

Vulcan™ Series IPWSAICAM • IP Windshield Dual Camera with AI

Mounted to the inside of the vehicle's windshield, the IPWSAICAM Windshield Dual Camera with AI features two built-in, wide-angle lens cameras: one capturing an exterior view through the windshield and the other an interior view of the driver and passengers. With interior and exterior camera coverage plus built-in GPS, G-Force and AI detection features, the IPWSAICAM provides a definitive account of what really happens on the road. For driver privacy, this device comes equipped with a removable privacy cover for the interior camera lens as well as a privacy button that turns off the interior camera and microphone while the vehicle is at 0 mph.

CAMERA FEATURES

DIMENSIONS (WITH BRACKET)

- Height: 4.2 inches
- Width: 5.1 inches
- Depth: 2.7 inches
- Weight: 0.75 pounds

EXTERIOR FACING CAMERA

- Focal length: 2.8 mm
- 1/2.7" 5MP CMOS sensor
- Signal to noise ratio: $\geq 48\text{dB}$
- Records up to 5MP
- Minimum illumination:
Color: 0.05Lux/F1.2
- Shutter speed: 1/30s—1/100000s
- Field of view
 - Horizontal: 123°
 - Vertical: 65°
 - Depth: 140°

INTERIOR FACING CAMERA

- Focal length: 2.2 mm
- 1/2.9" 2MP CMOS sensor
- Signal to noise ratio: $\geq 45\text{dB}$
- Records up to 1080P
- Infrared
- Shutter speed: 1/30s—1/100000s
- Field of view
 - Horizontal: 151°
 - Vertical: 84°
 - Depth: 170°

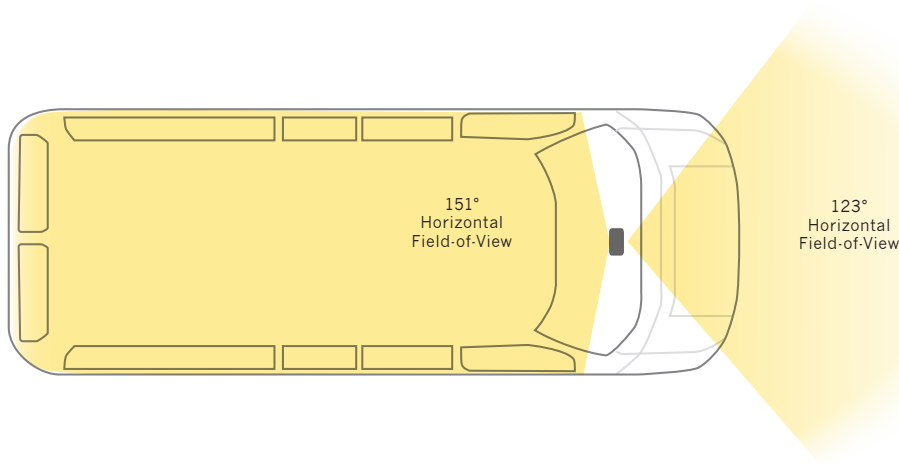
IMAGE CONTROL

- Digital Wide Dynamic Range
- Automatic exposure response algorithm
- Automatic white balance algorithm
- Automatic image noise resolution

LED INDICATORS

- Power: normal (green)
- Alarm: error detected (orange)
- GPS: abnormal (orange)
- Network: connection (blinking green)
- Error status: error detected (orange)

Recording: normal (green), failure (orange), no SD card detected (orange), privacy status (blinking orange)



AUDIO

- Built-in noise-gated microphone

INTERFACE

COMPRESSION FORMAT

- Video: H.265/H.264

GPS

- GPS L1 1575.42 MHz
- BDS B1 1561.098 MHz
- GALILEO E1B/C1
- GLONASS L1OF 1602 MHz
- SBAS: WAAS, EGNOS, MSAS, GAGAN

PORTS

- 10-pin rectangle port for camera connection cable (included)

DRIVER ACTION DETECTION

PRIVACY BUTTON

- Built-in
 - Record privacy: Press twice.
(Interior camera and microphone will stop recording while vehicle speed is 0 mph.)

ELECTRICAL & OPERATING REQUIREMENTS

OPERATING CONDITIONS

- Operating temperature:
-40°F ~ +158°F (-40°C ~ +70°C)
- Storage temperature:
-40°F ~ +185°F (-40°C ~ +85°C)
- 15% ~ 95% Humidity

POWER INPUT

- PON (12V DC), supported voltage: 12V

POWER CONSUMPTION

- <4W (day) <6W (night)

BUILT-IN CELLULAR MODULE

BUILT-IN GPS

BUILT-IN 6-AXIS G-FORCE SENSOR

AI FEATURES

- Phone detection
- Following too closely
- Seatbelt detection
- Collision warning
- Facial recognition

* AI features require connection to an operating recording unit.

