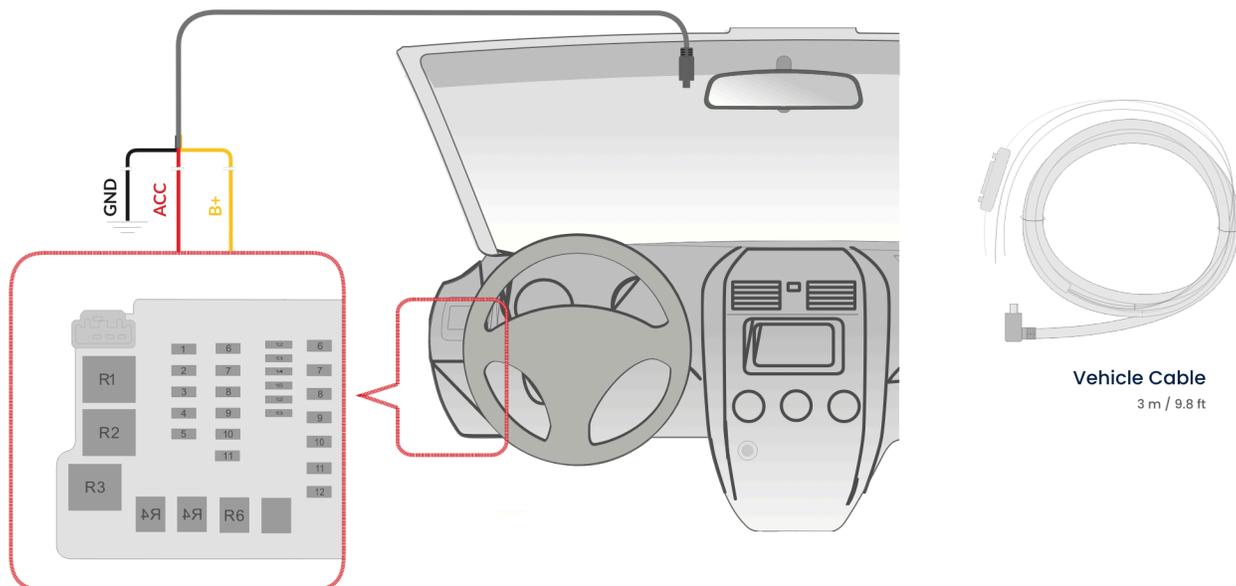


**OBD Power Cable**  
 3 m / 9.8 ft

**OBD Power Cable OBD Pinout**

Bus / Protocol / Purpose	OBD-II Connector PINs	
Power	4	16

## Vehicle Cable SAI-DC-PRO-CBL-VCL



## Vehicle Cable Pinout

Wire	Color	Connect to	Connection
ACC	Red	Accessory/ignition	Mandatory
B+	Yellow	Power (12-24VDC)	
GND	Black	Ground	