

DDZ42xxHD Camera Series

High-Speed HD PTZ Dome Camera, Resolution up to 2MP, 20×/30× Optical Zoom, Auto-focus, True Day/Night (ICR)



The **DDZ42xxHD** is a high-speed HD PTZ dome camera with **20×/30× optical zoom**, auto-focus, Smart Tracking and True Day/Night (ICR). It is equipped with a high-performance Pan-Tilt-Zoom mechanism and provides real-time high-definition video with up to 30 fps at a resolution of 2MP.

The **DDZ42xxHD** is available as indoor surface mount variant (conversion kit for in-ceiling mount applications included) or as IP67-rated outdoor variant.

Features

- 1/2.8" Progressive Scan CMOS
- High-speed PTZ dome
- **20×/30× optical zoom**
- 16× digital zoom
- Auto-focus with manual override
- Smart Tracking and Defog technology
- True Day/Night (ICR¹⁾)
- Digital WDR (Wide Dynamic Range)
- 3D Digital Noise Reduction (3D DNR)
- 3D intelligent positioning
- Resolution: 2MP (1920 × 1080), 1.3 MP (1280 × 960), 1280 × 720
- Frame rate up to 30fps at full resolution
- Video compression: H.264 / MJPEG / MPEG4
- Triple-Streaming support
- High-performance Pan-Tilt-Zoom mechanism
- 256 programmable preset positions
- 8 patrols (up to 32 presets per patrol)
- 4 patterns (recording time up to 10 minutes per pattern)
- Voltage supply (camera) with PoE+ or 24 V AC
- Two available mounting variants: indoor surface mount variant (incl. in-ceiling mounting kit) or outdoor variant
- IK10 and IP67 protection (outdoor variant)
- Easy and quick installation
- ONVIF compliant



Variants	
005323	DDZ4220HD Indoor High-speed HD PTZ dome camera, 2MP, 20× optical zoom, indoor surface mount variant (incl. in-ceiling mounting kit)
005313	DDZ4230HD Indoor High-speed HD PTZ dome camera, 2MP, 30× optical zoom, indoor surface mount variant (incl. in-ceiling mounting kit)
005324	DDZ4220HD Outdoor High-speed HD PTZ dome camera, 2MP, 20× optical zoom, outdoor variant
005314	DDZ4230HD Outdoor High-speed HD PTZ dome camera, 2MP, 30× optical zoom, outdoor variant

1) ICR = IR Cut Filter Removable

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Accessories

Options	
002192	 VMC Joystick (with 200 cm USB cable) Joystick module of the VMC-1 control panel as stand-alone device
004316	 PoE Midspan 30 W Midspan power supply unit, 1× Ethernet port, 10/100/1000Base-T, 802.3at, 802.3af, 30 W

Mounting accessories for weather-proof variant ²⁾

Options	
003847	 Junction Box DJB-115W Outdoor, white, for weather-proof housing
001115	 Mounting Plate Outdoor, white, for Wall Mount Bracket Outdoor (surface mounting), for Ceiling Mount Bracket (surface mounting), for Junction Box DJB-115W (corner and pole mounting)
001112	 Corner Mount Bracket Outdoor, white, for weather-proof housing
001111	 Pole Mount Bracket Outdoor, white, for weather-proof housing
001109	 Wall Mount Bracket Outdoor White, for weather-proof housing
001117	 Ceiling Mount Bracket Outdoor, white, for weather-proof housing
001116	 Roof Mount Bracket³⁾ Swan neck, outdoor, white, for weather-proof housing

²⁾ Note the documentation *DOMERA Montagezubehoer DJB-115W*.

³⁾ Not compatible with **Junction Box DJB-115W** (003847) and **Mounting Plate** (001115).

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Specifications

Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Effective Pixels	2 MP (1920×1080)
Min. Illumination	Color: 0.4 lux (F1.6, 1/30 sec, 50 IRE, AGC On), B/W: 0.03 lux (F1.6, 1/30 sec, 50 IRE, AGC On) Color: 0.05 lux (F1.6, 1/1 sec, 50 IRE, AGC On), B/W: 0.005 lux (F1.6, 1/1 sec, 50 IRE, AGC On)
White Balance	Auto / Manual / ATW / Indoor / Outdoor / Daylight lamp / Sodium lamp
AGC	Auto / Manual
S/N Ratio	≥ 50 dB
Digital Noise Reduction	3D DNR
Backlight Compensation (BLC)	Support
Highlight Compensation (HLC)	Support
Wide Dynamic Range	Digital WDR
Shutter Speed	50 Hz: 1–1/30,000 s; 60 Hz: 1–1/30,000 s
Day & Night	ICR (IR Cut Filter Removable)
Digital Zoom	16×
Privacy Masking	24 privacy masks programmable, optional multiple colors and mosaics
Focus Mode	Auto / Semiautomatic / Manual
Enhancement	Defog

Lens	20×	30×
Focal Length	4.7–94 mm (20× Optical Zoom)	4.3–129 mm (30× Optical Zoom)
Zoom Speed	Approx. 2.7 s (Optical Wide–Tele)	Approx. 3 s (Optical Wide–Tele)
Angle of View at Full Resolution	58.3–3.2 degree (Wide–Tele)	65.5–2.11 degree (Wide–Tele)
Min. Working Distance	10–1,500 mm (Wide–Tele)	10–1,500 mm (Wide–Tele)
Aperture Range	F1.6–F3.5	F1.6–F5.0

Pan and Tilt	
Smart Tracking	Support
Pan / Tilt Range	Pan: 360° endless; Tilt: –5° to 90° (Auto Flip)
Pan / Tilt Speed	Pan Manual Speed: 0.1°–300°/s, Pan Preset Speed: 540°/s Tilt Manual Speed: 0.1°–240°/s, Tilt Preset Speed: 400°/s
Proportional Zoom	Rotation speed can be adjusted automatically according to zoom multiples
Number of Presets	256
Patrol	8 patrols (up to 32 presets per patrol)
Pattern	4 patterns (recording time up to 10 minutes per pattern)
Power-off Memory	Support
Park Action	Preset / Patrol / Pattern / Pan scan / Tilt scan / Random scan / Frame scan / Panorama scan
PTZ Position Display	Support
Preset Freezing	Support
Scheduled Task	Preset / Patrol / Pattern / Pan scan / Tilt scan / Random scan / Frame scan / Panorama scan / Dome reboot / Self-test action / Alarm output

Alarm	
Alarm Input	7 inputs
Alarm Output	2 relay outputs, alarm response actions configurable
Alarm trigger	Motion detection, Audio Exception Detection, Dynamic analysis, Tampering alarm, Network disconnect, IP address conflict, Storage exception
Alarm Actions	Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client

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Specifications (Continuation)

Local Video and Audio	
Video Output	1.0V[p-p] / 75 Ω, NTSC (or PAL) composite, BNC
Audio Input	1× Mic In/Line In interface, Line input: 2–2.4V[p-p]; output impedance: 1kΩ, ±10%
Audio Output	1× Audio output interface, Line level impedance: 600 Ω

Network	
Ethernet	10Base-T / 100Base-TX, RJ45 connector
Frame Rate	50 Hz: 25 fps (1920×1080), 25 fps (1280×960), 25 fps (1280×720) 60 Hz: 30 fps (1920×1080), 30 fps (1280×960), 30 fps (1280×720)
Image Compression	H.264 / MJPEG / MPEG4, H.264 encoding with Baseline / Main / High profile
SVC (Scalable Video Coding)	Support
ROI (Region of Interest) Encoding	Support
Audio Compression	G.711μ-law / G.711a-law / G.726 / MP2L2
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE
Simultaneous Live View	Up to 10
Streaming	Triple-Streaming
SD Memory Card	Built-in micro SD/SDHC Slot, up to 32 GB, support manual / alarm / edge recording
User/Host Level	Up to 32 users, 3 Levels: Administrator, Operator and User
Security Measures	User authentication (ID and PW), Host authentication (MAC address), IP address filtering

Integration	
Application Programming	Open-ended API, ONVIF support, PSIA and CGI
Web Browser	IE 7+, Chrome 18+, Firefox 5.0+, Safari 5.02+, support multi-language

General	
RS485 Protocols	Pelco-P, Pelco-D, self-adaptive
Voltage Supply	PTZ camera: Power supply unit 1 with 24 V AC ±10% (50/60 Hz) or via PoE+ Fan/heater (outdoor housing): Power supply unit 2 with 24 V AC (50/60 Hz), max. 3 A
Power Consumption	Indoor variant: max. 25 W Outdoor variant: max. 25 W (max. 89 W with fan/heater)
Working Temperature	Indoor variant: –10°C to +50°C (14°F to 122°F) Outdoor variant: –40°C to +50°C (–40°F to 122°F)
Relative Humidity	90% RH or less, non-condensing
Protection Level	IK10 and IP67 (outdoor variant)
Dimensions	Indoor variant: Ø 183.4 × 243 mm (Ø 7.22" × 9.57") Ø 245 × 236 mm (Ø 9.65" × 9.29") (with in-ceiling mounting kit) Outdoor variant: Ø 258.5 × 330 mm (Ø 10.18" × 12.99")
Weight	Approx. 5 kg (11.02 lbs)

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Dimensions

