

DASHCAM ACCESSORY

BD2000DMS

FleetCam Pillar-Mounted DMS Camera AI Driver Monitoring Camera

The FleetCam® Pillar-Mounted DMS Camera is an AI-powered camera designed to enhance driver safety by continuously scanning for unsafe driving behaviors, including cell phone use, seat belt compliance, fatigue, smoking, and distracted driving. Featuring a 3mm lens and infrared sensors, this compact camera captures crystal-clear video in all lighting conditions.



AI-Powered DMS

IP53 Rated

Dual IR Illumination

70° Field of View

KEY FEATURES

- ✓ AI eye & facial monitoring detects true driver fatigue
- ✓ Sees through sunglasses for reliable eye-movement tracking
- ✓ Audiovisual alerts wake drivers when fatigue is detected
- ✓ Flags cell phone use, seat belt, smoking & distraction
- ✓ 70° horizontal field of view keeps driver centered in frame
- ✓ IP53-rated, tamper-resistant casing for commercial vehicles
- ✓ Built-in G-sensor auto-adjusts image for road conditions
- ✓ Compact design enables fast, easy installation
- ✓ Dual LED infrared illumination for all lighting conditions
- ✓ 3mm lens delivers crystal-clear video day and night

APPLICATIONS

Driver Fatigue Monitoring

Distracted Driving Detection

DMS Compliance

A-Pillar / Windshield-Mounted Installation

Fleet Safety Monitoring

Insurance & Liability Protection

BD2000DMS — Full Technical Specifications

CAMERA SPECIFICATION	
Sensor	1/4" 100MP CMOS
Lens	3mm M12-type, fixed aperture, F1.7
Resolution	1280(H) × 800(V) @ 20fps
Minimum Illumination	0 Lux (with infrared illumination)
Shutter Speed	1/30 Second – 1/5000 Second
Day/Night Shift Mode	Auto IR
Field of View	3mm HFOV 70°, VFOV 42°, DFOV 85.8°
Backlight Compensation	Support
S/N Ratio	≥ 48dB

PHYSICAL	
Dimensions	98mm (L) × 30mm (W) × 43mm (H)
Installation	A-pillar side-mounted, windshield-mounted, or vertical dashboard-mounted
Waterproof Grade	IP53
Temperature	-40°C to +70°C (-40°F to +158°F)
Humidity	0% to 90%
Power Supply	PON DC 9–18V
Power Consumption	Average PON < 2.4W

VIDEO FORMAT	
Video Compression	H.265
Image Resolution	Main stream 1280×800 @ 20fps; sub stream VGA 20fps (CIF or D1 optional); default bitrate 1Mbps
Output Bitrate	512Kbps – 3Mbps

DRIVER & SAFETY EVENTS

Cell Phone Use

Seat Belt Compliance

Fatigue Detection

Smoking Detection

Distracted Driving