




FleetCam Essential

-  Built-in GPS Tracking
-  Road & Driver Event Detection
-  Plug & Play Installation
-  Wi-Fi Hotspot
-  Wide Angle View

Built on powerful AI edge processing, the FleetCam Essential gives you everything you need to monitor your fleet and improve driver safety and accountability. It features AI safety event detection and alerts, 2-channel recording, and crystal-clear HD footage with excellent low-light visibility.

Wake-up at will

Remote wake-up and sleep mode allows your team to stream or view historic footage when needed while also conserving vehicle battery life.

Driving has never been safer

FleetCam Essential's powerful AI detects and warns of safety events, saving lives and improving driving behavior with features like harsh driving detection, follow distance warning, and more.

Next-level clarity

Armed with 1080P HD resolution, FleetCam Essential gives you the clarity you need while infrared ensures excellent low-light performance.

Effortless communication & tracking

With Wi-Fi, 4G communication, positioning module, echo cancellation, and noise canceling support, in-cab communication becomes effortless and clear.

POSITIONING

GNSS	Supported GPS L1 C/A: 1575.42 MHz Galileo E1: 1575.42 MHz GLONASS L1: 1598.0625-1605.375 MHz BDS B1, BDS B1C, QZSS L1 C/A
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NETWORK

Wi-Fi	Support 2.4G (IEEE Std. 802.11a/b/g/n)
4G	Plug-in SIM card (Nano SIM card) - For North America: LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71 WCDMA: B2/B4/B5 - For Europe and Asia LTE FDD: B1/B3/B7/B8/B20/B28A WCDMA: B1/B8, GSM: B3/B8 - For Latin America LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE TDD: B40 WCDMA: B1/B2/B5/B8 GSM: B2/B3/B5/B8

POWER

Power supply	12-24V Range
Power consumption	<ul style="list-style-type: none"> In standby mode: 13.5V@5.66mA, 27V@3.4mA In sleep mode (4G and MCU powered): 13.5V@71~125mA, 27V@30~56mA Typical power consumption: about 7.56W Full-load power consumption: about 10.06W

ENVIRONMENT

Operating Temperature	-40°C ~ +70°C (-40°F ~ +158°F)
Storage Temperature	-40°C ~ +85°C (-40°F ~ +185°F)
Operating and storage Humidity	15~95% non-condensing
IP Rating	IP30

PHYSICAL

Dimensions (mm)	Dashcam: 113.0 mm×67.8 mm×88.2 mm (excluding bracket); Deviation: ±2 mm Package: 176 mm×150 mm×114 mm; Deviation: ±3 mm
Weight (kg)	Net weight (device only): 295g Gross weight (including accessories and package): 745g Deviation: ±10g

PORT

Button	1- Single click for SOS or Manual trigger event 2- Press and hold to enable Privacy Mode 3- Press twice within 2 seconds to enable WiFi AP Mode
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RECORDING

Video Compr. Format	H.264/H.265 (Default)
Audio Compr. Format	ADPCM, G.711, G.726
Image Resolution	ADAS: 1080P (1920 × 1080) DMS: 1080P (1920 × 1080) Supports PAL & NTSC

VIDEO-AUDIO

Video/Audio Recording	2-channel video (2 internal channels/ Support ADAS and DMS)
Video Coding	H.265
Audio Compression	G.711
Audio	Built-in MIC
Loudspeaker	Built-in speaker, power: 3W, with adjustable volume, not less than 70 dB at 1 m distance

STORAGE & SENSOR

Six-axis Sensor	Harsh acceleration, Harsh deceleration, Harsh cornering
Environmental Light Sensor	Used for the in-cab camera, for day/night mode switching
Micro SD card	Micro SD card×2, (SDXC 32GB/64GB/128GB/256GB/512GB) (FTS Approved SD cards only)

LED INDICATOR STATUS



Status bar layout



Power Status Lights

Off: The device is not powered on.

Steady green: The device is powered normally.



Alarm Indicator

Off: The device is not currently uploading data.

Red flashes three times: The device is uploading data.



GPS Signal Indicator

Off: Normal

Steady red: No GPS, or module may be malfunctioning.

Red flash (once per second): GPS reception is poor.



Network Status Indicator

Off: The device is connected to the server normally.

Steady red: The device is not connected to the server.



Wi-Fi Status Indicator

Off: The device is in Disable or Client mode .

Steady green: The device is in AP mode.

Steady red: There is an issue with the Wi-Fi.



Recording Status Indicator

Off: The built-in or extended camera is operating normally

Steady red: The built-in camera stopped recording

(including privacy mode)/failed.

FEATURE COMPARISON CHART



Essential



Pro

Video recording	2-channel	Up to 6-channel*
Video resolution	1080P Road & Driver	1080P Road & Driver
Field of view (fov)	106° road / 170° driver	140° road / 170° driver
AI Driver Events	YES	YES
6-Axis Accelerometer	YES	YES
GPS	High precision GNSS	High precision GNSS w/ Dead-reckoning
Add-ons	None	Up to 4 external cameras and 1 LCD






* FC Pro 6-channel capability requires the FC Hub add-on module.

DRIVER EVENTS




ADAS FEATURES

-  Following distance warning
-  Forward collision warning
-  Lane departure
-  Rolling stop sign
-  Pedestrian warning




DMS FEATURES

-  Driver distracted
-  Driver fatigued
-  Driver smoking
-  Driver using cell phone
-  No seat belt




HARSH EVENTS

-  Harsh Cornering
-  Harsh Accelerating
-  Harsh Braking

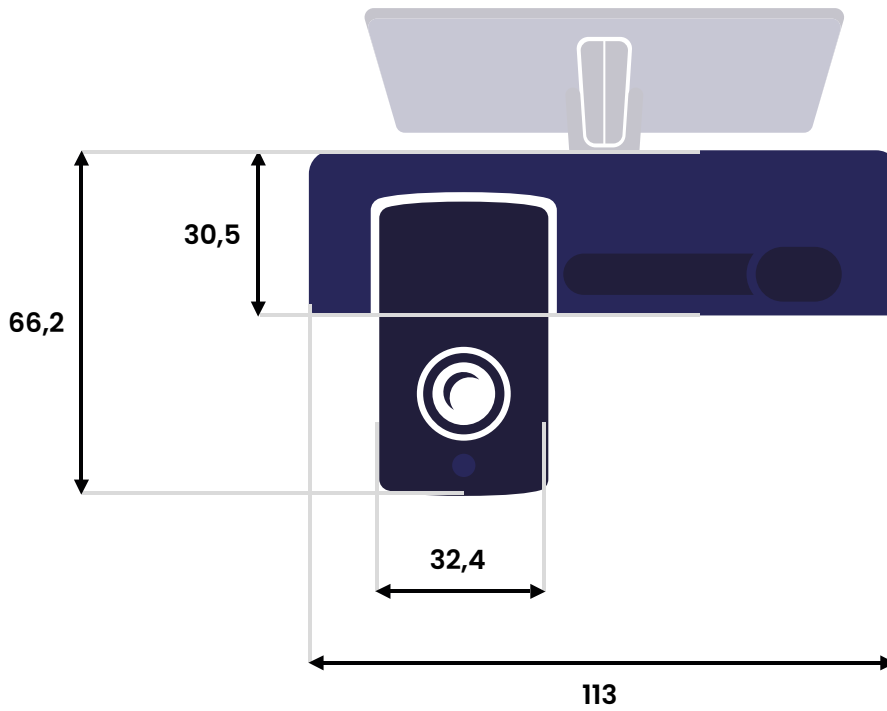
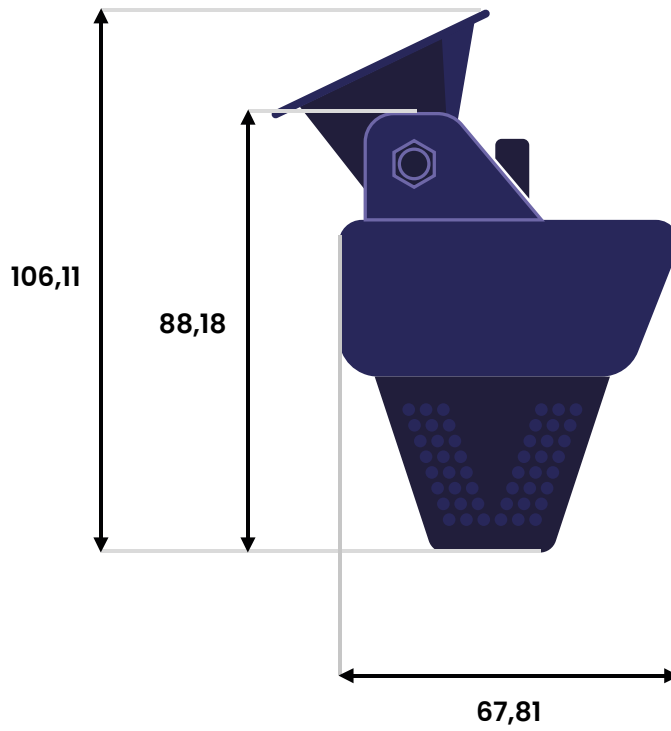
OTHER

-  No driver detected
-  SOS/PTO event
-  Camera covered

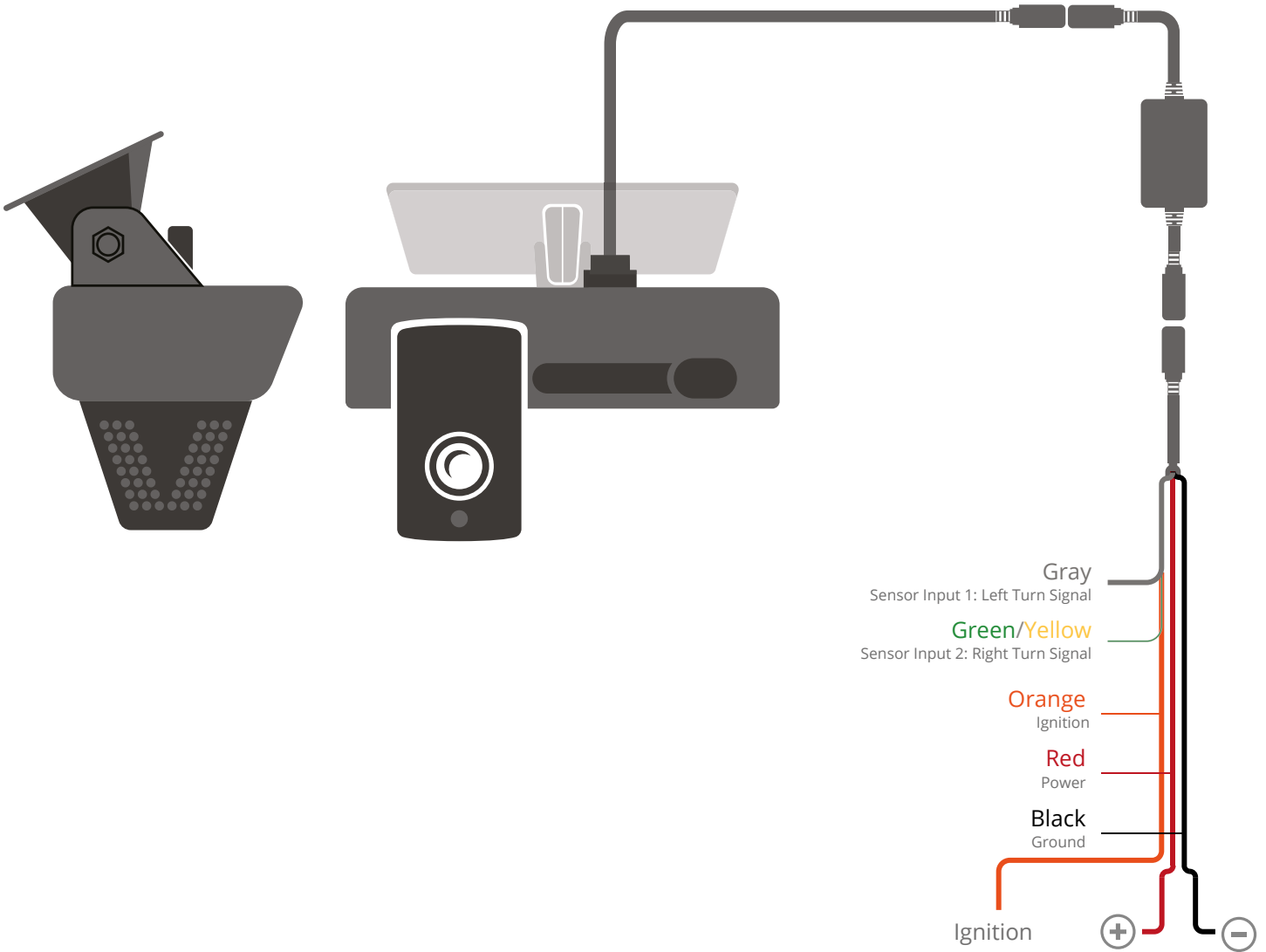
SYSTEM EVENTS

-  Low Voltage
-  Memory Error
-  Video Loss

DIMENSIONS (MM)

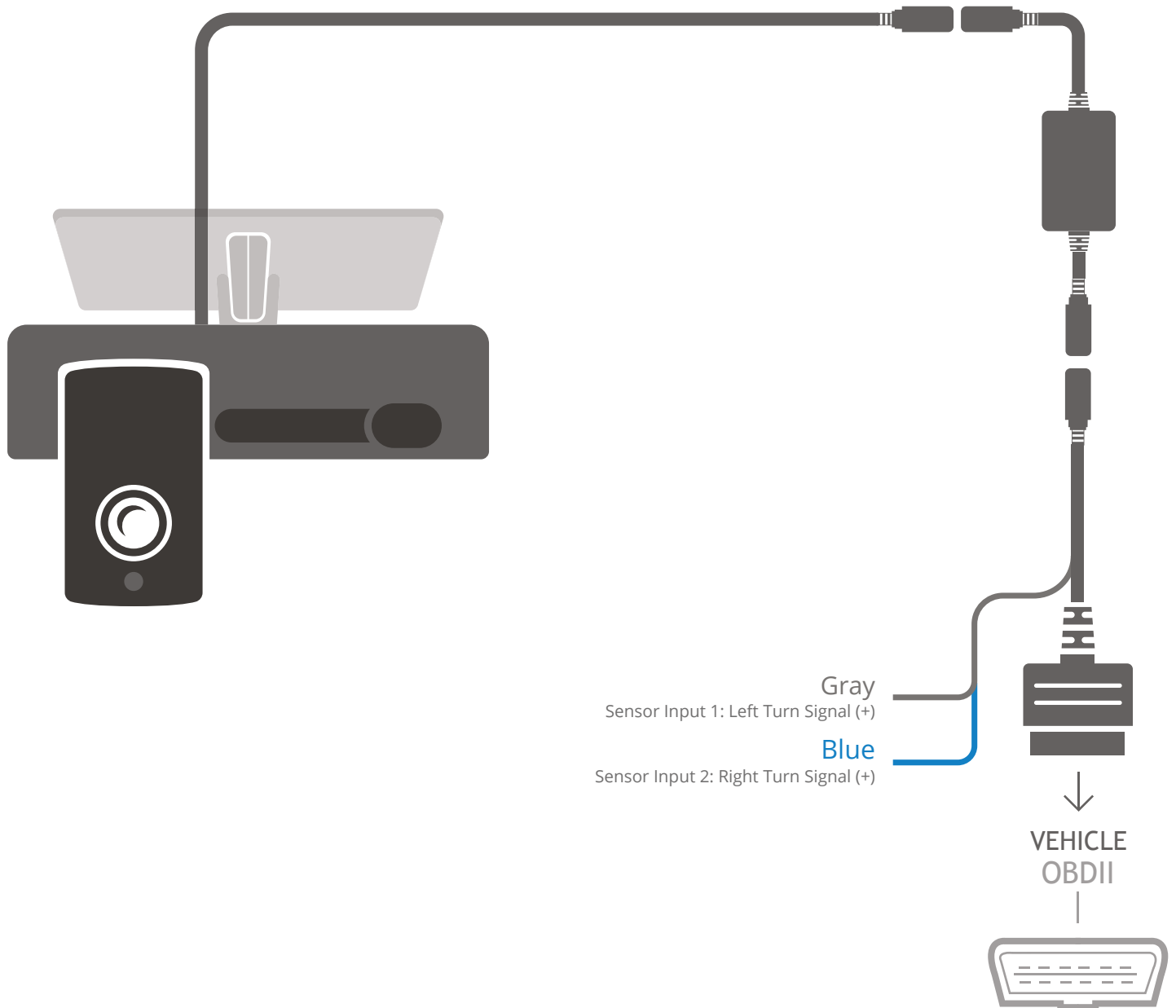


1. FleetCam Essential Hardwired



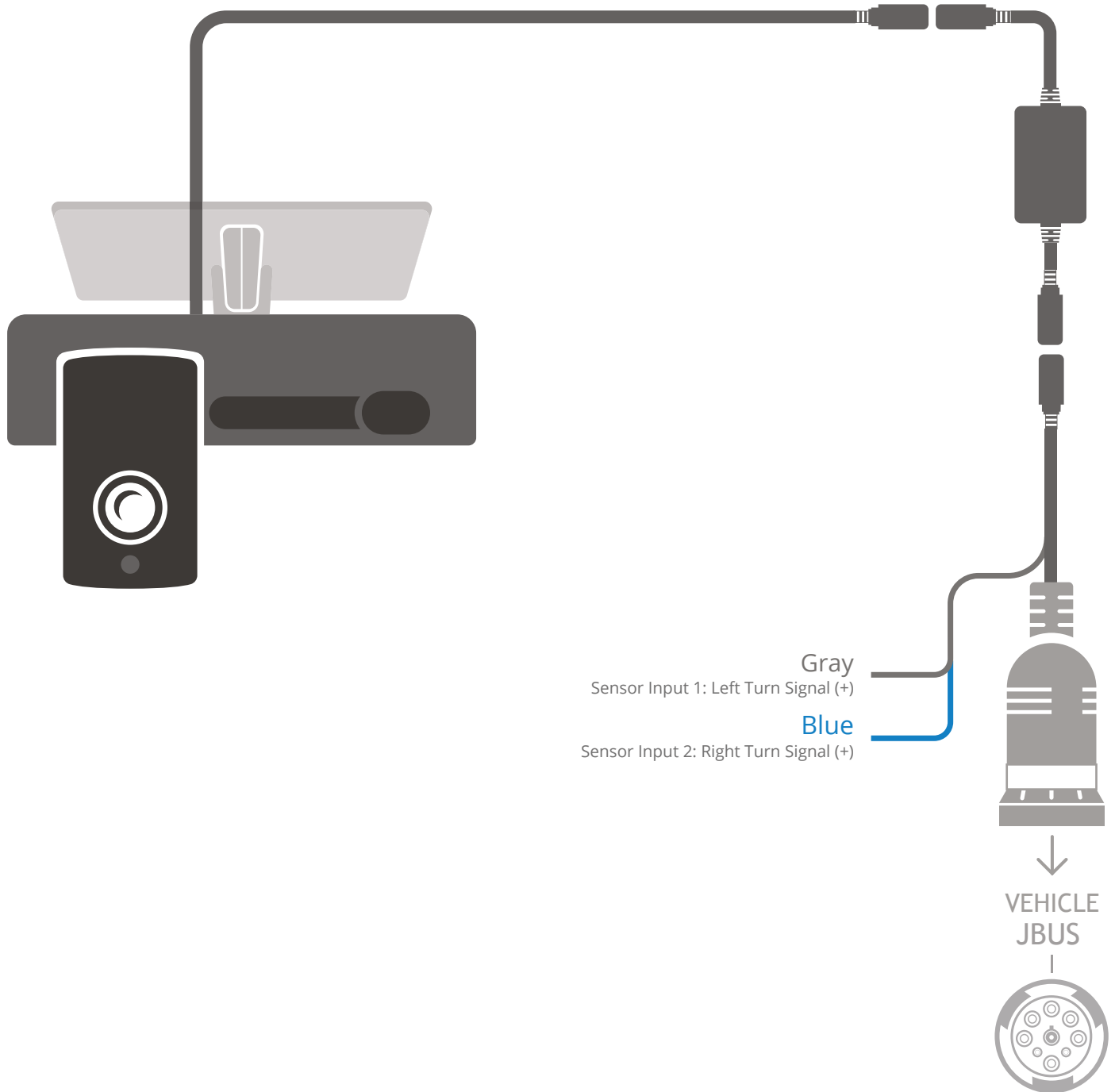
* - Optional accessory

2. FleetCam Essential OBDII



* - Optional accessory

3. FleetCam Essential JBus



* - Optional accessory