

High Speed HDCVI PTZ Dome

2 MP 30x Ultra-high Speed HDCVI PTZ Dome Camera



HDCVI

- Maximum 720p at 60 fps and 1080p at 30 fps
- Powerful 30x Optical Zoom
- True WDR
- Built-in 2/1 Alarm in/out
- HD and SD Switchable
- Outdoor Rated IP67, Vandal Resistant IK10
- On-screen Display



System Overview

The 2 MP HDCVI Pan/Tilt/Zoom (PTZ) camera with a 30x optical zoom uses a high-performance ISP and sensor to provide clear images with rich detail and true color rendition. The camera features 120 dB True WDR, suitable for applications with complex dynamic range, ensuring both the bright and dark areas are seen clearly. It also supports HD/SD dual-output and features a multi-language OSD for camera configuration.

Functions

Multi-language OSD

The OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white balance, privacy mask and motion detection and offers Chinese, English, French, German, Spanish, Italian, Japanese, Korean, Russian, Polish, and Portuguese variations.

Wide Dynamic Range

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

Simplicity

HDCVI technology seamlessly integrates traditional analog surveillance systems with upgraded, high-quality HD video, making it the best choice to protect security investments. The plug and play approach enables full HD video surveillance without the hassles of configuring a network.

Three Signals over One Coaxial Cable

HDCVI technology simultaneously transmits three signals (audio, video, and data) over a single coaxial cable. Dual-way data transmission allows the HDCVI camera to communicate with an HCVR to send control signals or to trigger alarms. Moreover, HDCVI technology supports PoC for construction flexibility.

Environmental

With a temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. The camera complies an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

Protection

Supporting $\pm 25\%$ 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.

Technical Specification

Camera

Image Sensor	1/2.8-in. STARVIS™ CMOS
Effective Pixels	1920(H) x 1080(V)
Scanning System	Progressive
Electronic Shutter Speed	1/1 s to 1/30,000 s
Minimum Illumination	Color: 0.005 Lux at F1.6 B/W: 0.0005 Lux at F1.6
S/N Ratio	More than 55 dB

Lens

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

PTZ

Pan/Tilt Range	Pan: 0° to 360° endless; Tilt: 0° to 90°, Auto flip 180°
Manual Control Speed	Pan: 0.1° to 350° /s; Tilt: 0.1° to 250° /s
Preset Speed	Pan: 500° /s; Tilt: 500° /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	1080p at 30 fps, 720p at 30/60 fps
Video Output	One (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	One (1) Input
RS485	One (1)
Alarm	Input: Two (2) Channels Output: One (1) Channel

Certifications

Safety	UL (E234884-A71-UL)
Electromagnetic Compatibility (EMC)	FCC (SEFD1602154-B)

Electrical

Power Supply	24 VAC, 1.5 A
Power Consumption	Maximum 23 W

Environmental

Operating Conditions	-40°C to +60°C (-40°F to +140°F), Less than 90% RH *Start up should be done at above -35°C (-31°F)
Storage Conditions	-30°C to +60°C (-22°F ~ +140°F), Less than 90% RH
Ingress Protection	IP67
Vandal Resistance	IK10

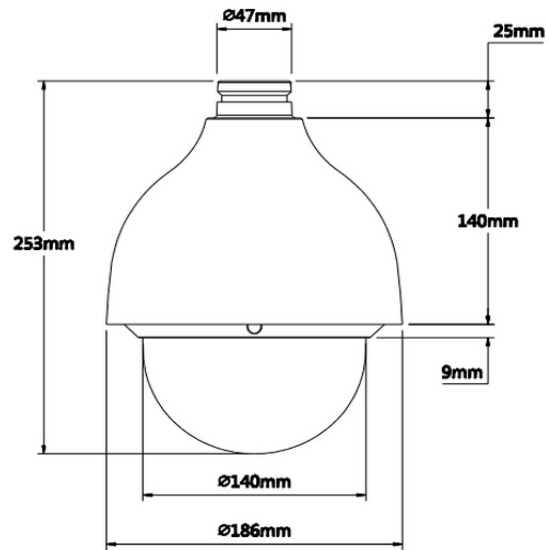
Construction

Casing	Metal
Dimensions	ø186.0 mm x 309.0 mm (ø 7.32 in. x 12.17 in.)
Net Weight	2.50 kg (5.51 lbs)
Gross Weight	4.50 kg (9.92 lbs)

Ordering Information

Type	Part Number	Description
2MP Camera	DH-SD50A230IN-HC-S2	2 MP HD PTZ 30x Zoom, WDR, IP67, IK10
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