

Smarter AI Dashcam

Connected & AI-driven Vehicle Camera
for Precision AI Video Telematics.

DATASHEET



SPEED LIMIT 60 KM/H

STOP SIGN — 90 %

VEHICLE, TURNING — 99 %

VEHICLE — 99 %

60

STOP



Overview

Presenting the Smarter AI Dashcam, a cutting-edge solution that offers connected, AI-driven video telematics and telematics services specially designed for fleets. Housed in a strongly tamper-proof and compact form factor, this device provides reliable and advanced functionalities.

With the Smarter AI Dashcam, deploying AI Models tailored to your specific use case becomes effortless, including the option to integrate your own custom models. The process is made simple with secure Over-the-Air (OTA) updates using AI Containers™.

Furthermore, integrating the Smarter AI Dashcam with your vehicle subsystems, such as CAN, is seamless thanks to its optional interfaces, enhancing data exchange and connectivity. Additionally, driver authentication is made easy through the built-in RFID/NFC card reader.

Key Features

- Designed for fleets
- Tamper proof
- Driver authentication
- Vehicle telematics
- Up to 512GB of local storage
- Deploy Edge AI Models as simply as an app on a phone (DMS, ADAS)
- Up to 3 cameras
- Configurable event triggers
- Easy integration through APIs
- Live & recorded audio & video
- Smarter onboarding
- Compatible with Smarter AI Software Services
- AES-256 encryption in transit and at rest



Specifications

Video Codecs	h.264, h.265		
Cameras	Extension Camera (Optional)		
	Road	Up to 1080p30, Horizontal Field of View (FOV) 116°	
	Cabin	Up to 1080p30, Horizontal FOV 116°	
		IR Illumination 940nm	
Extension	Up to 1080p30, Horizontal FOV 116°		
Cellular	LTE Cat.6 (3G/2G Fallback, Region Dependant)		
	ANZ, EMEA, LATAM & SA	Frequency Band	LTE FDD Band 1/2/3/4/5/7/8/20/28
			LTE TDD Band 38/39/40/41
			WCDMA Band 1/2/4/5/8
			GSM 850/900/1800/1900MHz
	NA	Frequency Band	LTE FDD Band 2/4/5/7/12/13/14/17/25/26/66/71
			LTE TDD Band 41
			WCDMA Band 2/4/5
	Cellular Certifications	PTCRB, RED	
Carrier Certifications	AT&T Network Ready, AT&T Network Optimization, Verizon, T-Mobile, Telus, Rogers, Telstra		
FirstNet® Certification	FirstNet® Trusted		
SIM Card	NanoSim Slot (4FF)	Customer Cellular Data Plans	
	Embedded eSIM	Smarter AI Cellular Data Plans	
Geography	ANZ	Australia & New Zealand	
	EMEA	Europe, the Middle East & Africa	
	LATAM	Latin America	
	NA	Canada & USA	
	SA	United Kingdom, South Africa, and South Asia	



Wi-Fi	Wi-Fi 5 (802.11ac)		
Bluetooth	Bluetooth 4.2 with BLE		
Power Inputs	12 to 32 VDC		
Power Management	Ignition Sensor (ACC)		
	Supercapacitor		
Power Consumption	Supported Powertrains	Internal Combustion Engine (ICE) & Electric (EV)	
	Nominal	6 W (0.5 A at 12 V / 0.25 A at 24 V)	
	Peak	10 W (0.83 A at 12 V / 0.41 A at 24 V)	
	Parking Mode	50 mW (4.2 mA at 12 V / 2.1 mA at 24 V)	
		Awakening	Impact Detection
LTE Awakening			
ACC/Ignition			
Vehicle Motion			
Compute	CPU	8 cores + AI Accelerator	
Positioning	Multi-constellation GNSS		
Memory Card	Micro SDXC card up to 512GB		
Sensors	3-axis G-sensor		
	Gyroscope		
	Thermometer		
Camera Adjustment	Up & Down with locking mechanism		
Mounting System	Industrial grade adhesive		
Buttons	Driver-accessible programmable emergency button		
	No other driver-accessible buttons (on/off/reset, etc.)		
LED Indicators	Connectivity, Notification		

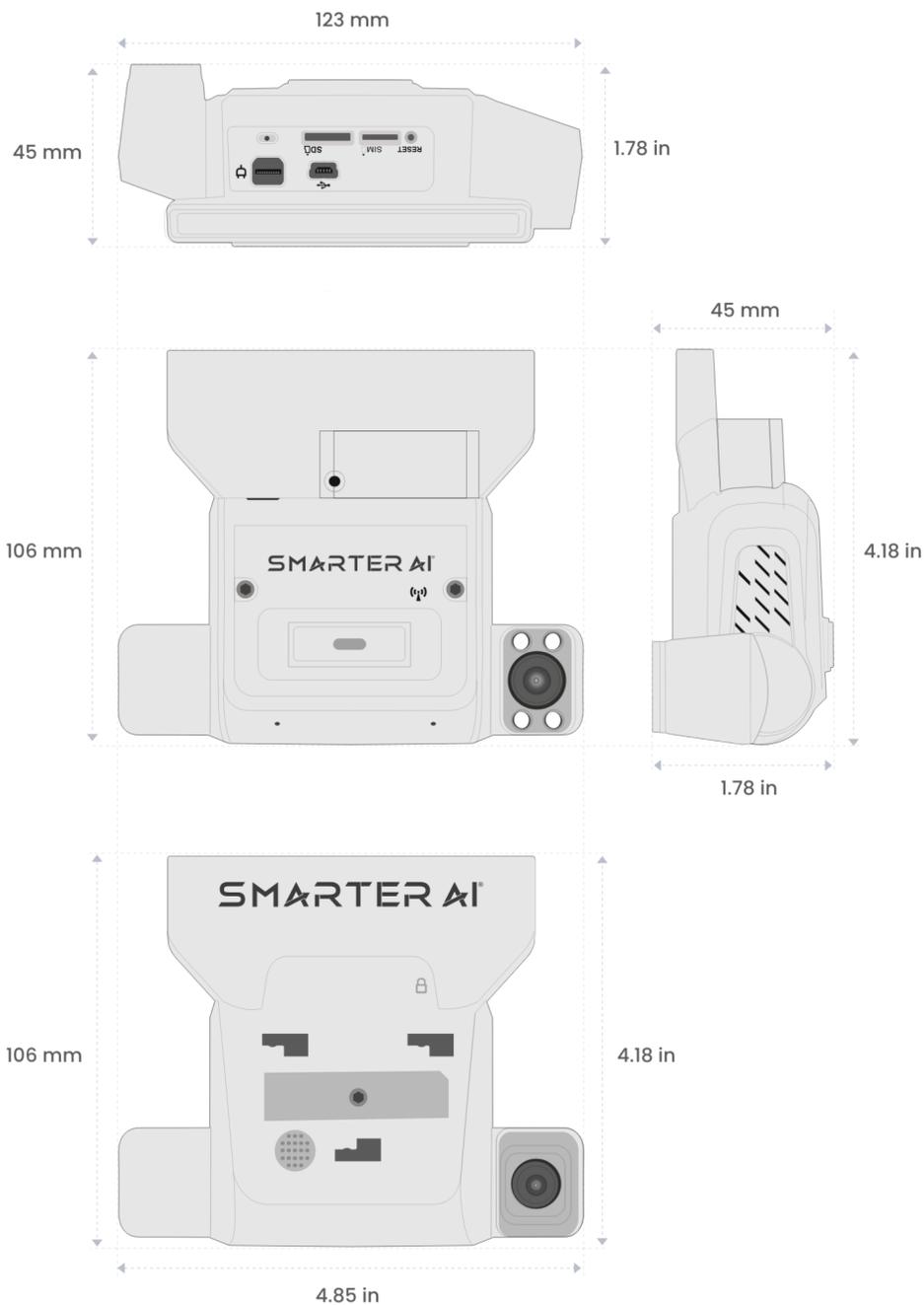


Card Reader	NFC: MiFare, FeliCA	
	RFID (HF): ISO14443A&B, ISO15693	
BLE Tags Support	Supported Beacons, Sensors, and Driver Tags	
Microphone	Yes, with noise cancellation	
Loudspeaker	Yes	
Vehicle Interfaces	Optional: Smarter Cable CAN	FMS, J1939, J1850, ISO9141 K/L, 2 x CAN
		OBD-II J1962, J1939, up to 2 x Contactless CAN interfaces (optional & upcoming)
	Optional: Smarter Cable Contactless (upcoming)	1 x Contactless CAN interface
	3 x Digital Inputs (5V) & 1 x Digital Output (3.3V)	
	RS 232 Tx/Rx	
IP Rating	IP30	
Dimensions	123 x 106 x 45 mm (4.85 x 4.18 x 1.78")	
Data Security	AES-256 encryption in transit and at rest	
Weight	213 g (7.51 oz)	
Temperature Rating	Operating	-20°C to +60°C (-4°F to 140°F)
	Storage	-30°C to +85°C (-22°F to 185°F)
Tamper Protection	I/O Cover for Cable, SD & SIM card with tamper-resistant lock screw & tamper switch.	
	Tamper-resistant lock screws for camera position.	
Warranty	Subject to Smarter AI Terms of Sale.	
Standards	CE, CB, FCC/IC, UKCA, RCM, RCB, BQB, ROHS, WEEE	

Box Content

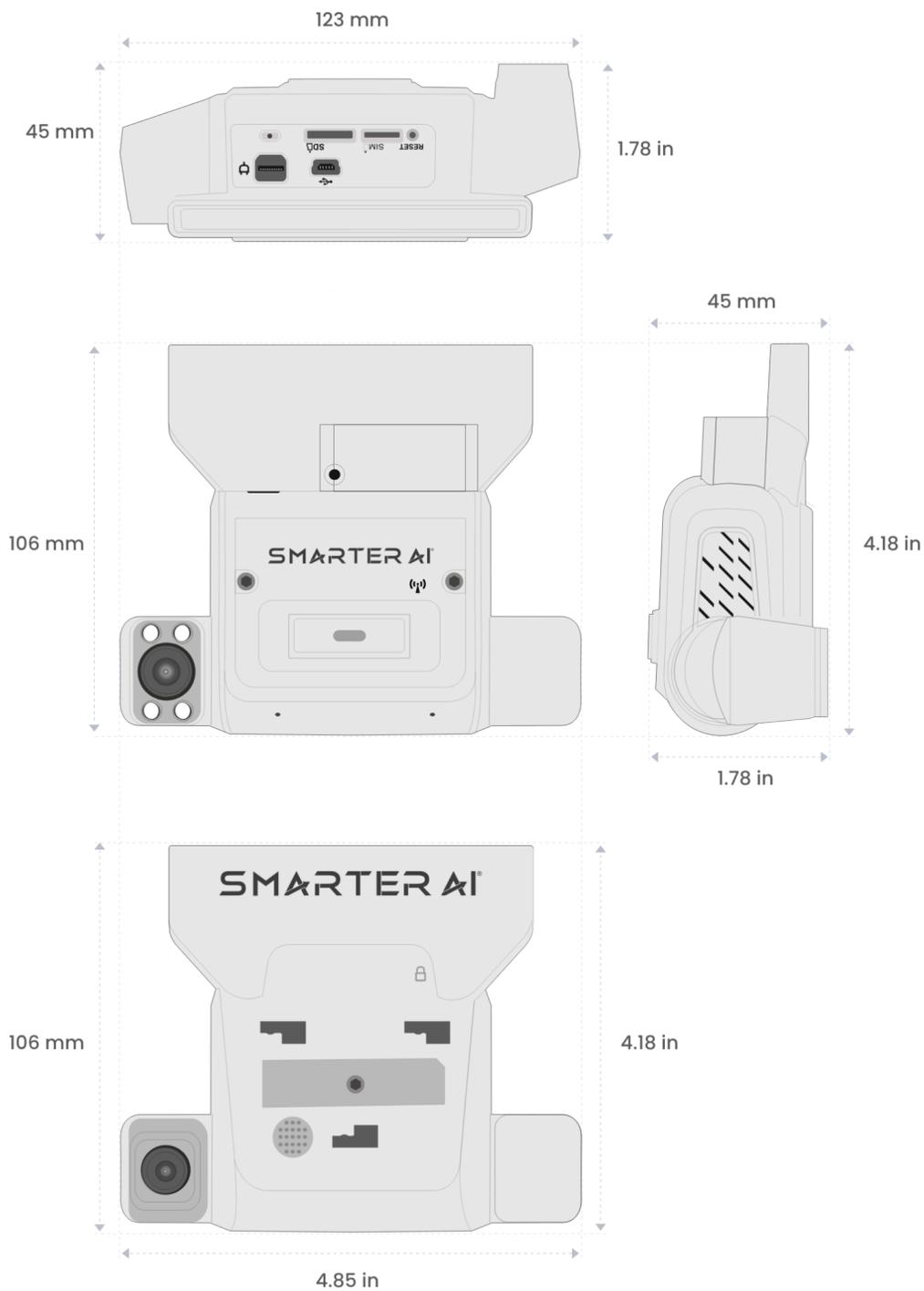
- Smarter AI Dashcam
- Installation Guide
- Mounting Kit
- Vehicle Cable
- I/O Cover
- Alcohol Wipe
- M2 Hex Key Wrench
- Truck Cable Cap
- Automotive-grade micro SD Card

Smarter AI Dashcam EMEA, LATAM & NA





Smarter AI Dashcam SA & ANZ





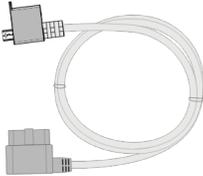
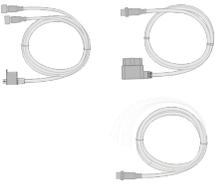
Product Variants

<p>Smarter AI Dashcam ANZ SKU SAI-DC-ANZ</p> <p>Notes For Australia & New Zealand Right-Hand Drive</p>		<p>Smarter AI Dashcam EMEA SKU SAI-DC-EMEA</p> <p>Notes For Europe, the Middle East & Africa Left-Hand Drive</p>	
<p>Smarter AI Dashcam LATAM SKU SAI-DC-LATAM</p> <p>Notes For Latin America Left-Hand Drive</p>		<p>Smarter AI Dashcam NA SKU SAI-DC-NA</p> <p>Notes For Canada & USA Left-Hand Drive</p>	
<p>Smarter AI Dashcam SA SKU SAI-DC-SA</p> <p>Notes For South Africa, South Asia & United Kingdom. Right-Hand Drive</p>			

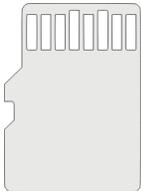
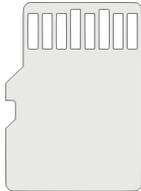
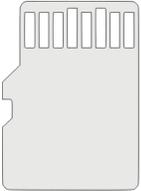


Smarter AI Dashcam - Accessories

Cables

<p>Vehicle Cable SKU SAI-DC-CBL-VCL</p> <p>Notes Power your Dashcam from the vehicle fuse box. Ignition (ACC) aware cable.</p>		<p>OBD Power Cable SKU SAI-DC-CBL-OBD-P</p> <p>Notes Power your Dashcam from the vehicle OBD port.</p>	
<p>Smarter Cable™ I/O SKU SAI-DC-CBL-ECU</p> <p>Notes Ignition (ACC) aware OBD cable with basic CAN bus access, Digital I/Os, RS-232. By request only.</p>			

Storage

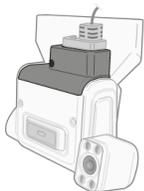
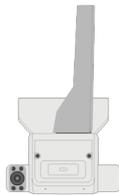
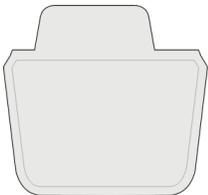
<p>128GB SD Card - (10 pack) SKU SAI-SD-128</p> <p>Notes Automotive-grade and high-endurance.</p>		<p>256GB SD Card - (10 pack) SKU SAI-SD-256</p> <p>Notes Automotive-grade and high-endurance.</p>	
<p>512GB SD Card - (10 pack) SKU SAI-SD-512</p> <p>Notes Automotive-grade and high-endurance.</p>			



Camera Covers

<p>Cabin Lens Cover - (10 pack) SKU SAI-DC-CVR-CF</p> <p>Notes Privacy cover for the cabin camera.</p>		<p>Road Lens Cover - (10 pack) SKU SAI-DC-CVR-RF</p> <p>Notes Privacy cover for the road camera.</p>	
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Spare Parts

<p>Spare I/O Cover - (10 pack) SKU SAI-DC-CVR</p> <p>Notes Tamper-proof cover for cable connectors, SIM, and SD cards.</p>		<p>Truck Cable Cap - (10 pack) SKU SAI-DC-CCP</p> <p>Notes Cable cover with dust protection for large windshields (e.g., trucks).</p>	
<p>Spare Mounting Kit - (10 pack) SKU SAI-DC-MNT</p> <p>Notes Spare Dashcam windshield Mounting Kit.</p>			

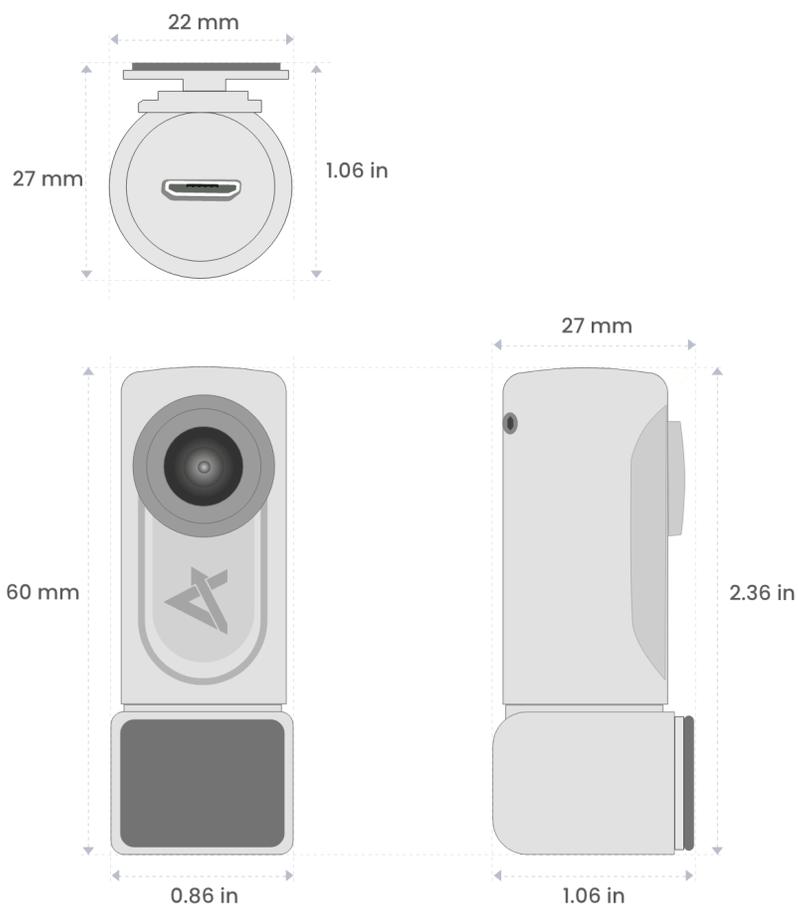


Smarter AI Dashcam - Rear Cam - Specifications

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





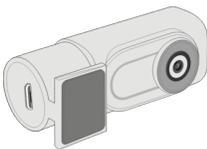
Smarter AI Dashcam - Rear Cam - Product Variants

Rear Cam

SKU SAI-DC-RC

Notes

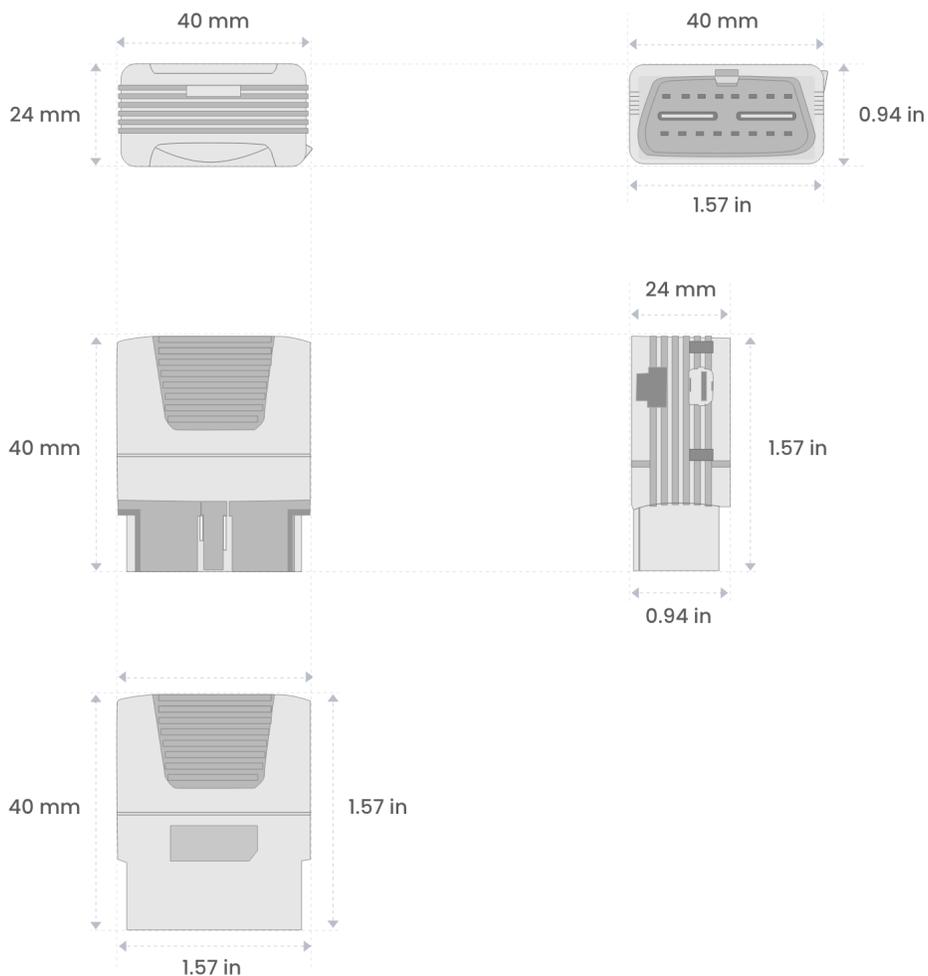
Rear-view camera for in-vehicle use only. 8 m / 26 ft cable included.





Smarter AI Dashcam - Smarter Cable™ CAN - Specifications

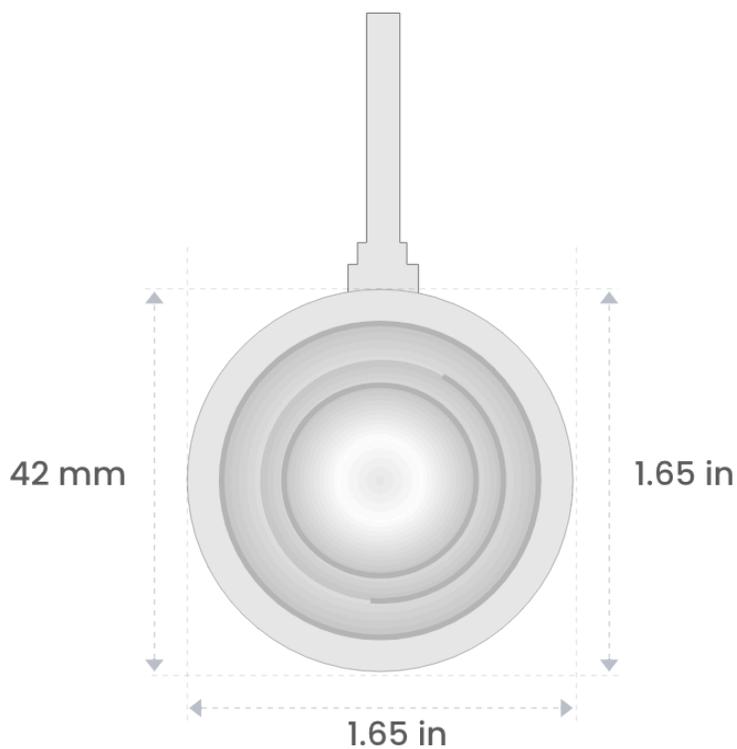
Support Vehicle Protocols	Primary CAN (PIN 6/14)
	Secondary CAN (PIN 3/11, 2/10)
	J1850 (PIN 2/10)
	ISO9141 K/L / KWP2000 (PIN 7/15)
	J1939 (PIN 6/14)
Power Input	9-32 VDC
Power Consumption	200 mW
Operating Temperature	-20°C to +85°C (-4°F to 185°F)
Storage Temperature	-30°C to +85°C (-22°F to 185°F)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





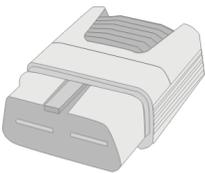
Smarter AI Dashcam - Extension Panic Button - Specifications

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





Smarter CAN Cable - Product Variants

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

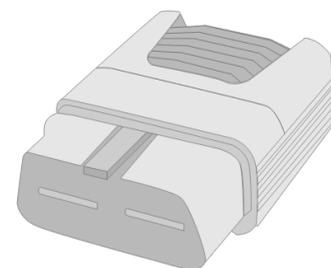
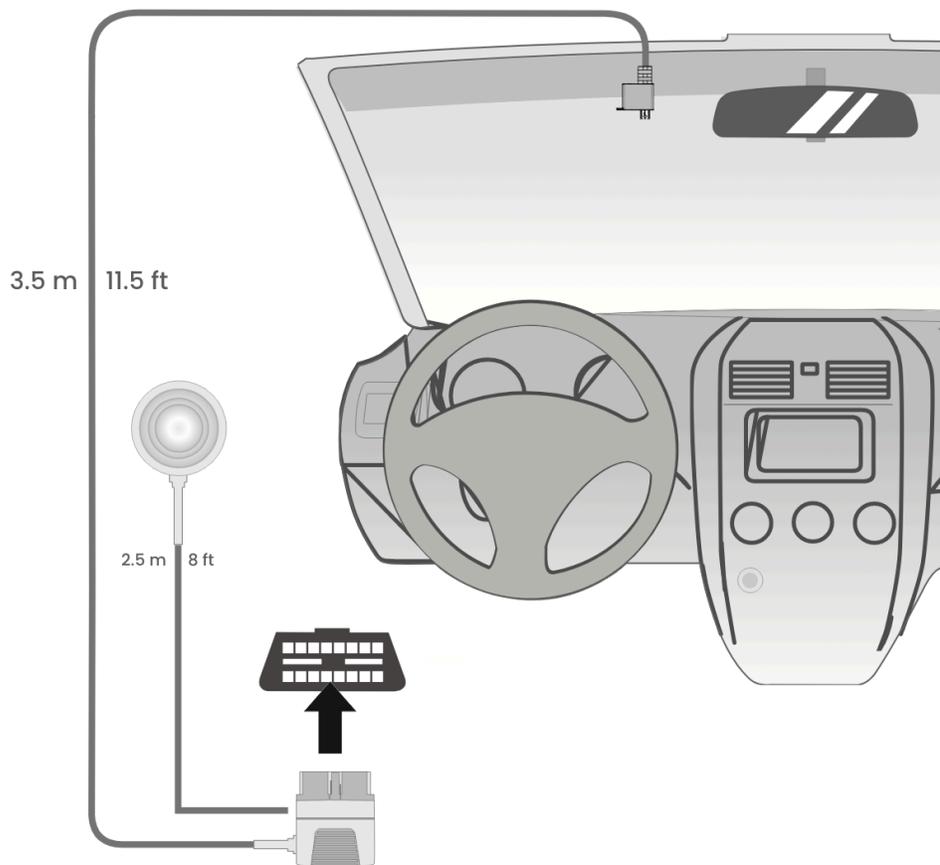
<p>Extension Panic Button SKU SAI-DC-CBL-CAN-PB</p> <p>Notes This optional Panic Button requires the Smarter CAN Cable.</p>		<p>OBD Extender SKU SAI-DC-CBL-OBD-EXT</p> <p>Notes Extension OBD cable to place the Smart CAN Cable under the dashboard.</p>	
<p>OBD Splitter SKU SAI-DC-CBL-OBD-SPLIT</p> <p>Notes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

Smarter Cable CAN - Product Variants

SAI-DC-CBL-CAN



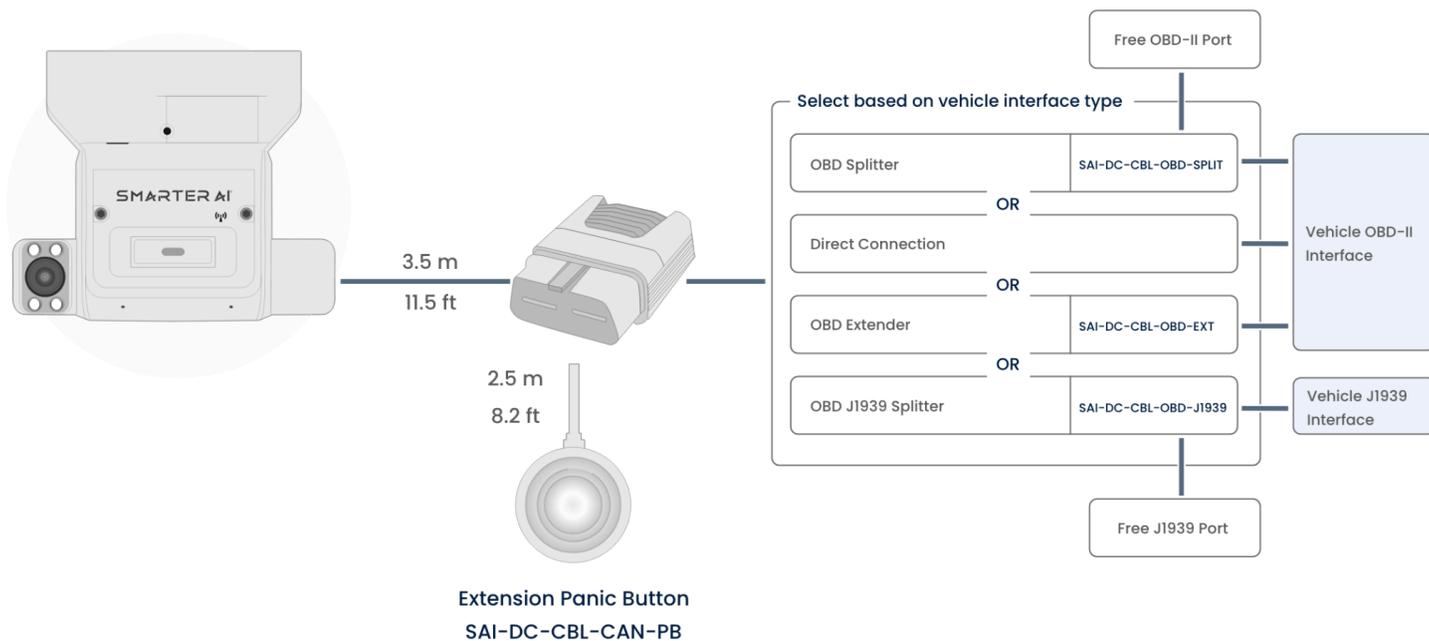
Smarter Cable™ CAN

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

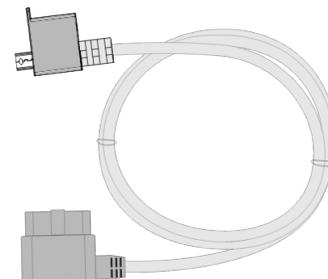
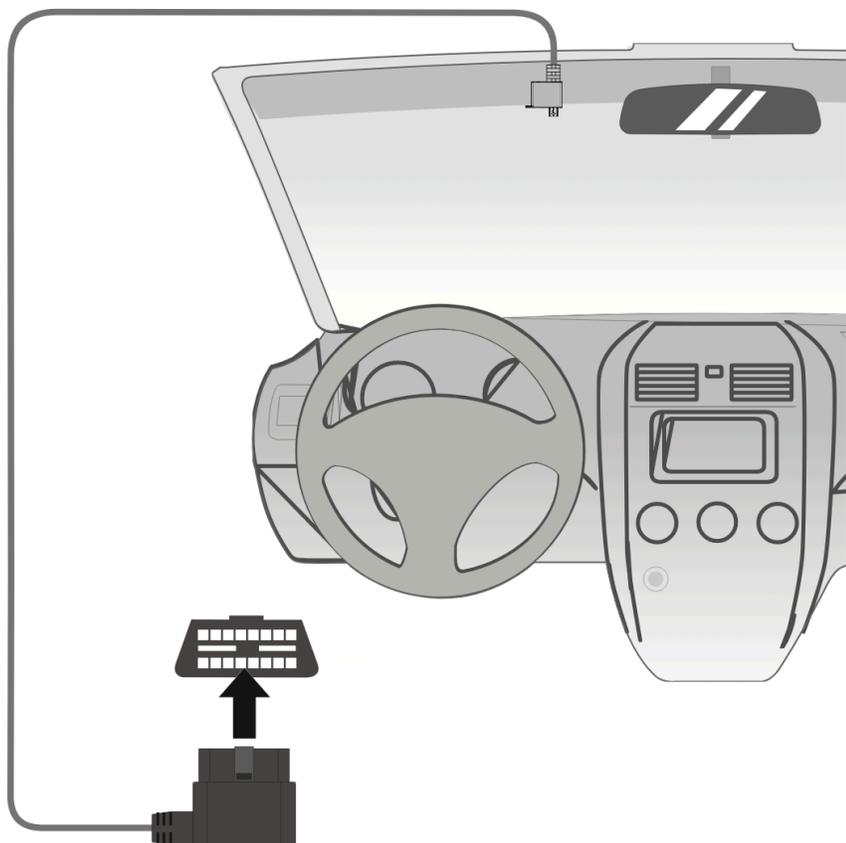


OBD Splitter
1.0 m / 3.2 ft



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

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

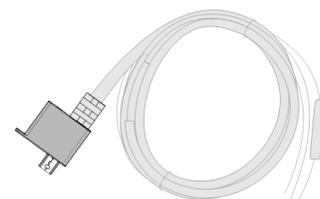
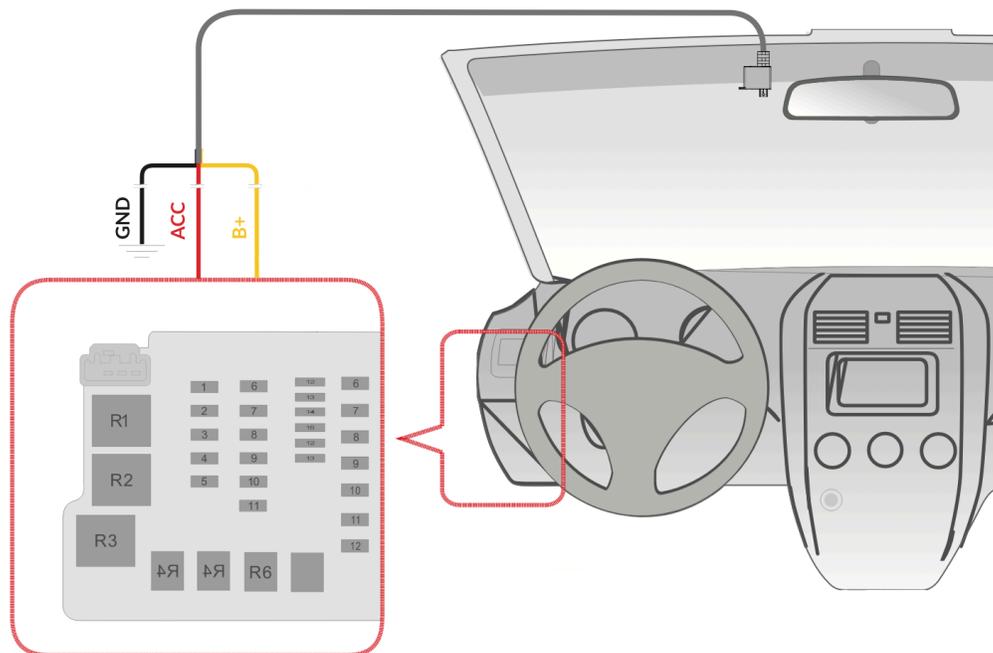


OBD Power Cable
3 m / 9.8 ft

OBD Power Cable OBD Pinout

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

Vehicle Cable SAI-DC-CBL-VCL



Vehicle Cable
3 m / 9.8 ft

Vehicle Cable Pinout

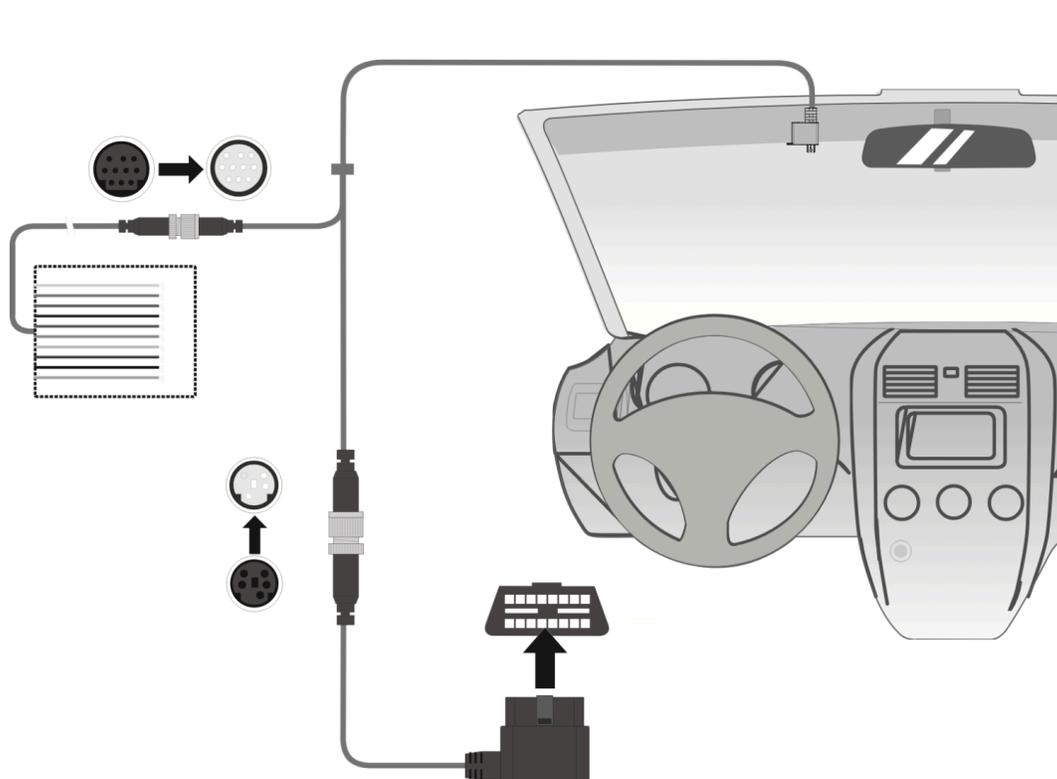
Wire	Color	Connect to	Connection
ACC	Red	Accessory/ignition	Mandatory
B+	Yellow	Power (12-24VDC)	
GND	Black	Ground	



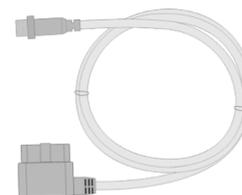
Smarter Cable™ I/O

SAI-DC-CBL-IO

By request only



Smarter I/O Y Cable
1.5 m / 4.9 ft



Smarter I/O OBD Cable
1.5 m / 4.9 ft



Smarter I/O Signal Cable
1.0 m / 3.3 ft

Smarter Cable™ I/O OBD Cable Pinout

Bus / Protocol / Purpose	OBD-II Connector PINs	
	6	14
CAN	6	14
J1939	6	14
Power	4	16



Smarter Cable™ I/O Signal Cable Pinout

Wire	Color	Connect to	Connection
ACC	Red	Accessory/Ignition	Mandatory
GND	Black	Ground	
Reverse	Orange	Not in use / Do not connect	Optional
Speed Plus	Blue		
Inputs	Yellow	Digital Input (5V)	
	Purple		
	Brown		
Output	Grey	Digital Output (3.3V)	
RS232 TX OUT	Green	RS232 TX Out (To vehicle)	
RS232 RX IN	White	RS232 RX In (From vehicle)	