

Product Specifications

AHD 1080p IR Dome Camera

CAM-AHD425

Release 2.0

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Change History:

Revision	Date	Author	Change List
Version 2.0	2016/12/22	Simon	4-in-1 (AHD/TVI/CVI/CVBS)
Version 1.0	2016/4/14	Simon	Initial release

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Reviewed by:	Jonas	Approved by:	Kent

1. PRODUCT DESCRIPTION



1080p AHD Camera

PLANET CAM-AHD425 camera is a high-resolution analog camera and able to work with AHD DVR for different applications. Users can easily upgrade their surveillance system in the existing coaxial infrastructure without having to overhaul it. Besides, the camera supports TVI/CVI/CVBS mode and the camera can comply with different DVRs like TVI or CVI DVR. Through the OSD control button, user is able to set up AHD/TVI/CVI/CVBS mode easily.

With Sony CMOS sensor and IR illuminators, the camera provides high-quality image under all lighting conditions. Besides, the CAM-AHD425 provides some significant features such as OSD control button, long-distance transmission and image quality enhancement. With these features, the camera brings us more efficiency and flexibility. The weatherproof housing protects the camera body against rain and dust, and ensures operation under extreme weather conditions, which makes it an ideal solution for indoor or outdoor applications, e.g., chain stores, communities, campuses, parking areas, garages, roads and public transportations.

Easy Adjustment via OSD

The CAM-AHD425 is equipped with an OSD (on-screen display) control button. The OSD of the device is easily accessible via a simple control attached to the power and video cord. The benefits of an OSD are that it provides a simple, efficient, and easily understandable way to change the various settings of the camera.

Image Quality Enhancement

Together with powerful image processing attributes like Wide Dynamic Range and Digital Noise Reduction technology, the camera is able to filter the intense backlight surrounding a subject and

remove noises from video signal. The result is that an extremely clear and exquisite picture quality can be produced even under any challenging lighting conditions.

Day & Night Functionality

To adapt to constantly changing lighting conditions, the CAM-AHD425 comes with a Sony sensor and 24 built-in IR illuminators, which enable the camera to provide color video when there is sufficient light, and black and white video in dark conditions. The camera is able to maintain clear images 24 hours a day.

IP65-rated Housing for Indoor and Outdoor Purposes

With the IP65-rated housing, the CAM-AHD425 is suitable for use in all weather conditions, be it rainy or dusty. No matter how extreme the weather is, it is able to operate as stably as possible. The CAM-AHD425 is indisputably the top choice for reliable and high-performance surveillance.

Long-distance Transmission

Based on the AHD technology, the video data of the CAM-AHD425 can be transmitted via a coaxial cable at the distance of up to 500 meters without any latency and losses.

2. PRODUCT FEATURES

➤ **Camera**

- 1/2.8" Sony 2MP CMOS sensor
- Fixed lens 3.6mm/F1.2
- 0 lux with built-in IR LED
- Maximum resolution up to 1920 x 1080
- 24 built-in IR LEDs for low light and long distance up to 25 meters

➤ **Video**

- Supports AHD/TVI/CVI/CVBS mode
- Auto Gain Control and White Balance
- Auto Electronic Shutter Time: 1/25s~1/45,000s
- S/N ratio of more than 52dB
- Image enhancement with 2DNR
- Digital Wide Dynamic Range
- Transmission distance up to 500 meters

➤ **Hardware**

- Video Output: 1 Vp-p composite video, 75 ohms
- IP65-certified protection
- Analog operation; easy to install; fast reaction

3. PRODUCT SPECIFICATIONS

3.1 COMPONENT SPECIFICATIONS

Image Sensor	1/2.8" SONY Exmor IMX323 CMOS Sensor, 2.0MP
DSP	FH8536E

3.2 FUNCTIONAL SPECIFICATIONS


Product	
Model	CAM-AHD425
Camera	
Sensor	Sony 1/2.8" 2MP CMOS
Effective Picture Elements	1920 (H) x 1080 (V) @ 30fps
System	PAL/NTSC
Lens Furnished	Fixed lens 3.6mm/F1.2
Minimum Illumination	0.01 lux @ F1.2, 0 lux with built-in IR LED
Video Output	1 Vp-p composite video, 75 ohms
Water Resistance	IP65
Power Supply	12V DC, 1A
Dimensions (W x D x H)	98 x 110 x 77 mm
LED	
IR LED	24 pcs Φ 5 LED
IR Project Distance	up to 25 meters
Video & Audio	
Hybrid Signal Output	AHD/TVI/CVI/CVBS mode
S/N Ratio	More than 52dB
White Balance	ATW/MWB
D-WDR	ON/OFF
Day and Night	Auto/Color/B/W/EXT
Gamma Characteristic	0.45
Exposure Mode	Globe/Center/BLC/FLC
Auto Electronic Shutter	1/25s~1/45,000s
Digital Noise Reduction	2D DNR
Defog	Auto/ON/OFF
AGC	Auto/Manual
Transmission Distance	Transmission over common coaxial 75-3 cable up to 300-500 meters
Environment	
Operating Temperature	-30 to 50 degrees C
Humidity	\leq 85%RH

3.3 PHYSICAL SPECIFICATIONS

Dimensions (W x D x H)	98 x 110 x 77mm
Weight	400g (gross weight)

➤ **Rear Panel**



Item	Description
Lens	Keep the lens clean for excellent video quality.
IR LED	Emits infrared light to provide light source in dark places.
Light Sensor	<p>Detects the illumination level or the place where this camera is installed, and switches IR LEDs on when it's required.</p> <div style="border: 1px solid black; padding: 5px;"> <p> Note When IR LEDs are switched on, this camera will switch to black and white video mode to enhance video quality. Do not cover light sensor or else this camera will work in black and white mode only.</p> </div>

3.4 ENVIRONMENTAL SPECIFICATIONS

Temperature

Operating	-30 ~ 50 degrees C
Storage	-20 ~ 50 degrees C

Operating Humidity

Operating	≤ 85%RH
Storage	≤ 85%RH

3.5 ELECTRICAL SPECIFICATION

Device Input Voltage	12V DC, 1A
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3.6 REGULATORY COMPLIANCE

CE, FCC, RoHS, WEEE

3.7 RELIABILITY

MTBF> 50,000hrs @ 25 degrees C

3.8 BASIC PACKAGING

- 1 x Camera Unit
- 1 x Quick Installation Guide
- 1 x Screw Package

3.9 PACKAGE INFORMATION

Dimensions (W x D x H)	120 x 120 x 95 mm
Weight	460g
Carton Dimensions (W x D x H)	432 x 350 x 482 mm
Carton Weight	15.78kg
Carton Unit	33 pcs in one carton