DS-2DF1-613X/603X Network Speed Dome

Technical Manual

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Contents

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 24 Zones, 8 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℃ ~ 60℃ (Outdoor Models) or -10℃ ~50℃ (Indoor Models)

2. Specifications

Parameter		DS-2DF1-613X DS-2DF1-603X
Camera	Image Sensor	1/4 Inch SONY EXVIEW CCD
	Effective Pixels	PAL: 752 (H)×582 (V) NTSC: 768 (H)×494 (V)
	Horizontal Resolution	480TVL
	Signal System	NTSC / PAL
	Min. Illumination	0.7Lux / F1.4 (Color) 0.01Lux / F1.4 (B/W)
	White Balance	ATW / Manual
	AGC	Auto / Manual
	S/N Ratio	Better than 50dB
	BLC	ON / OFF
	Electronic Shutter	1/1~1/10,000s (22 steps)
	Day & Night	ICR
	Digital Zoom	Up to 12x
	Privacy Blank	Up to 24 zones, while maximum 8 zones masked simultaneously in one image
	Auto Focus	Auto / Manual
Lens	Focal Length	4.1-73.8mm, 18x zoom
	Zoom Speed	Approx. 2.1sec (Optical WIDE-TELE)
	Angular of View	48 degree (WIDE end) to 2.8 degree (TELE end)
	Min. Working Distance	290mm (WIDE end), 800mm (TELE end)
	Aperture Range	F1.4-F3.0
Pan and Tilt	Pan Range	360° endless
	Pan Speed	Manual: approx. 0.3°/s-160°/s or 0.3°/s-220°/s, 0.3°/s-300°/s, Programmable in Menu Preset: up to approx. 400°/s
	Tilt Range	0°~90° (Auto flip)
	Tilt Speed	Manual: approx. 0.5°/s-40°/s or 0.5°/s-60°/s, 0.5°/s-90°/s, Programmable in Menu Preset: up to approx. 150°/s
	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 (Except DS-2DF1-611 / 601X)
	Auto Flip	YES
	Parameter Restore	Go to the speed dome last status after reboot
	Park Actions	Start to Call Preset / Patrol / Pattern / Auto Scan / Random Scan / Frame 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
	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)
Client GUI	Camera Control	Pan / Tilt, Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call 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
	Alarm Actions	Preset 1 ~ 200, Patrol 1 ~ 8, Pattern 1 ~ 4, SD card recording, Terminal output, Notification on Client.
Input/ Output	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: 1KΩ±10%
	Audio Output	Audio out, Line level
General	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 / Humidity	.-30℃ ~ 60℃ (outdoor) / -10℃ ~ 50℃ (indoor) 90% or less (without condensation)
	Water and Dust Resistance	IP66 standard compatible (Just for Outdoor dome) TVS 3000Vlimited lightning protection
	Dimensions	6 inch, Φ243 (mm)×287 (mm)
	Weight (approx.)	5kg

3. Dimension

Unit: (mm)