



**DS-2DM1-612X/602X IP Speed Dome  
Technical Manual**

## Notices

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Please send any comments regarding the documentation to:  
[overseabusiness@hikvision.com](mailto:overseabusiness@hikvision.com)

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## 1. Key Features

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- High Performance Sony CCD
- 20°/s Pan Preset Speed and 15°/s Tilt Preset Sp0EED
- 0.3-20°/s Manual Pan Speed and 0.85-15°/s Manual Tilt Speed
- Park Action: Start to Call Preset / Patrol / Auto Scan, after a Defined Time of Inactivity
- Parameter Restore: PTZ & Lens Status after Reboot
- Proportional Pan / Tilt: Continually Decreases Pan / Tilt Speeds, in Proportion to Depth of Zoom
- Programmable Limit Stops for Auto Scan / Manual Models
- Programmable Zoom Speeds
- Built-in Menu System for Setup of Programmable Functions
- On-Screen Compass, Pan, Tilt and Zoom Display
- Support Mouse Drag and Zoom
- Alarm I/O: 1 Channel Input and 1 Channel Relay Output
- Alarm Actions: 200 Presets, 8 Patrols, 4 Patterns, Auto Scan, Alarm Output, SD Memory Recording and Notification on PC Client
- Resume after Alarm: Allow the Dome Return to Previous State after Alarm Acknowledgement
- Built-in Surge Protection and Limited Lightning Protection
- Water and Dust Resistance: IP66, for Outdoor Dome
- Working Temperature -30°C ~ 60°C (Outdoor Models) or -10°C ~50°C (Indoor Models)

## 2. Specifications

Parameter		DS-2DM1-612X DS-2DM1-602X
Camera	Image Sensor	1/4 Inch Sony Super HAD CCD
	Effective Pixels	PAL: 752 (H)×582 (V) NTSC: 768 (H)×494 (V)
	Horizontal Resolution	480TVL
	Signal System	NTSC / PAL
	Min. Illumination	0.1Lux / F1.6
	White Balance	Auto / ATW / Indoor / Outdoor
	AGC	Auto / Manual
	S/N Ratio	Better than 50dB
	BLC	ON / OFF
	Shutter	N: 1/60~1/10,000s (16 steps), P: 1/50~1/10,000s (16 steps)
	Day & Night	Electronic
	Privacy Blank	---
	Digital Zoom	---
	Auto Focus	Auto / Manual
Lens	Focal Length	3.9-85.8mm, 22X
	Zoom Speed	3.7s (Optical, WIDE-TELE )
	Angular of View	51.2°-4.2 ° (WIDE-TELE )
	Min. Working Distance	10mm—1000mm
	Aperture Range	F1.6-F3.7
Pan and Tilt	Pan Range	360° endless
	Pan Speed	Manual: approx. 0.3°/s-20°/s Preset: up to approx. 20°/s
	Tilt Range	0°~90°

	Tilt Speed	Manual: approx. 0.85°~15°/s Preset: up to approx. 15°/s
	Proportional Pan / Tilt Control	YES
	Number of Presets	200
	Auto Mode	OFF / Preset / Patrol / Pattern / Auto Scan / Random Scan / Frame Scan
	Patrols	8
	Patterns	1 / 2 / 3 / 4
	Freeze Frame	Freeze Frame during Preset.
	Parameter Restore	Go to the speed dome last status after reboot
	Park Action	Trigger Action: Preset / Patrol / Auto Scan, after a defined time of inactivity
	PTZ Position Display	ON / OFF
<b>Network</b>	Ethernet	10Base-T / 100Base-TX, RJ45 connector
	Image Resolution	PAL: 704×576, NTSC: 704×480
	Frame Rate	25fps (704×576), 30fps (704×480)
	Image Compression	H.264
	Audio Compression	OggVorbis / 16kbps
	Audio Mode	OFF / Audio input / Audio output
	Protocols	TCP/IP, HTTP, DHCP, DNS, RTP/RTCP, PPPoE (FTP, SMTP, NTP, SNMP addible)
	No. of Simultaneous Users	Up to 6 users
	Dual Streams	Support Dual Streams Simultaneously
	Mini SD Memory Card	Manual REC / Alarm REC. Compatible SDHC Standard Cards
	User / Host Level	3 Levels: Administrator, Camera control, Live only
	Security Measures	User authentication (ID and PW), Host authentication (MAC address)
<b>Client GUI</b>	Camera Control	Pan/Tilt, Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode.
	Camera Title	Up to 18 characters
	Menu Language	English, Chinese
	Clock Display	Time: Week: Date, 6 formats on the Client
<b>Alarm</b>	Alarm Input	1 channel input
	Alarm Output	1 channel output, alarm linkage is configurable
	Alarm Actions	Preset 1 to 200, Patrol 1 to 8, Auto Scan 1 to 4, SD card recording, Terminal output, Notification on Client.
<b>Input / Output</b>	Monitor Output	1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC
	Microphone Input	Mic. In (Applicable microphone; Plug-in power type)

		2-2.4V[p-p], Input impedance: 1K $\Omega$ ±10%
	Audio Output	Audio out, Line level
<b>General</b>	Menu Language	English, Chinese
	RS-485 Protocols	HIKVISION, PELCO-P, PELCO-D (addible), self-adaptive
	Power Supply	24VAC (12VDC option)
	Power Consumption	12W (50W Heater ON, Except indoor dome)
	Working Temperature / Humidity	.-30°C ~ 60°C (outdoor) / -10°C ~ 50°C (indoor), 90% or less (without condensation)
	Water and Dust Resistance	IP66 standard compatible (Just for Outdoor dome), TVS 3000V limited lightning protection
	Dimensions	6 inch, $\Phi$ 243 (mm)×287 (mm)
	Weight (approx.)	5kg

## 3. Dimension

