

MC-1WM-F21-PA



1MP Double-lens HD-Coax Mobile IR Camera



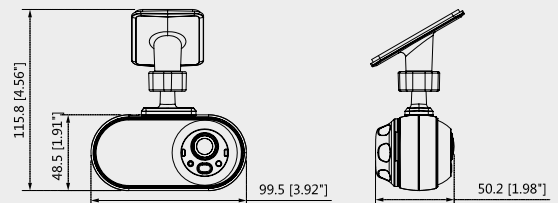
System Overview

Experience a 720P mobile video surveillance solution with the simplicity of analog infrastructure. The mobile camera is designed with a shock proof, compact case, which makes it convenient to install and adaptable to various applications. It offers a high quality image as well as a multi language OSD. In addition, the camera employs the strengths of HD-Coax to ensure real-time transmission.

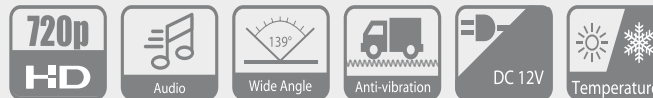
Features

- Max 30fps@720P
- HD and SD output switchable
- 2.1mm fixed lens
- Built-in Mic
- Max. IR length 3m, Smart IR
- DC12V

Dimensions(mm/inch)



Functions



Elaborate Design

For better adapting the applications for vehicles, the mobile camera is designed with micro-sized compact case, which minimizes the interference against on-going activities. Taking aesthetics requirements into consideration, the body and front face of the camera is all-black.

Shock-proof

Vibration is inevitable in mobile applications. In order to avoid image or connection failure, the hardware structure of the mobile camera is shock-proof with the certification of EN50155. Plus, the mobile camera adopts M12 aviation connector for stable connection with MCVR.

Simplicity

HD-COAX technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. The plug and play approach enables full HD video surveillance without the hassle of configuring a network. HD-COAX system can seamlessly upgrade the traditional analog system without replacing existing cabling.

4 Signals over 1 Coaxial Cable

HD-COAX Mobile Camera supports 4 signals to be transmitted over 1 cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HD-COAX camera to interact with the HCVR, such as sending control signal or triggering alarm.

* Audio input is available for some models of HD-COAX cameras.

Horizontal Mirror

For backward monitoring in a vehicle, the image of the mobile camera is horizontal mirrored by default, which makes the preview image and recording video same as the actual scene.

Smart IR

The camera is designed with array LED IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. The unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments. With working temperature range of -40 °C to +80 °C (-40 °F to +176 °F), the camera is designed for extreme temperature environments. Supporting ±25% input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

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Technical Specification

Camera

Image Sensor	1/2.7" CMOS
Effective Pixels	1280(H)×720(V), 1.3MP
Scanning System	Progressive
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s
Minimum Illumination	0.02Lux/F2.0,30IRE,0Lux IR on
S/N Ratio	More than 65dB
IR Distance(internal)	Up to 3m (9.8feet)
IR On/Off Control	Auto/Color/B/W
IR LEDs	1

Lens

Lens Type	Fixed lens / Fixed iris
Mount Type	Board-in
Focal Length	2.1mm (Rear) 2.8mm(Front)
Max Aperture	F2.0
Angle of View	H: 139° (Rear) H: 116° (Front)
Focus Control	N/A

DORI Distance

Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.

	DORI Definition	Distance
Detect	25px/m (8px/ft)	Front:37.3m(122.4ft) Rear:35.5m(116.5ft)
Observe	63px/m (19px/ft)	Front:14.9m(48.9ft) Rear:14.2m(46.6ft)
Recognize	125px/m (38px/ft)	Front:7.5m(24.6ft) Rear:7.1m(23.3ft)
Identify	250ppm (76px/ft)	Front:3.7m(12.1ft) Rear:3.5m(11.5ft)

Pan / Tilt / Rotation

Pan/Tilt/Rotation	Pan: 0° ~ 30° Tilt: 0° ~ 30° Rotation: 0° ~ 360°
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Video

Resolution	720P (1280×720)
Frame Rate	PAL:1280×720@50fps, 1280×720@25fps; NTSC:1280×720@60fps, 1280×720@30fps
Video Output	2-channel HDCVI high definition video output with aviation connector(Yellow:front camera/black:rear camera)

Day/Night	Front: Color / Rear: Electronic
OSD Menu	Multi-language
BLC Mode	BLC / HLC / DWDR
WDR	DWDR
Gain Control	AGC
Noise Reduction	2D
White Balance	Auto / Manual
Smart IR	Auto / Manual

Certifications

Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1) EN50155 (EN50121-3-2, IEC61373)
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Interface

Audio Interface	1-channel built-in Mic (Audio outputs in both 2-channel HDCVI videos)
Aviation Connector Interface	1-power 2-video ground 3-power ground 4-video

Electrical

Power Supply	12V DC ±25%
Power Consumption	Max 2.4W (12V DC, IR on)

Environmental

Operating Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH * Start up should be done at above -40°C (-40°F)
Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH
Ingress Protection & Vandal Resistance	N/A

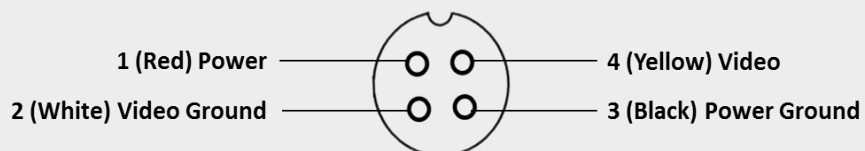
Construction

Casing	Plastic
Dimensions	115..8×99.5×50.2mm (4.56"×3.92"×1.98")
Weight	0.13kg (0.287lb)

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Aviation Connector



Installation

