HIKVISION

DS-2AF1-611X/601X, DS-2AF1-613X/603X

DS-2AF1-615X/605X, DS-2AF1-617X/607X

High Speed Dome

Technical Manual

Notices

The information in this documentation is subject to change without notice and does not represent any commitment on behalf of HIKVISION. HIKVISION disclaims any liability whatsoever for incorrect data that may appear in this documentation. The product(s) described in this documentation are furnished subject to a license and may only be used in accordance with the terms and conditions of such license.

Copyright © 2006-2010 by HIKVISION. All rights reserved.

This documentation is issued in strict confidence and is to be used only for the purposes for which it is supplied. It may not be reproduced in whole or in part, in any form, or by any means or be used for any other purpose without prior written consent of HIKVISION and then only on the condition that this notice is included in any such reproduction. No information as to the contents or subject matter of this documentation, or any part thereof, or arising directly or indirectly therefrom, shall be given orally or in writing or shall be communicated in any manner whatsoever to any third party being an individual, firm, or company or any employee thereof without the prior written consent of HIKVISION. Use of this product is subject to acceptance of the HIKVISION agreement required to use this product. HIKVISION reserves the right to make changes to its products as circumstances may warrant, without notice.

This documentation is provided "as-is," without warranty of any kind.

Please send any comments regarding the documentation to:
overseabusiness@hikvision.com

Find out more about HIKVISION at www.hikvision.com

Contents

1. Key Features

System function:
- 1/4'' SONY high performance CCD
- High-precision motor with sensitive response and reliable movement. Precision bias less than 0.1°.No vibration under any selected speed
- Auto adaptive to HIKVISION, Pelco-P/D protocol in RS-485 control mode
- 3D intelligent positioning function. Through software or DVR, it can realize tracking and enlarging
- OSD menu in multiple languages and operation hint capability
- Power-off protection of setup parameters
- Power-off memory function: restore PTZ & Lens status after reboot
- Built-in temperature sensor designed, with display of internal temperature
- Lightning protection, surge protection and voltage transient protection capabilities
- Outdoor dome meets IP66 standard
- RS-485 connection failure diagnosis capability, with failure information, e.g., wrong address, baud rate errors, et., displayed on the video screen in text
- Manchester code and connection failures diagnosis capability, with failure information, e.g., wrong address, baud rate errors s displayed on the video screen in special characters
- Scheduled enabling of preset /patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan
- Password protection to prevent unauthorized operation
- Camera title programmable, with display of Chinese/English characters on video screen
- Scanning within programmed zone without need of receiving control command; display zone title

Camera function:
- Auto iris, auto focus, auto white balance, backlight compensation and auto/manual day & night switch, and WDR function option
- 24 privacy masks programmable, with location and size adjustable; a maximum of 8 zones can be masked simultaneously on the same video screen(depending on different camera models)

PTZ function:
- 360° endless pan range and -5°-90° tilt range; auto flip capability
- Max. pan preset speed of 400°/s and max. tilt preset speed of 200°/s
- Manual pan speed of 0.3°~160°/220°/300°/s and manual tilt speed of 0.3°~60°/75°/90°/s

- 256 presets programmable; preset image freezing capability
- 8 patrols, each patrol up to 32 presets
- 4 patterns, with the total recording time not less than 10 min
- Proportional zoom function, with rotation speed adjusted automatically according to zoom multiples
- Park action: auto callup of preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan, after a defined time of inactivity
- 7 alarm inputs (priority configurable) and 2 alarm outputs, providing alarm response actions of relay out/preset /patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan
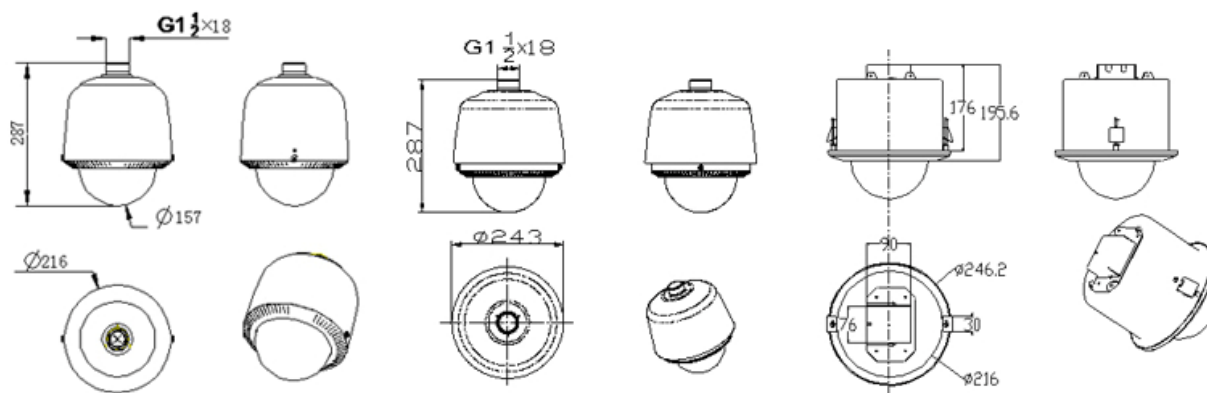
2. Application

It can be widely used in wide range environments which required high-speed monitoring, e.g. river, forest, highroad, railway, airport, port, oil field, sentry, piazza, park, scenic zone, street, station, venue, and etc.

3. Specifications

Model		DS-2AF1-611X DS-2AF1-601X	DS-2AF1-613X DS-2AF1-603X	DS-2AF1-615X DS-2AF1-605X	DS-2AF1-617X DS-2AF1-607X
Camera	Image Sensor	1/4 inch SONY EXVIEW CCD			
	Effective Pixel	PAL:752(H)×582(V) NTSC:768(H)×494(V)			
	Horizontal Resolution	480 TVL	480 TVL(Color) 520 TVL(B/W)		
	Signal System	PAL /NTSC			
	Min.Illumination	1.0Lux/F1.4	0.7Lux/F1.4(Color) 0.01Lux/F1.4(B/W)	1.0Lux/F1.4(Color) 0.01Lux/F1.4(B/W)	1.4Lux/F1.4(Color) 0.01Lux/F1.4(B/W)
	White Balance	Auto / Manual / ATW / Indoor / Outdoor			
	AGC	Auto / Manual			
	S / N Ratio	More than 50dB			
	BLC / WDR	BLC(On / Off)			
	Electronic Shutter	PAL:1/50~1/10,000s NTSC:1/60~1/10,000s	PAL:1/3~1/10,000s NTSC:1/4~1/10,000s		
	Day & Night	Electronic	ICR		
	Digital Zoom	12x			
	Privacy Mask	24 privacy masks programmable; a maximum of 8 zones can be masked simultaneously on the same video screen			
	Focus Model	Auto / Semiautomatic / Manual			
Lens	Focal Length	4.1-73.8mm, 18X		3.5-91mm,26X	3.4-122.4mm,36X
	Zoom Speed	Approx.2.1s(Optical Wide-Tele)		Approx.4.0s(Optical Wide-Tele)	
	Angle of View	48-2.8degree(Wide-Tele)		48-1.6degree(Wide-Tele)	57.8-1.7degree(Wide-Tele)
	Min. Working Distance	10-800mm (Wide-Tele)		10-1500mm(Wide-Tele)	
	Aperture Range	F1.4-F3.0		F1.4-F3.8	F1.6-F4.5
Pan and Tilt	Pan Range	360°endless			
	Pan Speed	Pan Manual Speed: 0.3°~160°/220°/300°/s, Pan Preset Speed: 400°/s			
	Tilt Range	-5°~90° (Auto Flip)			
	Tilt Speed	Tilt Manual Speed: 0.3°~60°/75°/90°/s, Tilt Preset Speed: 200°/s			
	Proportional Zoom	Support			

	Number of Preset	256
	Patrol	8patrols, each patrol up to 32 presets
	Pattern	4 patterns, with the total recording time not less than 10 min
	Power-off Memory	Support
	Park Action	Preset / Patrol / Pattern / Pan scan / Tilt scan / Random scan / Frame scan / Panorama scan
	PTZ Position Display	On / Off
	Freeze Frame	— Support
	Password Protection	Support
	Zone Scanning/Display	Support
	Camera Title	Support
	Compass	Support , the north can be set
	Scheduled Task	Preset / Patrol / Pattern / Pan scan / Tilt scan / Random scan / Frame scan / Panorama scan
	RS-485 connection failure diagnosis	Support
	Manchester code and connection failures diagnosis	Support
Alarm	Alarm Input	7 inputs, priority configurable
	Alarm Output	2 relay outputs, alarm response actions option
	Alarm Action	Preset / Patrol / Pattern / Pan scan / Tilt scan / Random scan / Frame scan / Panorama scan / Relay output
Input/ 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 (12V DC option)
	Power Consumption	15W max(30W max with heater, outdoor dome)
	Working Temperature / Humidity	-30 ℃~65℃(outdoor) / -10℃~50℃(indoor) 90% or less
	Protection Level	IP66 standard (outdoor dome) TVS 3000V lightning protection, surge protection and voltage transient protection
	Mounting	Various mounting modes option
	Dimension	Φ243(mm)×287(mm)
	Weight (approx.)	5kg
	Mount Option	Wall Mount:DS-1611ZJ(White);Corner Mount:DS-1632ZJ(White); Indoor pendant mount:DS-1651ZJ(White);Ceiling Mount:DS-1642ZJ(White)

4. Dimension

Unit:(mm)

5. Accessories

DS-1611ZJ Long-arm Wall Mount (White)