DDZ3036-WM/HS/IP DOMERA®

High-Speed IP Network PTZ Dome Camera, SD, 530 HTVL, 36× Optical Zoom, Auto-focus, Wide Dynamic Range (WDR), Day/Night

DOMERA®
IP

ONVIF

DIN
DIN EN 50130-4

DOMERA® HS is a modular high-speed PTZ dome camera system.

The high-resolution IP network PTZ dome camera DDZ3036-WM/HS/IP with 36× optical zoom, auto-focus and Wide Dynamic Range (WDR) provides real-time SD video (PAL/NTSC). It is mounted in a weather-proof housing and designed for outdoor use.

Features

- 1/4" EXview HAD CCD* image sensor
- Horizontal resolution: 530 HTVL
- Pure Digital Signal Processing
- High-speed PTZ dome
- 36× optical zoom
- 12× digital zoom
- ICR[1] function for Day/Night switching
- Comprehensive set of image optimization functions like AWB, AGC, BLC and Slow Shutter
- Auto-focus with manual override
- Wide Dynamic Range (WDR)[2]
- Resolution: SD (NTSC/PAL) up to Full D1
- Video compression: MPEG-2, MPEG-4, MJPEG
- Frame rate up to 30 fps

- Privacy Zone Masking (hiding/masking of up to 8 protected areas)
- Motion detection with selectable sensitivity
- Alarm notification via DaVid protocol, e-mail and FTP image upload
- 64 MB RAM video buffer
- High-performance Pan/Tilt/Zoom mechanism
- 248 programmable preset positions, 16 programmable scans
- 16 programmable tours (8 tours, 8 pattern)
- Vandal-resistant (IK10) weather-proof housing
- IP67 weather-proof housing (IP I/O interface integrated)
- Easy and quick installation
- ONVIF compliant
- DIN EN 50130-4 compliant

Variants	
000479.000476.401 NTSC: 000479.000476.402	**DDZ3036-WM/HS/IP DOMERA®** High-speed IP network PTZ dome camera, PAL, SD, 530 HTVL, 36× optical zoom, WDR, Day/Night, weather-proof variant

Options	
001109	**Wall Mount Bracket Outdoor** White, for weather-proof housing
001111	**Pole Mount Bracket** Outdoor, white, for weather-proof housing
001112	**Corner Mount Bracket** Outdoor, white, for weather-proof housing
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)
001116	**Roof Mount Bracket**[3] Swan neck, outdoor, white, for weather-proof housing
001117	**Ceiling Mount Bracket** Outdoor, white, for weather-proof housing
001431	**EvC-1** High-Speed Ethernet data transmission via coaxial cable
001717	**VSC-1** Video System Controller for controlling of PTZ dome cameras at DMS or DLS recorders
002192	**VMC Joystick (with 200 cm USB cable)** Joystick module of the VMC-1 control panel as stand-alone device

1) ICR = IR Cut Filter Removable
2) Provides enhanced colour reproduction and detail resolution even in scenes with a wide range of contrast and strong backlighting.
3) Not compatible with item number 003847

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Specifications

Sensor

Type	1/4" EXview HAD CCD image sensor
Effective pixels	PAL: 752 × 582 pixels (approx. 440000 pixels)
	NTSC: 768 × 494 pixels (approx. 380000 pixels)
Horizontal resolution	530 HTVL
Signal processing	Pure Digital Signal Processing
Image capture	Interlaced
Minimum illumination	ICR[4] Off: 1.4 lux (F1.6, PAL: 1/50 s or NTSC: 1/60 s)
	ICR On: 0.01 lux (F1.6, PAL: 1/3 s or NTSC: 1/4 s)
Signal to noise ratio (SNR)	More than 50 dB

Lens

Type	F1.6 – F4.5 / f = 3.4 mm – 122.4 mm (36× optical zoom)
Aperture control	Autoiris
Horizontal angle of view	Approx. 57.8° (wide end) to 1.7° (tele end)

Functions

Digital zoom	12× (432× with optical zoom)
Focus control	Auto-focus (AF sensitivity: Normal, Low), One-Push AF, Manual, AF near limit selectable
Wide Dynamic Range (WDR)	On / Off
Day/Night switching	ICR function
Black-and-white mode	Automatic, Manual
Electronic (slow) shutter	1/1 to 1/10000 s (22 steps)
Exposure control	Automatic (AE), Manual, Shutter Priority, Iris Priority, Bright
Brightness control	Automatic (ALC), Manual
Gain control	Automatic (AGC), Manual (−3 to +28 dB, 16 steps)
Digital Noise Reduction (DNR)	3D DNR
White balance (WB)	Auto (AWB), ATW (Auto Tracing White Balance), Indoor, Outdoor, One-Push, Manual
Backlight compensation (BLC)	On / Off
Flip function	Yes
Privacy Zone Masking	Hiding/Masking of up to 8 protected areas (Block, Video Off)
Motion detection (VMD)	With selectable sensitivity (5 levels)
Alarm notification	Via DaVid protocol (Dallmeier Video Protocol) to PGuard advance, e-mail, FTP image upload
Alarm trigger	Motion detection, video signal loss
Configuration IP I/O interface	With web browser
Configuration/control PTZ dome camera	Via OSD[5] with SMAVIA Viewing Client, Dallmeier recorder
Languages	English, German, French, Spanish, Italian

PTZ Functions

Pan / Tilt	360° continuous / 0° – 180°
	Variable speed: 0.1° – 105°/s (proportional to zoom)
	420°/s (with Turbo key pressed)
	Preset speed: 420°/s
Programmable presets	248 positions with camera status (16-character title)
Programmable scans	16 scans (including diagonal scans), 1 Auto Pan (360° continuous panning)
Programmable tours	8
Programmable pattern	8 (total up to 480 seconds)

Format and Encoding

Video standard	SDTV (PAL/NTSC)
Resolution	PAL: QCIF, CIF, 2CIF, Half D1, 4CIF, Full D1
	NTSC: QSIF, SIF, 2SIF, Half D1, 4SIF, Full D1
Video compression	MPEG-2, MPEG-4, MJPEG
Audio compression	MPEG-1 Layer 2
Frame rate	PAL: 6.25 / 12.5 / 25 fps
	NTSC: 7.5 / 15 / 30 fps
Video bit rate	0.25 – 8 Mbps, CBR (constant bit rate)
Audio bit rate	32 – 160 kbps
Transfer format	Progressive (full image)
Live streaming transmission method	Unicast, Multicast

4) ICR = IR Cut Filter Removable
5) OSD = On Screen Display

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Specifications

Interfaces

Audio IN (stereo)	1× 3.5 mm phone jack (Line IN)
Ethernet	1× RJ45, 10BASE-T-/100BASE-TX
Programming interface	Open platform for integration into third-party systems using API and ActiveX* (ONVIF compliant)

Protocols

Ethernet protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, FTP, SMTP, RTP, RTCP
PTZ control protocols	Dallmeier DCCP, Pelco D

Miscellaneous

Video buffer	64 MB RAM ring storage (pre- and post alarm, network failure compensation)

Electrical Data

Voltage supply	PTZ camera: power supply unit 1 with 24/28 V AC ±10% (50/60 Hz)
	Fan/heater: power supply unit 2 with 24 V AC (50/60 Hz), max. 3A
Power consumption	Max. 24 W (max. 88 W with fan/heater)

Mechanical Data

Dimensions	Approx. Ø 258.5 × H 330 mm (Ø 10.18 × H 12.99 inches)
Weight	Approx. 4425 g (9.76 lb)
Colour	White
Bubble	Clear
Vandal-resistant	Yes
IK protection	IK10 weather-proof housing, protection against external mechanical impacts (up to 20 joules)
IP rating	IP67 weather-proof housing (IP I/O interface integrated)

Fan/heater

Operation	On: ≤ +5°C (±3°C), Off: ≥ +10°C (±3°C); On: ≤ 41°F (±5°F), Off: ≥ 50°F (±5°F)

Environmental Conditions

Operating temperature	−40°C to +50°C (−40°F to 122°F) (minimum start-up temperature: −30°C/−22°F)
Relative humidity	0% − 90% RH, non-condensing

Approvals/Certifications

Type	CE, FCC, UL, ACA, CB, DIN EN 50130-4 compliant

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Dimensions

147 mm (5.79")

59 mm (2.32")

184.50 mm (7.26")

86.50 mm (3.41")

167 mm (6.57")

258.50 mm (10.18")