DAE-CBS5210-H/V-CY
Blind Spot Detection Camera

Highlights

- 2MP 1/2.8"CMOS image sensor, excellent low illuminance, high image definition
- Built-in IR light with illumination distance up to 20 m
- Support video formats such as CVI, AHD, CVBS and TVI
- Supports rotation mode, DWDR, 3D NR, white balance
- IP67 and IK08 protection grade

System Overview

By working with AI MXVR, the BSD camera can detect human and vehicles in the blind spots during driving and give warnings in time, which can greatly reducing the probability of accidents. This active safety solution can be widely used in smart buses, logistics and other industries.

Functions

Large Field of View

143° super large horizontal field of view provides a wide field of vision, which can cover the driver's visual blind area.

Rotation Mode

Supports rotation mode to output video. If installed in the corridor, the video image can be rotated vertically to offer deeper coverage.

Rearview Mirror Installation

The camera can be installed in the right rearview mirror to provide the view of right blind area.

DWDR

Adopts industry-leading DWDR technology to obtain clear and detailed information even in the conditions of strong brightness contrast.

Protection (IP67, IK08)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

IK08: The enclosure can stand the punch for 3 times from a 1.7 kg hammer falling from a height of 30 cm (Impact energy is 5J).

Scene

It is used for blind area detection of large vehicles. Combined with the mobile video recorder, when pedestrians or vehicles enter the blind area, alarm will be triggered.

Technological Specification

Camera

IR On/Off Control	Automatic
Low electric level	Connect to the ground.
IR LEDs Number	1 (IR light)
IR Type	IR
Image sensor	1/2.8"CMOS
Electronic shutter	PAL: 1/25s–1/100, 000s NTSC: 1/30s–1/100, 000s
Lens angle	Vertical: -45°–45°
Effective Pixels	2MP
SNR	42dB
Fill Light Distance	20m
Max Resolution	1080P (1920 × 1080)
Minimum Illumination	0.02Lux/F2.0 30IRE, 0Lux IR on
WB	Auto/Manual
BLC	Support
Mirror	Support
WDR	DWDR
Day/Night Switch	ICR auto switch

Lens

Aperture Control	Fixed aperture
Min Photographic Distance	0.5m
Aperture	F1.9
Focal Length	2.0mm
Lens Mount	M12

Lens Type	Fixed focal
Field of view (FOV)	Horizontal: 143.2°; Vertical: 76.6°: Diagonal: 170.2°

Video

Frame rate	CVI PAL 1080P; 25fps, 720P@ 25fps; MJPEG: 1080P; 30fps, 720P@ 30fps
Gain control	Automatic
Resolution	1080P(1920×1080); 720P(1280×720)
Smart Illumination	Support
DORI distance	D: 49.7m; O: 19.9m; R: 9.9m; I: 5.0m
Video Format	PAL/NTSC
Video Type	CVI/TVI/AHD/CVBS
IR LED	Support
Image Adjustment	Color mode: standard, soft, vivid, warm and cold. Supports adjustments in between sharpness, brightness, contrast, saturation, gamma curve, 2D and 3D noise reduction.
Exposure Mode	Auto/manual/Regional exposure, Exposure Level: 0-15
Anti-flicker	Outdoor

Power

Power Supply	9V-16V DC
Power Consumption	< 5W

Port

Power	4-pin aviation port
Audio Input	Support

Environment

Storage temperature	-40°C to +60°C (-40°F to 140°F)
Operating Temperature	-40°C to +60°C (-40°F to 140°F)
Protection Grade	IP67
Operating Humidity	< 95% (non-condensing)

Structure

Packing Dimensions	155mm × 155mm × 135mm (6.10'' × 6.10'' ×5.31'')
Product Dimensions	90.0mm × 110.6mm × 65mm (3.54'' × 4.35'' ×2.56'') (with bracket)
Net Weight	0.372 kg (0.82 lb)
Casing Material	Metal

Dimensions (mm[inch])