

DS-2CD2H85FWD-IZS

8 MP WDR Varifocal Outdoor Network Turret Camera



Hikvision's DS-2CD2H85FWD-IZS provides important new technology for any security application. The H.265+ codec assures savings in bandwidth and storage. High quality and high resolution images are assured with the 8 MP (3840 x 2160) image sensor. EXIR 2.0 technology enhances night time performance.

Available models:
DS-2CD2H85FWD-IZS

H.265+

- 1/2.5" (8 MP) Progressive Scan CMOS
- 3840 x 2160 Resolution @ 20 fps
- EXIR 2.0 with up to 100 ft (30 m) IR Range
- 2.8 to 12 mm Motorized Lens
- H.265+, H.265, H.264+, H.264
- 120 dB WDR
- Audio and Alarm Input/Output
- MicroSD Card Slot Supports 128 GB
- Convenient Integrated Conduit Base
- IP67, IK10 Protection
- 12 VDC and PoE (802.3af)



Specifications

DS-2CD2H85FWD-IZS

Camera

Image Sensor	1/2.5" progressive scan CMOS
Minimum Illumination	Color: 0.01 lux @ (F1.2, AGC ON), 0 lux with IR; color: 0.014 lux @ (F1.4, AGC ON), 0 lux with IR
Shutter Time	1/3 s to 1/100,000 s
Slow Shutter	Supported
Day & Night	IR Cut Filter
Digital Noise Reduction	3D DNR
WDR	120dB
3-Axis Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°

Lens

Focal length	2.8 to 12 mm
Aperture	F1.4
FOV	Horizontal field of view: 115° to 35°; vertical field of view: 60° to 19°; diagonal field of view: 146° to 38.5°
Lens Mount	Ø14

IR

IR Range	Up to 100 ft (30 m)
Wavelength	850 nm

Compression Standard

Video Compression	Main stream: H.265+ / H.265 / H.264+ / H.264; sub stream: H.265 / H.264 / MJPEG; third stream: H.265 / H.264
H.264 Type	Main profile / high profile
H.265 Type	Main profile
Video Bit Rate	32 Kbps to 16 Mbps
Audio Compression	G.711 / G.722.1 / G.726 / MP2L2 / PCM
Audio Bit Rate	64 Kbps (G.711) / 16 Kbps (G.722.1) / 16 Kbps (G.726) / 32 to 192 Kbps (MP2L2)

Smart Features

Behavior Analysis	Line crossing detection, intrusion detection, unattended baggage detection, object removal detection
Face Detection	Supported
Region of Interest	Supports one fixed region for main stream and sub stream

Image

Maximum Resolution	3840 × 2160
Main Stream	20 fps (3840 × 2160), 30 fps (2944 × 1656, 2560 × 1440, 1920 × 1080, 1280 × 720)
Sub Stream	30 fps (640 × 360, 352 × 240)
Third Stream	30 fps (1280 × 720, 640 × 360, 352 × 240)
Image Enhancement	BLC/3D DNR
Image Setting	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser
Day/Night Switch	Auto / schedule / triggered by alarm in

Network

Network Storage	Supports microSD / SDHC / SDXC card (128 GB), local storage and NAS (NFS, SMB/CIFS), ANR
Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error, alarm input, alarm output
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour
General Function	One-key reset, anti-flicker, three streams, heartbeat, password protection, privacy mask, watermark, IP address filter
API	ONVIF (PROFILE S, PROFILE G), ISAPI
Simultaneous Live View	Up to 6 channels
User/Host	Up to 32 users; 3 levels: administrator, operator and user
Client	iVMS-4200, Hik-Connect, iVMS-5200
Web Browser	IE 8+, Chrome 31.0-44, Firefox 30.0-51, Safari 8.0+

Interface

Audio	1 input (line in, 3.5 mm), 1 output (3.5 mm), mono sound
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Alarm	1 input, 1 output (maximum 12 VDC, 30 mA)
Video Output	1Vp-p composite output (75 Ω/BNC)
On-Board storage	Built-in microSD / SDHC / SDXC slot, up to 128 GB
SVC	Supports H.264 and H.265 encoding
Reset Button	Supported







Audio

Environment Noise Filtering	Supported
Audio Sampling Rate	8 kHz / 16 kHz / 32 kHz / 44.1 kHz / 48 kHz

General

Operating Conditions	-22° F to 140° F (-30° C to 60° C)
Power Supply	12 VDC ± 25%, PoE (802.3af); terminal block for DC input
Power Consumption and Current	12 VDC, 0.92 A, maximum 11 W, PoE (802.3af, 36 to 57 V), 0.35 to 0.22 A, maximum 12.5 W
Protection Level	IP67, IK10, TVS 2000V lightning protection, surge protection and voltage transient protection
Material	Metal
Dimensions	Ø5.35" × 5.73" (Ø135.8 mm × 145.5 mm)
Weight	With package: 2.69 lbs (1.22 kg), camera: 2.34 lbs (1.06 kg)

Accessories

					
CPM Ceiling Pendant Mount	PC135H Pendant Cap	WML Wall Mount Long w/Back Box	PM Vertical Pole Mount	CM Corner Mount	AB135 15° Angled Base

Dimensions

