



**DS-2AF1-617X/607X Analog Speed Dome
Technical Manual**

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1. Key Features

- Sony EXview CCD
- $\pm 0.1^\circ$ Preset Accuracy
- $400^\circ/\text{s}$ Pan Preset Speed and $150^\circ/\text{s}$ Tilt Preset Speed
- $0.3\text{-}300^\circ/\text{s}$ Manual Pan Speed and $0.5\text{-}90^\circ/\text{s}$ Manual Tilt Speed
- Scheduled Task: Programmable Preset / Patrol / Auto Scan / Pattern / Random Scan / Frame Scan
- 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
- Password Protection: Prevent Modifying Menu Parameter
- Line Failure Diagnoses: RS-485 and Manchester Line Failure Diagnoses
- 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 $40^\circ/\text{sec}$
- Privacy Blank: Up to 24 Zones, but Support 8 Zones Masked Simultaneously in One Image
- Programmable Limit Stops for Auto / Random Scan / Frame Scan / Manual Modes
- Built-in On Menu System for Setup of Programmable Functions
- On-Screen Compass, Pan ,Tilt and Zoom Display
- Alarm I/O: 7 Channels Input and 2 Channels Relay Output
- Alarm Actions: 200 Presets, 8 Patrols, 4 Patterns, Auto Scan, Alarm output, Alarms can be Individually Programmed for 3 Priority Levels
- Resume after Alarm: Allow the Dome Return to Previous State after Alarm Acknowledgement
- Built-in Surge Protection and TVS 3000V 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

Parameter		DS-2AF1-617X DS-2AF1-607X
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	1.4Lux / 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	N: 1/4~1/10,000s (20 steps) P: 1/3~1/10,000s (20 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	3.4-122.4mm, 36x zoom
	Zoom Speed	Approx. 4.0sec (Optical WIDE-TELE)
	Angular of View	57.8 degree (WIDE end) to 1.7 degree (TELE end)
	Min. Working Distance	320mm (WIDE end), 1500mm (TELE end)
	Aperture Range	F1.6-F4.5
Pan and Tilt	Pan Range	360° endless
	Pan Speed	Manual: approx. 0.3°/s-300°/s
		Preset: up to approx. 400°/s
	Tilt Range	0°~90° (Auto flip)
	Tilt Speed	Manual: approx. 0.5°~90°/s
		Preset: up to approx. 150°/s
	Proportional Pan/Tilt Control	YES
	Number of Preset	200
Auto Mode	OFF / Preset / Patrol / Pattern / Auto Scan / Random Scan / Frame Scan	
Patrols	8	

	Patterns	4
	Scheduled Task	Scheduled Task: programmable Preset / Patrol / Auto Scan / Pattern / Random Scan / Frame Scan.
	Freeze Frame	Freeze Frame during Preset.(Except DS-2AF1-611 / 601X)
	Auto Flip	YES
	Parameter Restore	Go to the speed dome last status after reboot
	Park Action	Start to Call Preset / Patrol / Pattern / Auto Scan / Random Scan / Frame Scan, after a Defined Time of Inactivity
	PTZ Position Display	ON / OFF
Alarm	Alarm Input	7 channels input, priority is configurable
	Alarm Output	2 channels relay output, alarm linkage is configurable
	Alarm Actions	Preset 1 ~ 200, Patrol 1 ~ 8 , PATTERN 1 ~ 4, Terminal output
Monitor Output	Monitor Output	1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC
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 3000V limited lightning protection
	Dimensions	6 inch, Φ243(mm)×287(mm)
	Weight(approx.)	5kg

3. Dimension

