

OptiCAM™ Introduction

OptiCAM™ is a high-resolution security camera capable of transmitting 60 frame per second video through standard Category 5 cable using RJ45 connectors.

OptiCAM™ uses a high quality CMOS image sensor, and its compact size enables it to be mounted on table, wall, or ceiling. All signal and power is carried by one cable, with no external power supply required – making for fast and convenient installation.

**Important Safeguards and Warnings**

Prior to installation and use of this product, observe the following safeguards and warnings:

- Only operate this unit in accordance with these instructions!
- Always observe proper polarity, and be sure to use a regulated 12VDC power source! Failure to observe power specifications will void the factory warranty.
- Do not attempt to service the product, as there are no user-serviceable parts inside. Refer servicing to qualified service personnel.
- Refer to the instructions for installation and removing camera components.
- Handle OptiCAM™ with care. Improper handling or storage could damage the camera.
- Do not expose OptiCAM™ to moisture, or try to operate it in wet areas. Should OptiCAM™ become wet, immediately turn power off and refer servicing to qualified personnel.

- Never face OptiCAM™ towards the sun, even when not in use! Use caution when operating in the vicinity of spotlights or other bright lights and light reflecting objects.
- Do not operate OptiCAM™ beyond its temperature, humidity or power supply ratings. Use the camera under conditions where temperatures are within -5°C to $+45^{\circ}\text{C}$, and relative humidity is below 80% (non condensing).

ADEMCO reserves the right to change details and specifications without prior notice.

Selecting Mounting Location

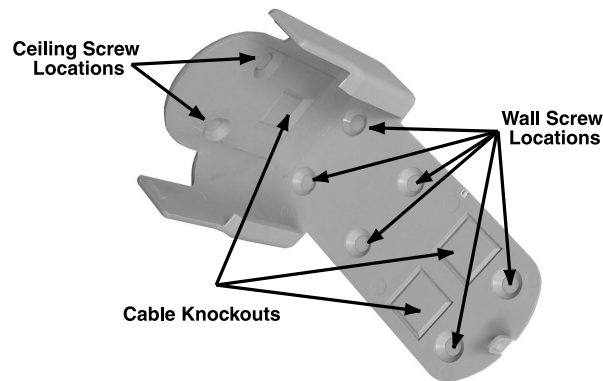
OptiCAM™ may be mounted on tabletop, wall or ceiling. Choose a location that:

- Provides the desired coverage area,
- Can be reached with a RJ-45 connection, and
- Does not exceed environmental ranges.

Installation

To install the camera:

1. Separate the bracket from the camera body.
2. Select the desired cable routing (left, right, top, or back). If using top or back wiring, punch out the appropriate knockout on the bracket, then route the cable through the bracket.



3. Select the appropriate mounting screw holes, then secure the bracket to the mounting surface.
4. Connect the RJ-45 connector to the socket on the rear of the camera body as shown.
5. If using left or right cabling, remove the appropriate knockout on the camera body and route the cable.

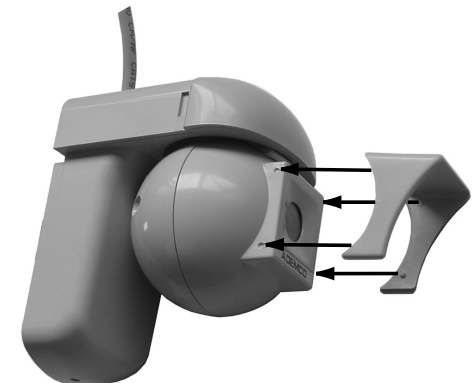


**Top, Left, & Right
Cabling Options**

6. Snap the camera body into the bracket and adjust for proper coverage area.

Sun Shield Installation

If desired, snap the Sun Shield (supplied) over the lens to prevent unwanted glare from entering OptiCAM™.



OptiCAM™ Specifications

Signal Format	NTSC
Scanning System	2:1 Interlacing
Scanning Freq.	H: 15.734 kHz V: 59.94 Hz
Image Sensor	1/3 Inch CMOS
Number of Pixels	510 x 492
Image Area	4.69 x 3.54 mm
White Balance	Automatic
Exposure	Automatic
Gamma Correction	0.5
Signal/Noise Ratio	Over 40 dB
Auto Elect. Exposure	1/60 ~ 1/5000 sec
Min. Illumination	< 3 lux @f1.4
Fixed Pattern Noise	< 0.03% Vp-p
Sensitivity	< 0.3 lux /f1.2 (3000K)
Video Output	Composite: 1.0Vp-p/75 ohm
Lens Type	3.6 mm normal type (V36092IG4)
Supply Voltage	DC +12V (+/- 20%)
Operating Current	< 300mW
Operating Temperature	0° ~ 40° C
Storage Temperature	-40° ~ 125° C
Operating Humidity	< RH 80%
Dimensions	32 x 32 mm

OptiCAM™ Lens Specifications

Sensing Area (inches)	1/3 inch
Full Field Angle	92°
Optical Distortion	-28.24%
TV distortion	-13.97%
Focal Length	3.6 mm
Back focal length	6.26 mm
Flange back length	5.96 mm
f/#	f2.0
Iris	Fixed
Focus Extension	50 cm ~ ∞
Diameter (Thread)	M12 x 0.5 pitch
Length	15.13 mm
Lens Construction	5 elements

OptiCAM™ Cable Specification

RJ45 (External System)		
1	+12VDC	Blue/White
2	+12VDC	Blue
3	Audio (not used)	NC
4	Gnd	Brown
5	Video	Orange
6	Gnd	Brown/White
7	NC	NC
8	NC	NC

OptiCAM™ Limited Warranty

Alarm Device Manufacturing Company, a Division of Pittway Corporation, and its divisions, subsidiaries and affiliates ("Seller"), 165 Eileen Way, Syosset, New York 11791, warrants its products to be in conformance with its own plans and specifications and to be free from defects in materials and workmanship under normal use and service for 36 months from date of manufacture unless the installation instructions or catalog sets forth a shorter period, in which case the shorter period shall apply. Seller's obligation shall be limited to repairing or replacing, at its option, free of charge for materials or labor, any product which is proved not in compliance with Seller's specifications or proves defective in materials or workmanship under normal use and service. Seller shall have no obligation under this Limited Warranty or otherwise if the product is altered or improperly repaired or serviced by anyone other than Ademco factory service. For warranty service, return product transportation prepaid, to ADEMCO Factory Service, 170 Michael Drive, Syosset, New York 11791.

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