

IPC425-F233-N

2.0MP Starlight & Ultra WDR HD 33x Network IR Speed Dome Features

Excellent Image Quality

2.0 Megapixel 1/3" progressive scan CMOS sensor
High definition and smooth picture, 1080p@60fps
H.265 video codec, saves up to 50% bandwidth and storage
Ultra low illumination, 0.003lux with color picture
120dB Ultra WDR
IR automatically adjusts
HLC / 3D noise reduction



Intelligent Functions

Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

Long Operation Lifespan

Industrial components, withstands operation temperatures of -40°C ~ 70°C
IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

Large Scale

33x optical zoom
IR distance up to 220m

Abundant Functions and Features

SD card slot, supports Automatic Network Replenishment (ANR)
Up to 3 Multi-stream
Bi-directional audio / alarm in and out / video out / RS485
Built-in O-sensor
Wiper

Camera	
Image Sensor	1/2.8" progressive scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.003lux @ (F1.6, AGC ON) B/W: 0.0003lux @ (F1.6, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>55dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens	
Focal Length	4.5 ~ 148.5mm, 33x optical
Zoom Speed	Approx 3s (Optical)
Angle of View	67.8°~ 2.34° (Wide~Tele)
Min. Object Distance	300 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.6 (Wide) / F4.4 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
Infrared	
IR LED	12pcs IR LED Array
IR Distance	180 ~ 220m
IR Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / -15° ~ 90° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 200°/s; Pan preset speed: 220°/s Tilt manual speed: 0.1° ~ 150°/s; Tilt preset speed: 200°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery

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Features

Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Electronic compass	Built-in O-sensor
Wiper	Supported
Video	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@60fps Secondary stream: D1@30fps
Bitrate	32kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi-stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
Audio	
Compression	G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726
Bitrate	32kbps ~ 64kbps
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute
Network	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network Replenishment (ANR)	Supported
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Interfaces	
Ethernet	10/100M, RJ45 interface
Audio In / Out	1 x Line in / 1 x Line out
Control	1 x RS485
Alarm In / Out	4 x Input / 2 x Output
Video Out	1 x BNC, 1.0V [p-p] / 75Ω
Memory Slot	SD card slot, supports up to 128GB
Environmental	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Electrical	
Power	24V AC / 3A (Power adapter included)
Power Consumption	Max. 45W (IR on)
Mechanical	
Weight	8 kg / 17.6lb (Gross Weight)
Dimensions	Φ214× 379mm / Φ8.43" x 14.92"