

30x Starlight IR PTZ Dome

2MP Indoor/Outdoor HDCVI Camera



HDCVI

- Max 60fps@720p and 30fps@1080p
- Starlight Technology for Dark Environments
- Powerful 30x Optical Zoom
- True WDR
- Built-in 2/1 Alarm in/out
- HD and SD Switchable
- IR Distance Up to 150m (492ft)
- Outdoor Rated IP66



System Overview

Experience full HD 1080p video with the simplicity of using existing coaxial infrastructure. Delivering full HD 1080p over a single coaxial cable provides the best of both worlds for users who want to maintain their existing analog infrastructure but want high definition images at a more affordable price. The sleek design makes the HDCVI 30x PTZ Dome camera ideal for residential or small to mid-size businesses where aesthetics are important.

Functions

Long Distance Transmission

The HDCVI Dome camera combines high definition resolution with the simplicity of coaxial infrastructure for an easy upgrade. HDCVI technology guarantees long-distance and real-time transmission without any loss of signal. It supports 1200m and 800m signal transmission for 720p and 1080p respectively via RG6 coaxial cable, and 800m and 500m for 720p and 1080p respectively via RG59 coaxial cable. With a CAT6 UTP cable, the transmission distance reaches up to 450m and 300m for 720p and 1080p respectively*.

*Actual results verified by real-scene testing in Dahua's test laboratory.

Starlight Technology

For challenging low-light applications, Dahua's Starlight models offer best-in-class light sensitivity capturing color details in low light down to 0.005 lux. These cameras overcome challenging lighting conditions by using a judicious selection of optical parameters to balance light throughout the image process. The result is stunningly clear images in very dark environments.

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Simplicity

HDCVI blends high quality images, affordability, and ease of use by utilizing traditional analog technology. Dahua HDCVI cameras are designed to make installation easy for a seamless upgrade from traditional analog without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

3 Signals over 1 Coaxial Cable

Dahua's patented HDCVI technology bridges the gap between low resolution analog and high definition IP for users who require higher quality video without upgrading to IP. HDCVI technology supports 3 signals (audio, video and data) to be transmitted simultaneously over 1 coaxial cable. The camera offers 1080p/720p high resolution video and communicates with HCVR through control signals.

Environmental

With a temperature range of -40°C ~ +70°C (-40°F ~ +158°F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP66 rating makes it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

Protection

Supporting ±25% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 8KV lightning rating provides protection against the camera and its structure from the effects of lightning.

IR Illumination

The camera's integrated IR illumination provides high performance in extreme low-light environments up to 150m (492ft).

Technical Specification

Camera

Image Sensor	1/2.8" Exmor CMOS
Effective Pixels	1920 H x 1080 V
Scanning System	Progressive
Electronic Shutter Speed	1/1 ~ 1/30,000s
Minimum Illumination	Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6; 0Lux (IR on)
S/N Ratio	More than 50dB
IR Distance	150m (492ft)
IR On/Off Control	Auto / Manual
IR LEDs	4

Lens

Lens Type	Motorized/ Auto Iris
Mount Type	Board-in
Focal Length	4.5mm ~ 135mm (30x Optical zoom)
Max Aperture	F1.6 ~ F5.0
Angle of View	H: 67.8° ~ 2.7°
Focus Control	Auto / Manual
Close Focus Distance	100mm ~ 1000mm

PTZ

Pan/Tilt Range	Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°, auto flip 180°
Manual Control Speed	Pan: 0.1° ~ 300° /s; Tilt: 0.1° ~ 200° /s
Preset Speed	Pan: 400° /s; Tilt: 300° /s
Presets	300
PTZ Mode	5 Pattern, 8 Tour, Auto Pan, Auto Scan
Speed Setup	Human-oriented focal length/ speed adaptation
Power up Action	Auto restore to previous PTZ and lens status after power failure
Idle Motion	Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period
Time Task	Auto activation of Preset/ Pan/ Scan/ Tour/ Pattern by preset-time
Protocol	DH-SD, Pelco-P/D (Auto Recognition)

Video

Resolution	30fps@1080p, 30/60fps@720p
Video Output	1-channel BNC HDCVI High Definition Video Output / CVBS Standard Definition Video Output (Switchable)
Day/Night	Auto (ICR) / Color / B/W
BLC Mode	BLC / HLC / WDR (120dB)
White Balance	Auto, ATW, Indoor, Outdoor, Manual
Gain Control	Auto / Manual
Noise Reduction	Ultra DNR (2D/3D)
Digital Zoom	16x
Flip	0°/180°
Privacy Masking	Up to 24 areas

Interface

Audio Interface	1 Input
RS485	1
Alarm	2/1 In/Out

Certifications

Certifications	FCC (SEFD1602154-B) UL (E234884-A54-UL)
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Electrical

Power Supply	AC24V/3A (±10%)
Power Consumption	Max. 13W, 25W (IR on)

Environmental

Operating Conditions	-40°C ~ +70°C (-40°F ~ +158°F) / Less than 90% RH *Start up should be done at above -35°C (-31°F)
Storage Conditions	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH
Ingress Protection	IP66

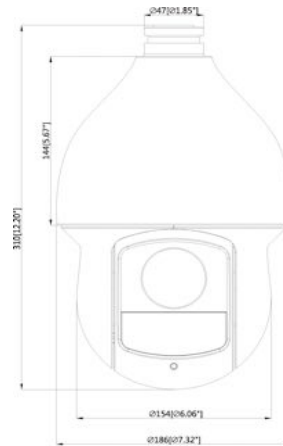
Construction

Casing	Metal+Plastic
Dimensions	Φ186mm x 309mm (Φ7.32" x 12.17")
Net Weight	3.7 kg (8.16 lbs)
Gross Weight	6.8kg (15.00lbs)

Ordering Information

Type	Part Number	Description
2MP Camera	DH-SD59A230IN-HC-S2	2MP HDCVI PTZ 30x Zoom, WDR, IP66
Accessories	PFB300S	Wall Mount Bracket (Included)
	PFA110	Mount Adapter (Included)
	Power Supply	Power Supply (Included)
	PFB300C	Ceiling Mount Bracket
	PFB303S	Parapet Mount Bracket
	PFA140	Junction Box
	PFA120	Water-proof Junction Box
	PFA150	Pole Mount Bracket
	PFA151	Pole Mount Bracket

Dimensions (mm/inch)



Accessories

Included:



PFB300S



PFA110



Power Supply

Optional:



PFB303S



PFB300C



PFA140



PFA120



PFA150



PFA151

Ceiling Mount	Ceiling Mount	Wall Mount
PFA110+PFB303S	PFA110+PFB300C	PFA110+PFB300S+PFA120
Pole Mount	Junction Mount	Corner Pole Mount
PFA110+PFB300S+PFA140	PFA110+PFB300S+PFA150	PFA110+PFB300S+PFA151