

Network camera

**HiWatch**<sup>TM</sup>

## **DS-I231**



### **Key Features**

- 1/2.8" progressive scan CMOS
- Up to 2.0 megapixel
- 2.8 mm/4 mm fixed focal lens
- Up to 30 m IR range
- Dual stream
- Digital WDR (Wide Dynamic Range)
- 3D DNR (Digital Noise Reduction)
- PoE (Power over Ethernet)
- IP67, IK10
- Mobile APP: CCTV Guard

Network camera

**Specification**

<b>Camera</b>	
Image Sensor	1/2.8" progressive scan CMOS
Min. Illumination	Color: 0.01 Lux @(F1.2, AGC ON), 0 Lux with IR
Shutter Speed	1/3 s to 1/100, 000 s, support slow shutter
Lens	2.8 mm @F2.0, horizontal field of view 105°, 4 mm @F2.2, horizontal field of view 84°
Lens Mount	M12
Day & Night	IR cut filter with auto switch
2-Axis Adjustment	Pan: 0° to 355°, tilt: 0° to 70°
DNR (Digital Noise Reduction)	3D DNR
WDR (Wide Dynamic Range)	Digital WDR
<b>Compression Standard</b>	
Video Compression	Main stream: H.264+/H.264 Sub stream: H.264/MJPEG
H.264 Type	Baseline profile/Main profile
Video Bit Rate	32 Kbps to 8 Mbps
<b>Image</b>	
Max. Resolution	1920 × 1080
Main Stream Max. Frame Rate	50Hz: 25fps @(1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps @(1920 × 1080, 1280 × 960, 1280 × 720)
Sub-stream Max. Frame Rate	50Hz: 25fps @(704 × 576, 640 × 480, 352 × 288, 320 × 240) 60Hz: 30fps @(704 × 480, 640 × 480, 352 × 240, 320 × 240)
Image Settings	Brightness, saturation, contrast, sharpness are adjustable via web browser or client software
Day/Night Switch	Support auto, scheduled
Others	Mirror, BLC (area configurable), region of interest (support 1 fixed region)
<b>Network</b>	
Network Storage	NAS (NFS, SMB/CIFS)
Detections	Motion detection
Alarms	Video tampering, network disconnected, IP address conflicted
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv6, Bonjour
Standard	ONVIF (PROFILE S, PROFILE G), PSIA, CGI, ISAPI
General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark, IP address filter
<b>Interface</b>	
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Reset	Support
<b>General</b>	
Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F), humidity: 95% or less (non-condensing)
Power Supply	12 V DC ± 25%, PoE (802.3af)
Power Consumption	Max. 5 W
Protection Level	IP67, IK10
IR Range	Up to 30 m
Dimensions	Φ 111 mm × 82 mm (4.4" × 3.2")
Weight	500 g (1.1 lb.)

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## Available Models

DS-I231

## Dimension

