

MD170 Day / Night Camera

Powerful. Super Compact. Outstanding Video Quality.



Key Features & Benefits

Measures 2.2" (5.6 cm) high x 2.7" (6.9 cm) base diameter and weighs less than .5lbs (181 g)

700 TVL color day/night camera

Supports the Sony 960H Wide Image Standard

6 IR LED's for illumination at night

Sony Super HAD CCD Image Sensor

Integrated microphone to capture audio

Vandal resistant metal housing

Cabling and connectors allow for easy installation and integration with Gatekeeper mobile DVR's

3D gimbal functionality allows image to be "Squared Up" when camera is mounted at an angle

The MD170 camera is a small 700 TVL color, day/night camera with 6 integrated IR LEDs designed to be used inside space confined vehicles. The camera's housing is metal and built to survive in rugged and vandal susceptible environments. Vibration and thermal tested, the MD170 camera is an excellent choice for both mobile and fixed environments.

Utilizing a Sony 1/3" CCD (Charge Coupled Device) imaging sensor and Sony DSP (Digital Signal Processor) the MD170 provides class leading image quality in both day and night lighting conditions. Also included is an integrated microphone that captures clear audio.

Generating a standard composite NTSC video signal, the MD170 camera is plug and play compatible with Gatekeepers camera cabling system and older Gatekeeper DVR's. The camera is available with 15', 30' or 60' camera cables.

The MD170 ball has no vent thus providing protection against water spray while maintaining an operating temperature range of -22°F to +131°F, (-30°C to +55°C)

Camera - Housing Features:

Integrated Microphone

The Gatekeeper MD- Series camera housing includes an integrated microphone allowing high quality audio to be captured at each camera.

Integrated IR

The integrated IR utilizes 6 infrared LED's to provide IR illumination at night. A sensor in the camera detects the ambient light and automatically turns on/off the IR LED's as needed.

3D Gimbal

The housing inherently implements a 3D gimbal design found in more expensive cameras. This allows the base to be mounted in almost any orientation while allowing the camera to be

Applications

School Buses

Transit

Transportation and Logistics

Law Enforcement

First Response

Taxi



Day Time - Crystal Clear Imaging



Early Morning - Low Lighting Conditions



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adjusted so that the image is correctly oriented.

Tamper Proof Adjustments

Not only is the camera constructed of metal but there are set screws that when tightened, prevents the camera aim from being tampered with. This is important for installation where the camera can be accessed, either due to low ceilings or accessible camera placement.

All Metal Housing

An all metal housing creates a vandal proof package that is resistant to physical damage.

90 Degree Aiming

The housing profile has been carefully designed so that the camera can be aimed 90° laterally and have a clear field of view. This is important for correct aiming when the camera is located at the front of a bus.

Tolerant to Installation Error

The MD - Series housing has been designed so that the camera ball cannot be positioned behind the cameras shroud thus reflecting infrared light back into the lens. This reduces the probability of installation error.

Sealed Design

The ball that houses the camera electronics has no vents thus making the camera resistant to water spray.

Vibration Damping

In order to help reduce camera vibration, a rubber mounting ring is supplied. The rubber ring is installed between the camera base and

the mounting surface. The rubber ring conforms to the camera base for easy alignment and quick installation.

Flexible Cable Routing and Mounting Options

The MD - Series camera is secured with 3 screws that are not accessible once the installation is complete. The camera's signal cable can be routed directly up through the camera base, so that it's not exposed. Alternatively, there are 3 cut outs in the base that allows the camera's signal cable to be routed out the side of the base. This is useful when the camera is mounted to a surface that is not accessible from the rear.

Internal IR Light Leakage Eliminated

On the front of the MD-Series camera is a flat lens that protects the camera lens from the environment. This flat lens is divided into two concentric circles. The outside circle allows the IR light to exit the camera. The inner circle allows the cameras imaging element to view the scene.

A cylindrical sleeve is attached to the flat lens, and delineates the outside and inside circle. This cylinder extends from the flat lens and surrounds the camera lens. This mechanical assembly eliminates internally reflected IR light. Some camera designs have no such mechanism, while other designs use a soft rubber boot that is intended to prevent internal reflected IR from entering the camera lens. In Gatekeeper's experience, a rubber boot can allow IR light to enter the lens and cause optical flare. This can be exasperated as shorter lens sizes are used. The cylinder shroud used in Gatekeeper's MD - Series cameras protects from internal reflected IRs still maintained, when shorter lenses is implemented.

Specifications

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Imaging Sensor	Sony Super HAD II, 1/3" CCD	IR	6 LED's (850nm) with integrated on/off sensor
Processor	Sony	Package	Gatekeepers M1 camera housing
Minimum Illumination	0.0 LUX (IR On)	Available Lenses	2.9 mm and 3.6 mm
Resolution	700 TVL	Voltage	12v nominal
Effective Pixels	976 (H) x 582 (V)	Power Consumption:	130mA with IR On
Video Output	1.0V P-P/75Ω, NTSC	Exterior Dimensions	2.2" (5.6 cm) high x 2.7" (6.9 cm) base diameter
S/N Ratio	≥52db (AGC Off)	Weight	.4 lbs (181 g)
Electronic Shutter	1/60 to 1/10,000	Operating Temperature	-22°F to +131°F (-30°C to +55°C)
Gamma Correction	0.45	Operating Humidity	Under 90% (Non-Condensing)
AGC	Auto		
BLC	Auto		
White Balance	Auto		
Audio	Yes - integrated mic and line driver		

Specifications subject to change without notice.