



DS-2DF1-614X/604X Network Speed Dome Technical Manual





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1. Key Features

- Sony EXview CCD
- ±0.1° Preset Accuracy
- 400°/s Pan Preset Speed and 150°/s Tilt Preset Speed
- 0.3-300°/s Manual Pan Speed and 0.5-90°/s Manual Tilt Speed
- Park Action: Start to Call Preset / Patrol / Pattern / Auto Scan / Random Scan / Frame Scan, after a Defined Time of Inactivity
- Parameter Restore: PTZ & Lens Status after Reboot
- Patterns: Up to 4, On-Screen, User-defined Programmable Patterns; Including Pan, Tilt, Zoom and Preset Functions
- Proportional Pan / Tilt: Continually Decreases Pan / Tilt Speeds, in Proportion to Depth of Zoom
- Freeze Frame between Presets
- Programmable Zoom Speeds
- Variable Scan Speed: Scan Speed Can Be Programmable between 1 to 40°/sec
- Privacy Blank: Up to 4 Zones Masked Simultaneously in One Image
- Programmable Limit Stops for Auto / Random Scan / Frame Scan / Manual Modes
- Built-in Menu System for Setup of Programmable Functions
- On-Screen Compass, Pan ,Tilt and Zoom Display
- Alarm I/O: 2 Channels input and 2 Channels Relay output
- Alarm Actions: 200 Presets, 8 Patrols, 4 Patterns, Auto Scan, Alarm output, SD Memory Recording and Notification on PC Client, Alarms can be Individually Programmed for 3 Priority Levels
- Resume after Alarm: Allow the Dome Return to Previous State after Alarm Acknowledgement
- Support Mouse Drag and Zoom
- Fiber Connector Optional
- Built-in Surge Protection and Limited Lightning Protection
- Water and Dust Resistance: IP66, for Outdoor Dome
- Working Temperature $-30^{\circ}\text{C} \sim 60^{\circ}\text{C}$ (Outdoor Models) or $-10^{\circ}\text{C} \sim 50^{\circ}\text{C}$ (Indoor Models)



2. Specifications

		DS-2DF1-614X
Parameter		DS-2DF1-604X
Camera	Image Sensor	1/4 inch Sony Super HAD CCD
		PAL: 752 (H)×582 (V)
	Effective Pixels	NTSC: 768 (H)×494 (V)
		480(Color)
	Horizontal Resolution	520(B/W)
	Signal System	NTSC / PAL
		0.2Lux / F1.6 (Color)
	Min. Illumination	0.02Lux / F1.6 (B/W)
	White Balance	ATW / Manual
	AGC	Auto / Manual
	S/N Ratio	Better than 50dB
	BLC	ON / OFF
		N: 1/60~1/10,000s (16 steps),
	Electronic Shutter	P: 1/50~1/10,000s (16 steps)
	Day & Night	ICR
	Digital Zoom	
	Privacy Blank	
	Auto Focus	Auto / Manual
Lens	Focal Length	3.84-88.4mm, 23x zoom
	Zoom Speed	Approx.3.3sec (Optical WIDE-TELE)
	Angular of View	52.2 degree (WIDE end) to 2.36 degree (TELE end)
	Min. Working Distance	1200mm
	Aperture Range	F1.6-F4.5
Pan and	Pan Range	360° endless
Tilt		Manual: approx. 0.3°/s-160°/s or 0.3°/s-220°/s, 0.3°/s-300°/s,
		Programmable in Menu
	Pan Speed	Preset: up to approx. 400°/s
	Tilt Range	0°~90° (Auto flip)
		Manual: approx. 0.5°/s-40°/s or 0.5°/s-60°/s, 0.5°/s-90°/s, Programmable
		in Menu
	Tilt Speed	Preset: up to approx. 150°/s



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	Proportional Pan/Tilt	
	Control	YES
	Number of Presets	200
	Auto Modes	OFF / Preset / Patrol / Pattern / Auto Scan / Random Scan / Frame Scan
	Patrols	1/2/3/4/5/6/7/8
	Patterns	1/2/3/4
	Freeze Frame	Freeze Frame during Preset (Just for DS-2DF1-616 / 606X)
	Auto Flip	YES
	Parameter Restore	Go to the speed dome last status after reboot
		Start to Call Preset / Patrol / Pattern / Auto Scan / Random Scan / Frame
	Park Actions	Scan, after a Defined Time of Inactivity
	PTZ Position Display	ON / OFF
Network	Ethernet	10Base-T / 100Base-TX, RJ45 connector (Fiber Connector Option)
	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
		TCP/IP, HTTP, DHCP, DNS, RTP / RTCP, PPPOE (FTP, SMTP, NTP, SNMP
	Protocols	addible)
	No. of Simultaneous	
	Users	Up to 6 users
	Dual Streams	Support dual streams simultaneously
	Mini SD Memory	Manual REC / Alarm REC.
	Card	Compatible SDHC Standard Cards
	User/Host Level	3 Levels: Administrator, Camera control, Live only
		User authentication (ID and PW),
	Security Measures	Host authentication (MAC address)
Client GUI		Pan / Tilt, Zoom, Focus, Click centering, Drag zoom, Iris, Preset position cal
	Camera Control	and program, Auto mode.
	Camera Title	Up to 18 characters
	Clock Display	Time: Week: Date, 6 formats on the Client
Alarm	Alarm Input	2 channels inputs, priority is configurable
	Alarm Output	2 channels relay outputs, alarm linkage is configurable
		Preset 1 ~ 200, Patrol 1 ~ 8, Pattern 1 ~ 4, SD card recording, Terminal
	Alarm Actions	output, Notification on Client.
Input/	Monitor Output	1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC
Output		Mic. In (Applicable microphone; Plug-in power type)
	Microphone Input	2-2.4V[p-p], Input impedance: $1K\Omega\pm10\%$



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Audio Output	Audio out, Line level
Menu Language	English, Chinese
RS-485 Protocols	HIKVISION, PELCO-P, PELCO-D (addible), self-adaptive
Power Supply	24VAC (12VDC option)
Power Consumption	30W max (Heater ON)
Working	
Temperature /	30 $^{\circ}$ C $^{\sim}$ 60 $^{\circ}$ C (outdoor) / -10 $^{\circ}$ C $^{\sim}$ 50 $^{\circ}$ C (indoor)
Humidity	90% or less (without condensation)
Water and Dust	IP66 standard compatible (Just for Outdoor dome)
Resistance	TVS 3000Vlimited lightning protection
Dimensions	6 inch, Φ243 (mm)×287 (mm)
Weight (approx.)	5kg
	Menu Language RS-485 Protocols Power Supply Power Consumption Working Temperature / Humidity Water and Dust Resistance Dimensions



3. Dimension

