

## DH-SD6963/6965/6966E-H

18x/28x/36x 600TVL High Speed All-Weather IR PTZ Dome Camera



**DH-SD6963E-H:** 18x optical zoom, 600TVL, WDR, IR, IP66

**DH-SD6965E-H:** 28x optical zoom, 600TVL, WDR, IR, IP66

**DH-SD6966E-H:** 36x optical zoom, 600TVL, WDR, IR, IP66

### Features

#### Camera

- 1/4" Progressive Scan EXview HAD CCD
- High resolution of 600TVL (Color), 650TVL (B/W)
- Min. illumination of 0.04/0.04/0.1Lux (Color), 0.01/0.005/0.01Lux (B/W)
- Powerful 18x/28x/36x optical zoom and 12x digital zoom

## DH-SD6963/6965/6966E-H

- WDR, Day/Night (ICR), DNR (3D/2D), Auto iris, Auto focus, AE, AWB, AGC, BLC
- Up to 24 privacy masking areas

### Dome Drive

- Max 240 °/s pan speed, 360° continuous pan rotation & auto flips with no blind spot monitor
- Up to 255 preset, 5 auto scan, 8 tour, 5 pattern
- Auto recognition of general protocols such as DH-SD, Pelco-P/D, and etc
- Speed setup according to the focal distance, auto rotation speed adjust in accordance with the lens zoom rate
- Auto restore to previous PTZ and lens status after power failure
- Time Task: Auto activation of Preset/Scan/Tour/ Pattern by preset-time
- Idle task function supported: Call preset/tour and etc operations after idle for the specified time (including the idle status after the system boots up)
- OSD and operation prompts of various languages
- Build-in 7/2 Chanel input/output
- Unique 3D positioning function
- IP66 all-environments protection, 4000V thunder-proof
- Easy installation with user-friendly designs

### IR Lamp

- The longest distance of the build-in IR lamp is over 80m

## Specifications:

Model	DH-SD6963E-H	DH-SD6965E-H	DH-SD6966E-H
<b>Camera</b>			
Image Sensor	1/4" Progressive Scan EXview HAD CCD		
Effective Pixels	PAL: 752(H) x 582(V), NTSC: 768(H) x 494(V)		
Horizontal Resolution	600TVL(Color), 650TVL(B/W)		
Min. Illumination	0.04Lux/F1.4(Color), 0.01Lux/F1.4(B/W)	0.04Lux/F1.35(Color), 0.005Lux/F1.35(B/W)	0.1Lux/F1.6(Color), 0.01Lux/F1.6(B/W)
Lens	18x zoom	28x zoom	36x zoom
	f=4.1mm(wide) ~ 73.8mm(tele), F1.4 ~ F3.0	f=3.5mm(wide) ~ 98.0mm(tele), F1.35 ~ F3.7	f=3.4mm(wide) ~ 122.4mm(tele), F1.6 ~ F4.5
Digital Zoom	12x		
Angle of View	48°(wide) ~ 2.8°(tele)	55.8°(wide) ~ 2.1°(tele)	57.8°(wide) ~ 1.7°(tele)
Close Focal Distance	290mm(wide) ~ 800mm(Tele)	10mm(wide) ~ 1500mm(Tele)	320mm(wide) ~ 1500mm(Tele)
Electronic Shutter	PAL: 1/3 ~ 1/10000 sec. (20 steps), NTSC: 1/4 ~ 1/10000 sec. (20 steps)		
WDR	ON/OFF/AUTO		
Day/Night	ICR, ON/OFF/AUTO		
3D Noise Reduction	ON/OFF (level 5 to 1 / OFF, 6 steps)		
Gain	Auto/Manual/Max. Gain Limit (-3 dB to +28 dB, 2 dB steps)		
Exposure Control	Auto, Manual, Priority mode (shutter priority & iris priority), Bright, EV compensation, Slow AE		
BLC	ON/OFF		

## DH-SD6963/6965/6966E-H

White Balance	Auto, ATW, Indoor, Outdoor, Outdoor Auto, Sodium Vapor Lamp (fix/auto), One-push, Manual
Picture Effects	E-Flip, Nega Art, Black & White, Mirror image, Color Enhancement
S/N Ratio	Above 50 dB
Privacy Masking	ON/OFF (up to 24 privacy masking areas)
Video Output	BNC(1.0Vp-p / 75Ω), PAL / NTSC
<b>Dome Drive</b>	
Pan/Tilt Range	Horizontal: 0°~360° endless, Vertical: -2°~90° auto flip 180° to continue monitor
Manual Control Speed	Horizontal: 0.1° ~160° /s, Vertical: 0.1° ~120° /s
Preset Speed	Horizontal: 240° /s, Vertical: 200° /s
Preset	255
PTZ Mode	5 Auto Pattern, 8 Auto Tour, 5 auto scan
3D Positioning	Yes
Speed Setup	Human-oriented focal Length/ speed adaptation
Info Display	Time, Location, Dome title, Dome coordinates, Temperature, Alarm, and etc.
Power up Action	Auto restore to previous PTZ and lens status after power failure
Idle Motion	Activate preset/scan/tour/ patter if there is no command in the specified period.
Time Task	Auto activation of Preset/Scan/Tour/ Pattern by preset-time
Alarm	7/2 alarm input/output, Triggering Preset/Tour/Pattern/Scan/On-off Output
IR	OSRAMIR Lamp, 1.5W, SMT, Sound Ventilation, Auto/close lamp/far lamp/off , 850nm illumination wavelength
Remote Upgrade	Yes, RS485
Protocol	DH-SD, Pelco-P/D, Auto recognition of general protocols
<b>General</b>	
Power Supply	AC 24V/3A (±10%)
Power Consumption	12W/30W(IR lamp on)
Working Temperature	-20°C ~ 60°C
Working Humidity	<90%
Protection Level	IP66, 4000V thunder, surge and wave protection
Dimension	Φ230(mm) x 352(mm)
Weight	7.0kg

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\*Design and specifications are subject to change without notice.

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