

DHI-DAE-CDM5110

Driver Monitoring Camera



The DSM series is equipped with IR illumination, which is able to detect human eyes even under all-black environment or when drivers are wearing non-IR blocking sunglasses. It also adopts special strobe to protect the eyes. Connected with intelligent car-mount terminal to realize alarms of drowsy driving, distracted driving, calling while driving, no driver, wearing IR blocking sunglasses, smoking when driving and lens tampering.

System Overview

The camera adopts 1/4" CMOS image sensor and better luminance from the strobe to effectively avoid IR burn, which eliminates drivers' concerns that IR can harm the human eyes. The improved mounting bracket supports adjusting forward, backward, left and right, making it easier to install the camera on various platforms. Metal and plastic structure meets the heat dissipation requirements of the camera and reduces total weight at the same time.

Functions

Optimized Illumination

The camera adopts 1/4" CMOS image sensor and better luminance from the strobe to effectively avoid IR burn, which eliminates driver's concerns that IR can harm human eyes.

Multi-angle Adjustment

The improved mounting bracket supports adjusting forward, backward, left and right, making it easier to install the camera on various platforms.

Environmental Application

Dahua cameras operate in extreme environments, rated for use in temperatures from -30°C to $+70^{\circ}\text{C}$ with 90% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP54 Ingress Protection rating makes it suitable for demanding outdoor applications.

Scene

The camera is applicable for mounting on vehicles to connect with car-mount terminals, which detects and gives alarm of the driver status.

- 1/4" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs 50 Hz (1280 × 720)@25 fps;
Outputs 60 Hz (1280 × 720)@30 fps.
- 3D NR, BLC.
- 9 V–16 V DC, facilitates installation.
- IP54 rated.

Technical Specification

Camera

Image Sensor	1/4" CMOS
Max. Resolution	1280 (H) × 720 (V)
Electronic Shutter Speed	NTSC: 1/30 s–1/10,000 s PAL: 1/25 s–1/10,000 s
Minimum Illumination	0.1 lux
IR Distance	3 m (9.84 ft)
IR On/Off Control	Strobe
IR LED Number	1

Lens

Focal Length	4 mm
Aperture	F1.4
Field of View	H: 61.8° V: 37.5°
Iris Control	Fixed

Video

Resolution	720 p (1280 × 720)
Frame Rate	50 Hz: 1280 × 720@25 fps 60 Hz: 1280 × 720@30 fps
BLC	Yes
HLC	Yes
Gain Control	Auto
Noise Reduction	2D/3D

Certifications

Certification	CE; FCC
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General

Power Supply	9 V–16 V DC
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Power Consumption	< 2.5 W
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Environment

Operating Conditions	−30°C to +70°C (−22°F to +158°F)
Operating Humidity	< 90% (RH) (non-condensing)
Ingress Protection	IP54

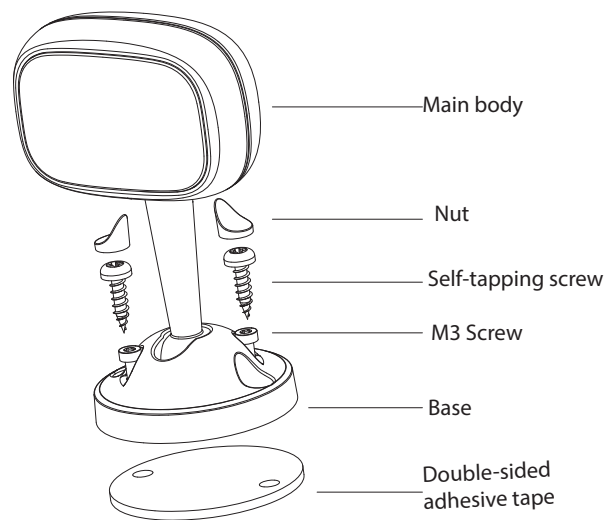
Construction

Package Dimensions	165.0 mm × 80.0 mm × 90.0 mm (6.50" × 3.15" × 3.54")
Product Dimensions	107.3 mm × 64.0 mm × 27.7 mm (4.22" × 2.52" × 1.09")
Net Weight	191.6 g (0.42 lb)
Gross Weight	237.0 g (0.52 lb)
Casing	Cover: Plastic Rear: Metal

Ordering Information

Type	Part Number	Description
DSM Camera	DHI-DAE-CDM5110-CYN	Driver monitoring camera (NTSC) with 4 cm mounting pole
	DHI-DAE-CDM5110-CYP	Driver monitoring camera (PAL) with 4 cm mounting pole
Accessories	Φ48-H2.3	Double-sided adhesive tape
	ST4 × 15	Self-tapping screw

Installation



Dimensions (mm[inch])

