

LONG

DISTANCE

SURVEILLANCE

YOUR GOAL IS OUR MISSION

DATA SHEETS





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Scan or Click to download Long Distance Surveillance Presentation

IPC523-F255-NL

2.0MP HD 55x Network Laser PTZ Camera















Features

Excellent Image Quality
2.0 Megapixel, 1/2.8" 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, 0.001lux with color picture 120dB Ultra WDR

Laser automatically adjusts HLC / 3D noise reduction

Intelligent

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

Long Operation Lifespan

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

Large Scale

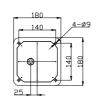
55x optical zoom Laser distance up to 1500m

Abundant Functions and Features

SD card optional, supports Automatic Network Replenishment (ANR) Up to 3 video streams Bi-directional audio / alarm in and out / video out Wiper supported

Dimensions





Units: mm

Specifications

Specifications	
IPC523-F255 -NL	
Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.001Lux @ (F1.2, AGC ON)
	B/W: 0.0001Lux @ (F1.2, 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	6.6 ~ 363mm, 55x optical
Zoom Speed	Approx. 4s (Optical)
Angle of View	43.8°~ 1° (Wide~Tele)
Minimum Object Distance	300 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.6 (Wide) / F6.0(Tele)
	, , , , ,
Focus Control	Auto / Manual / Semi-Automatic
Laser	
Laser Distance	1500m
Laser Intensity	Automatically adjust according to zoom ratio
Pan and Tilt	
Pan / Tilt Range	360° Endless / -85° ~ 85° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 120°/s; Pan preset speed: 120°/s
, opsou	Tilt manual speed: 0.1° ~ 30°/s; Tilt preset speed: 120 /s
Proportional Zoom	· · · · · · · · · · · · · · · · · · ·
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
Auto Guard	Path / Preset / Pan 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
Traine reac	Secondary stream: D1@30fps
Dit t -	,
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.
Supported User Interface	UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control (IE, Firefox, Chrome)
Max. User Access	
	10 Users (includes 2 internal access)
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Automatic Network	Supported
Replenishment (ANR)	
Alarm	
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area /
3	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
Alarm In / Out	1 x Input / 1 x Output
Video Out	1 x BNC, 1.0V [p-p] / 75Ω
Memory Slot	Built-in Micro SD card (optional), up to 128GB
Environmental	1
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	Y*
Power	24\/ AC / 3A (Power adapter included)
	24V AC / 3A (Power adapter included)
Power Consumption	Max. 70W (Laser on)
Mechanical	
Weight	10kg / 22lb (Gross Weight)
Dimensions	404 × 222.6 × 243.5mm / 15.9" x 8.76" x 9.59"
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IPC525-NL

2.0MP HD Long Range Laser PTZ Camera













Features

Excellent Image Quality
2.0 Megapixel 1/1.9" Progressive Scan CMOS Sensor High definition and smooth picture, 1080p@30fps H.265 video codec, saves up to 50% bandwidth and storage Low illumination, 0.001lux with color picture 120dB Ultra WDR Laser automatically adjusts

HLC / 3D noise reduction

Long Operation Lifespan Industrial components, with stand operation temperature of -40 $^{\circ}$ C $^{\sim}$

1P66, TVS 6000V lightning protection, surge protection and voltage transient protection

More than 30,000 hours operational lifespan of the laser illuminator

Large Scale

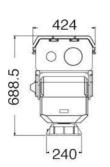
60x optical zoom (-F160-NL3,-F260-NL5)
Barlow lens supported (-F160-NL3,-F260-NL5) Long range night vision up to 5Km (-F260-NL5)

Abundant Functions and Features
Strong PT structure has smooth movements even with a 100kg carryon load

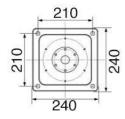
Optical defog Built-in O-sensor AR & AF housing glass Aviation connector

Dimensions

Units: mm









Specifications	
IPC525-NL	
Camera	
Image Sensor	1/1.9" Progressive Scan CMOS
Pixels Min. Illumination	2.0 Megapixel Color: 0.001lux @ (F1.2, AGC ON)
Will. Illumination	B/W: 0.0001lux @ (F1.2, AGC ON)
Shutter Speed	1 ~ 1/30,000s
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range S/N Ratio	Ultra WDR, 120dB >57dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / BLC / HLC
Lens	[F100 NI 0 45 0 500 00 11 1
Focal Length	F132-NL2: 15.6 ~ 500mm, 32x optical F160-NL3: 12.5 ~ 750mm, 60x optical, 2x Barlow lens supported
	F260-NL5: 16.7 ~ 1000mm, 60x optical, 2x Barlow lens supported
Zoom Speed	Approx 3 ~ 10s (Optical)
Angle of View	F132-NL2: 26.73° ~ 0.75° (Wide~Tele) F160-NL3: 28.71° ~ 0.49° (Wide~Tele)
	F260-NL5: 23.01° ~ 0.41° (Wide~Tele)
Minimum Object Distance	5000mm (Wide)
Max. Aperture Ratio	F3.5 (Wide) / F16 (Tele)
Focus Control Auto Back Focus	Auto / Manual / Semi-Automatic Automatic
Optical Defog	Supported
Laser	
Wave Length	808nm
Power Consumption	F132-NL2: 15W F160-NL3: 20W
	F260-NL5: 25W
Laser Distance	F132-NL2: 2Km
	F160-NL3: 3Km F260-NL5: 5Km
Laser Intensity	Automatically adjust according to lens zoom
Illuminating Angle	0.3° ~ 30° continuous change
Vision	E122 NI 2: 21/m
Day	F132-NL2: 3Km F160-NL3: 5Km
	F260-NL5: 8Km
Night	F132-NL2: 2Km
	F160-NL3: 3Km F260-NL5: 5Km
Pan and Tilt	1200 1120. 01411
Pan / Tilt Range	360° Endless / -60° ~ 60° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.01° ~ 15°/s; Pan preset speed: 15°/s Tilt manual speed: 0.01° ~ 10°/s; Tilt preset speed: 10°/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 Path / Preset / Pan scan
Auto Guard PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Electronic compass	Built-in O-sensor
Location Sensor	GPS
Shield Housing Glass	AR & AF glass
Video	74.CC74 gidos
	H.265 / H.264 / MJPEG
Compression	
Compression Image Resolution	Main stream: 1080p
Image Resolution	Main stream: 1080p Secondary stream: D1
	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps
Image Resolution	Main stream: 1080p Secondary stream: D1
Image Resolution Frame Rate Bitrate Bitrate Control	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps Secondary stream: D1@30fps 32kbps - 16Mbps VBR / CBR
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps 32kbps - 16Mbps VBR / CBR Supported
Image Resolution Frame Rate Bitrate Control Multi-stream Caption	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps 32kbps - 16Mbps VBR / CBR Supported
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported Supported Supported Supported Supported
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction	Main stream: 1080p Secondary stream: D1 Main stream: 1080p(30fps Secondary stream: D1@30fps Secondary stream: D1@30fps 32kbps - 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported Supported Supported 30 noise reduction
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported Supported Supported Supported Supported
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps 32kbps = 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported 30 noise reduction Supported Mirror
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps Secondary stream: D1@30fps 32kbps - 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported Supported Supported Supported Supported Supported Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported 3D noise reduction Supported 3D noise reduction Supported G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps Secondary stream: D1@30fps 32kbps - 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported Supported Supported Supported Supported Supported Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported 3D noise reduction Supported 3D noise reduction Supported G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Network	Main stream: 1080p Secondary stream: D1 Main stream: 1080p(30fps Secondary stream: D1@30fps Secondary stream: D1@30fps Secondary stream: D1@30fps Secondary stream: D1@30fps Sybps = 16Mbps Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported Supported 30 noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 Sybps = 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocol Supported User Interface	Main stream: 1080p Secondary stream: D1 Main stream: 1080p(30fps Secondary stream: D1@30fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported 30 noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722-1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocol Supported User Interface Max. Max. User Access	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Up to 4 zones Supported Supported 3D noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 Sizkbps - 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802 1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control ID Users (include 2 internal access)
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Noise Reduction Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocol Supported User Interface Max. Max. User Access Application Programming Automatic Network	Main stream: 1080p Secondary stream: D1 Main stream: 1080p(30fps Secondary stream: D1@30fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported 30 noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722-1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocol Supported User Interface Max. Max. User Access Application Programming Automatic Network Replenishment (ANR)	Main stream: 1080p Secondary stream: D1 Main stream: 1080p(30fps Secondary stream: D1@30fps Secondary stream: D1@30fps Secondary stream: D1@30fps Secondary stream: D1@30fps Sybps = 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported 30 noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps = 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPPP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IIPC Control 10 Users (include 2 internal access) ONVIF, GB/T 28181-2011, API
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocol Supported User Interface Max. Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm	Main stream: 1080p Secondary stream: D1 Main stream: 1080p(30fps Secondary stream: D1@30fps Secondary stream: D1@30fps Secondary stream: D1@30fps Secondary stream: D1@30fps Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Up to 4 zones Supported Supported Supported Supported 30 noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPPP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control 10 Users (include 2 internal access) ONVIF, GB/T 28181-2011, API Supported
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Network Protocol Supported User Interface Max. Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps Supported Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported Supported Supported Supported G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 Sizkbps - 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPPP, 802.1x, NAT, Oos, SMTP, IPv4, IPv6 (optional) IPC Control 10 Users (include 2 internal access) ONVIF, GB/T 28181-2011, API Supported Network disconnect / Disk full / Disk error
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocol Supported User Interface Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported 30 noise reduction Supported 30 noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control 10 Users (include 2 internal access) ONVIF, GB/T 28181-2011, API Supported Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left Object removal / Gathering / Audio surge
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Network Protocol Supported User Interface Max. Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Up to 4 zones Supported 3D noise reduction Supported 3D noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPPP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control 10 Users (include 2 internal access) ONVIF, GB/T 28181-2011, API Supported Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left Object removal / Sathering / Audio surge Alamm report / Recording / Text overlay / Snapshot / External output / Email notice /
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocol Supported User Interface Max. Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported 30 noise reduction Supported 30 noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control 10 Users (include 2 internal access) ONVIF, GB/T 28181-2011, API Supported Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left Object removal / Gathering / Audio surge
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocol Supported User Interface Max. Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Up to 4 zones Supported 3D noise reduction Supported 3D noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPPP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control 10 Users (include 2 internal access) ONVIF, GB/T 28181-2011, API Supported Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left Object removal / Sathering / Audio surge Alamm report / Recording / Text overlay / Snapshot / External output / Email notice /
Image Resolution Frame Rate Bitrate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocol Supported User Interface Max. Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent Alarm Events Interfaces Ethernet Audio In / Out	Main stream: 1080p Secondary stream: D1 Main stream: 1080p(30fps Secondary stream: D1@30fps Supported Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported 3D noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps - 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPPP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control 10 Users (include 2 internal access) ONVIF, GB/T 28181-2011, API Supported Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left Object removal / Gathering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm 10/100M, RJ45 interface 1 x Line in / 1 x Line out
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocol Supported User Interface Max. Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelfaces Ethernet Audio In Out Alarm Alarm Events Interfaces Ethernet Audio In Out Alarm Alarm Interface	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps Supported Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported Supported Supported Supported G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32/kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IIPC Control 10 Users (include 2 internal access) ONVIF, GB/T 28181-2011, API Supported Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left Object removal / Gathering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm 10/100M, RJ45 interface 1 x Line in / 1 x Line out 1 x Output
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Filip Audio Compression Bitrate Audio Function Network Network Protocol Supported User Interface Max. Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent Alarm Events Interface Ethernet Audio In / Out Alarm Memory Slot	Main stream: 1080p Secondary stream: D1 Main stream: 1080p(30fps Secondary stream: D1@30fps Supported Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported 3D noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps - 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPPP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control 10 Users (include 2 internal access) ONVIF, GB/T 28181-2011, API Supported Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left Object removal / Gathering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm 10/100M, RJ45 interface 1 x Line in / 1 x Line out
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Noise Reduction Digital Pefog Image Flip Audio Compression Bitrate Audio Function Network Network Protocol Supported User Interface Max. Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent Alarm Events Interfaces Ethernet Audio In Out Alarm Memory Slot Environmental	Main stream: 1080p Secondary stream: D1 Main stream: 1080p(30fps Secondary stream: D1@30fps Supported Supported Up to 4 zones Supported Supported Supported Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722-1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control 10 Users (include 2 internal access) ONVIF, GB/T 28181-2011, API Supported Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left Object removal / Gathering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm 10/100M, RJ45 interface 1 x Line in / 1 x Line out 1 x Output TF card slot, supports up to 128GB
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocol Supported User Interface Max. Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent Alarm Events Interfaces Ethernet Audio In Out Alarm Memory Slot Environmental Operating Temperature	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps Supported Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported Supported Supported Supported G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32/kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IIPC Control 10 Users (include 2 internal access) ONVIF, GB/T 28181-2011, API Supported Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left Object removal / Gathering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm 10/100M, RJ45 interface 1 x Line in / 1 x Line out 1 x Output
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Noise Reduction Digital Pefog Image Flip Audio Compression Bitrate Audio Function Network Network Protocol Supported User Interface Max. Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent Alarm Events Interfaces Ethernet Audio In Out Alarm Memory Slot Environmental	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VPBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported 3D noise reduction Supported 3D noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPPP, 802.1x, NAT, OoS, SMTP, IPv4, IPv6 (optional) IIPC Control 10 Users (include 2 internal access) ONVIF, GB/T 28181-2011, API Supported Network disconnect / Disk full / Disk error Motion detection / Tampering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm 10/100M, RJ45 interface 1 x Line in / 1 x Line out 1 x Output TF card slot, supports up to 128GB
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocol Supported User Interface Max. Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent Alarm Events Interfaces Ethernet Audio In / Out Alarm Memory Slot Environmental Operating Temperature Operating Immidity	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps Sypported Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported Supported Supported Supported G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps - 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPPP, 802.1x, NAT, Qos, SMTP, IPv4, IPv6 (optional) IPC Control 10 Users (include 2 internal access) ONVIF, GB/T 28181-2011, API Supported Network disconnect / Disk full / Disk error Motion detection / Tampering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm 10/100M, RJ45 interface 1 x Line in / 1 x Line out 1 x Output TF card slot, supports up to 128GB -40°C ~ 60°C / -40°F ~ 140°F 10% ~ 95% IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Filip Audio Compression Bitrate Audio Function Network Network Protocol Supported User Interface Max. Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent Aurin Events Ethernet Audio In / Out Alarm Memory Slot Environmental Operating Temperature Operating Humidity Protection Level Electrical Power	Main stream: 1080p Secondary stream: D1 Main stream: 1080p(30fps Secondary stream: D1@30fps 32kbps - 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Up to 4 zones Supported 3D noise reduction Supported 3D noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps - 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802 1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control 10 Users (include 2 internal access) ONVIF, GBIT 28181-2011, API Supported Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left Object removal / Gathering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm 10/100M, RJ45 interface 1 x Line in / 1 x Line out 1 x Output TF card slot, supports up to 128GB 40°C ~ 60°C / -40°F ~ 140°F 10% ~ 95% IP66, TVS 6000V lightning protection, surge protection and voltage transient protection 24V DC ± 25% (Power adapter included)
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocol Supported User Interface Max. Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent Alarm Events Interfaces Ethernet Audio In / Out Alarm Memory Slot Environmental Operating Temperature Operating Immidity	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VPR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported 30 noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPPP, 802.1x, NAT, Qos, SMTP, IPv4, IPv6 (optional) IIPC Control 10 Users (include 2 internal access) ONVIF, GB/T 28181-2011, API Supported Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left Object removal / Gathering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm 10/100M, RJ45 interface 1 x Line in / 1 x Line out 1 x Output TF card slot, supports up to 128GB 40°C ~ 60°C / -40°F ~ 140°F 10% ~ 95% IP66, TVS 6000V lightning protection, surge protection and voltage transient protection 24V DC ± 25% (Power adapter included) F132-NL2: Max. 110W (Laser on)
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Noise Reduction Digital Pefog Image Flip Audio Compression Bitrate Audio Function Network Network Protocol Supported User Interface Max. Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent Alarm Events Interfaces Ethernet Audio In / Out Alarm Memory Slot Environmental Operating Humidity Protection Level Electrical Power Power Power Power	Main stream: 1080p Secondary stream: D1 Main stream: 1080p(30fps Secondary stream: D1@30fps 32kbps - 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Up to 4 zones Supported 3D noise reduction Supported 3D noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps - 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802 1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control 10 Users (include 2 internal access) ONVIF, GBIT 28181-2011, API Supported Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left Object removal / Gathering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm 10/100M, RJ45 interface 1 x Line in / 1 x Line out 1 x Output TF card slot, supports up to 128GB 40°C ~ 60°C / -40°F ~ 140°F 10% ~ 95% IP66, TVS 6000V lightning protection, surge protection and voltage transient protection 24V DC ± 25% (Power adapter included)
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocol Supported User Interface Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent Alarm Events Interfaces Ethemet Audion Operating Humidity Protection Level Electrical Power Power Consumption Mechanical	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps Supported Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported Supported Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32/kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control 10 Users (include 2 internal access) ONVIF, GB/T 28181-2011, API Supported Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left Object removal / Gathering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm 10/100M, RJ45 interface 1 x Line in / 1 x Line out 1 x Cutput TF card slot, supports up to 128GB -40°C ~ 60°C / -40°F ~ 140°F 10% ~ 95% IP66, TVS 6000V lightning protection, surge protection and voltage transient protection F132-NL2: Max. 110W (Laser on) F160-NL3: Max. 115W (Laser on) F160-NL3: Max. 115W (Laser on) F160-NL5: Max. 120W (Laser on)
Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Noise Reduction Digital Pefog Image Flip Audio Compression Bitrate Audio Function Network Network Protocol Supported User Interface Max. Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent Alarm Events Interfaces Ethernet Audio In / Out Alarm Memory Slot Environmental Operating Humidity Protection Level Electrical Power Power Power Power	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@30fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Up to 4 zones Supported 3D noise reduction Supported 3D noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPPP, 802.1x, NAT, Qos, SMTP, IPv4, IPv6 (optional) IPC Control 10 Users (include 2 internal access) ONVIF, GB/T 28181-2011, API Supported Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left Object removal / Gathering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm 10/100M, RJ45 interface 1 x Line in / 1 x Line out 1 x Output TF card slot, supports up to 128GB -40°C ~ 60°C / -40°F ~ 140°F 10% ~ 95% IP66, TVS 6000V lightning protection, surge protection and voltage transient protection F132-NL2: Max. 115W (Laser on) F150-NL3: Max. 115W (Laser on)

IPC528-F360-NL5-R150Z

2.0MP HD Varifocal Thermal + Optical Bi-spectrum Laser PTZ Camera















Features

Excellent Image Quality

2.0 Megapixel, 1/1.8" Progressive Scan CMOS Sensor High definition and smooth picture, 1080p@60fps, 800 x 600@30fps (Thermal) H.265 video codec, saves up to 50% bandwidth and storage Low illumination, 0.005lux with color picture

120dB Ultra WDR Laser automatically adjusts HLC / 3D noise reduction

Thermal Module

High sensitivity thermal module, 800 x 600@30fps
Up to 9 palettes of adjustable color

Intelligent

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

Long Operation Lifespan

Industrial components, withstands operational temperatures between -40°C ~ 60°C IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
More than 30,000 hours operational lifespan of the laser illuminator

Large Scale

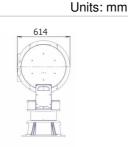
Long range night vision up to 5Km

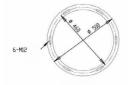
Abundant Functions and Features

Micro SD card slot, supports Automatic Network Replenishment (ANR) Strong PT structure has smooth movements even with a 100kg carry-on load Optical defog Built-in O-sensor AR and AF housing glass

Aviation connector

Dimensions







Specifications

Specifications	
IPC528-F360-NL5-R150Z	
Thermal Module	Vanadium Ovida I hasalad Fasal Direct Arrest
Image Sensor Resolution	Vanadium Oxide Uncooled Focal Plane Arrays 800 x 600
Lens	15 ~ 150mm, 10x thermal
Pixel Interval	17µm
NETD	< 40mk(@25°C,F#=1.0)
Response Waveband	8µm ~ 14µm
Color mode Optical Camera	Up to 9 modes
Image Sensor	1/1.8" Progressive Scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.005Lux @ (F3.0, AGC ON)
	B/W: 0.0005Lux @ (F3.0, AGC ON); 0Lux with Laser
Shutter Speed Day / Night	1 ~ 1/30,000s Auto (ICR) / Color / B/W
Wide Dynamic Range	Ultra WDR, >=120dB
S/N Ratio	>57dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
Lens Focal Length	16.7 ~ 1000mm, 60x optical
Zoom Speed	Approx 3 ~ 10s (Optical)
Angle of View	28.43°~ 0.29° (Wide~Tele)
Minimum Object Distance	5000mm (Wide)
Max. Aperture Ratio	F3.5 (Wide) / F16 (Tele)
Focus Control Auto Back Focus	Auto / Manual / Semi-Automatic
Optical Defog	Supported
Laser	- 1 · 1 · · · · · · · · · · · · · · · ·
Wave Length	808nm
Power Consumption	25W
Laser Distance	5Km Automatically adjust according to zoom ratio
Laser Intensity Illuminating Angle	Automatically adjust according to zoom ratio 0.3° ~ 30° continuous change
Vision	
Day	10Km
Night	5Km
Pan and Tilt	200° Fadless / QE° , QE° (Auto Flin)
Pan / Tilt Range Pan / Tilt Speed	360° Endless / -85° ~ 85° (Auto Flip) Pan manual speed: 0.01° ~ 180°/s; Pan preset speed: 180°/s
raii / Till Speed	Tilt manual speed: 0.01° ~ 90°/s; Tilt preset speed: 90°/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 Auto Guard	Power-off memory / Power-on recovery Path / Preset / Pan scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
Electronic compass	Built-in O-sensor
Location Sensor	GPS
Shield	100000
Housing Glass	AR & AF glass
Housing Glass Video	
Housing Glass	AR & AF glass H.265 / H.264 / MJPEG Main stream: 1080p
Housing Glass Video Compression Image Resolution	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1
Housing Glass Video Compression	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps
Housing Glass Video Compression Image Resolution Frame Rate	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps
Housing Glass Video Compression Image Resolution Frame Rate Bitrate	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps
Housing Glass Video Compression Image Resolution Frame Rate	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Up to 4 zones Up to 4 zones Supported Supported
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Mirror
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Bitrate Caption Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Mirror
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported 3D noise reduction Supported 3D noise reduction Supported G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported Supported Supported Supported Supported Garnia / Garni
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Network Protocols	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Up to 4 zones Supported 3D noise reduction Supported 3D noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP,
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Network Network Protocols Supported	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported Supported Supported Supported Supported Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPPP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Network Network Network	H.265 / H.264 / MJPEG Main stream: 1080p@60fps Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported 30 noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control (IE, Firefox, Chrome)
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocols Supported User Interface Max. User Access	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Up to 4 zones Supported 3D noise reduction Supported 3D noise reduction Supported G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPPP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control (IE, Firefox, Chrome) 10 Users (includes 2 internal)
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Network Network Network	H.265 / H.264 / MJPEG Main stream: 1080p@60fps Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported 30 noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control (IE, Firefox, Chrome)
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocols Supported User Interface Max. User Access Application Programming Automatic Network Network Network Protocols Supported User Interface Max. User Access Application Programming Automatic Network	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported Supported Supported Supported Supported Supported Supported Supported Bi-directional Alarm / Direction / Customized Mirror G.711a / G.711u / ADPCM / G.722 / AAC-L.C / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPP, B02.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control (IE, Firefox, Chrome) 10 Users (includes 2 internal) ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocols Supported User Interface Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported 3D noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPPP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control (IE, Firefox, Chrome) 10 Users (includes 2 internal) ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI Supported
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocols Supported User Interface Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Up to 4 zones Supported 3D noise reduction Supported 3D noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPRP, 802.1x, NaT, Qos, SMTP, IPv4, IPv6 (optional) IPC Control (IE, Firefox, Chrome) 10 Users (includes 2 internal) ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI Supported
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocols Supported User Interface Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported 3D noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPPP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control (IE, Firefox, Chrome) 10 Users (includes 2 internal) ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI Supported
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocols Supported User Interface Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Up to 4 zones Supported 3D noise reduction Supported 3D noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, GoS, SMTP, IPv4, IPv6 (optional) IPC Control (IE, Firefox, Chrome) 10 Users (includes 2 internal) ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI Supported Alarm input / Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Madio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice /
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocols Supported User Interface Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Up to 4 zones Supported Supported 3D noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPPP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control (IE, Firefox, Chrome) 10 Users (includes 2 internal) ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI Supported Alarm input / Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocols Supported User Interface Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Interfaces	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported 3D noise reduction Supported 3D noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, Qos, SMTP, IPv4, IPv6 (optional) IPC Control (IE, Firefox, Chrome) 10 Users (includes 2 internal) ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI Supported Alarm input / Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocols Supported User Interface Max. User Access Application Programming Automatic Network Rol Alarm Triggers Intelligent Alarm Events Interfaces Ethernet	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported 3D noise reduction Supported 3D noise reduction Supported Mirror G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control (IE, Firefox, Chrome) 10 Users (includes 2 internal) ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI Supported Alarm input / Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocols Supported User Interface Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Interfaces	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported 3D noise reduction Supported 3D noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, Qos, SMTP, IPv4, IPv6 (optional) IPC Control (IE, Firefox, Chrome) 10 Users (includes 2 internal) ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI Supported Alarm input / Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocols Supported User Interface Max. User Access Application Programming Automatic Network Alarm Triggers Intelligent Alarm Events Interfaces Ethernet Audio In / Out Alarm In / Out Memory Slot	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported Supported Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPP, B02.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control (IE, Firefox, Chrome) 10 Users (includes 2 internal) ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI Supported Alarm input / Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Accustic alarm 10/100M, RJ45 interface 1 x Line in / 1 x Line out
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Pefog Image Flip Audio Compression Bitrate Audio Function Network Network Protocols Supported User Interface Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent Alarm Events Ethernet Audio In / Out Alarm In / Out Memory Slot Environmental	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported Supported Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-L.C / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control (IE, Firefox, Chrome) 10 Users (includes 2 internal) ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI Supported Alarm input / Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm 10/100M, RJ45 interface 1 x Line in / 1 x Line out 1 x Input / 1 x Output Built-in Micro SD card (optional), up to 128GB
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocols Supported User Interface Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent Alarm Events Interfaces Ethernet Audio In Out Alarm In Jout Memory Slot Environmental Operating Temperature	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Up to 4 zones Supported 3D noise reduction Supported 3D noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control (IE, Firefox, Chrome) 10 Users (includes 2 internal) ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI Supported Alarm input / Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm 10/100M, RJ45 interface 1 x Line in / 1 x Line out 1 x Input / 1 x Output Built-in Micro SD card (optional), up to 128GB -40°C ~ 60°C / -40°F ~ 140°F
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocols Supported User Interface Max. User Access Application Programming Automatic Network Rol Alarm Triggers Intelligent Alarm Events Interfaces Ethernet Audio In / Out Alarm In / Out Memory Slot Environmental Operating Temperature Operating Humidity	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported Supported Supported Supported Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control (IE, Firefox, Chrome) 10 Users (includes 2 internal) ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI Supported Alarm input / Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm 10/100M, RJ45 interface 1 x Line in / 1 x Line out 1 x Input / 1 x Output Built-in Micro SD card (optional), up to 128GB -40°C ~ 60°C / -40°F ~ 140°F 10% ~ 95%
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocols Supported User Interface Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent Alarm Events Interfaces Ethernet Audio In Out Alarm In Jout Memory Slot Environmental Operating Temperature	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Up to 4 zones Supported 3D noise reduction Supported 3D noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control (IE, Firefox, Chrome) 10 Users (includes 2 internal) ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI Supported Alarm input / Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm 10/100M, RJ45 interface 1 x Line in / 1 x Line out 1 x Input / 1 x Output Built-in Micro SD card (optional), up to 128GB -40°C ~ 60°C / -40°F ~ 140°F
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocols Supported User Interface Max. User Access Application Programming Automatic Network Rol Alarm Triggers Intelligent Alarm Events Interfaces Ethernet Audio In / Out Alarm In / Out Memory Slot Environmental Operating Temperature Operating Humidity	H.265 / H.264 / MJPEG
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Pofog Image Flip Audio Compression Bitrate Audio Function Network Network Protocols Supported User Interface Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent Alarin In Jout Memory Slot Environmental Operating Temperature Operating Temperature Operating Temperature Operating Temperature Operating Temperature Devower Electrical Power	H.265 / H.264 / MJPEG
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocols Supported User Interface Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent Audio In / Out Memory Slot Environmental Operating Temperature Operating Temperature Operating Temperature Operating Temperature Operating Temperature Operating Temperature Devoer Power Consumption	Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported 3D noise reduction Supported Mirror G.7.11u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control (IE, Firefox, Chrome) 10 Users (includes 2 internal) ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI Supported Alarm input / Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm 10/100M, RJ45 interface 1 x Line in / 1 x Line out 1 x Input / 1 x Output Built-in Micro SD card (optional), up to 128GB -40°C ~ 60°C / -40°F ~ 140°F 10% ~ 95% IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocols Supported User Interface Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent Alarm Events Interfaces Ethernet Audio In / Out Memory Slot Environmental Operating Temperature Operating Humidity Protection Level Electrical Power Power Consumption Mechanical	H.265 / H.264 / MJPEG Main stream: 1080p Secondary stream: D1 Main stream: 1080p@60fps Secondary stream: D1@30fps 32kbps ~ 16Mbps VBR / CBR Supported Date and time / Alarm / Direction / Customized Up to 4 zones Up to 4 zones Supported Supported 3D noise reduction Supported Mirror G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 32kbps ~ 64kbps Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) IPC Control (IE, Firefox, Chrome) 10 Users (includes 2 internal) ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI Supported Alarm input / Network disconnect / Disk full / Disk error Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm 10/100M, RJ45 interface 1 x Line in / 1 x Line out 1 x Input / 1 x Output Built-in Micro SD card (optional), up to 128GB -40°C ~ 60°C / -40°F ~ 140°F 10% ~ 95% IP66, TVS 6000V lightning protection, surge protection and voltage transient protection 48V DC ± 25% (Power adapter included) Max. 180W (Laser on)
Housing Glass Video Compression Image Resolution Frame Rate Bitrate Bitrate Bitrate Control Multi-stream Caption Privacy Masking Motion Detection Video Freeze ROI Digital Noise Reduction Digital Defog Image Flip Audio Compression Bitrate Audio Function Network Network Protocols Supported User Interface Max. User Access Application Programming Automatic Network Replenishment (ANR) Alarm Alarm Triggers Intelligent Audio In / Out Memory Slot Environmental Operating Temperature Operating Temperature Operating Temperature Operating Temperature Operating Temperature Operating Temperature Devoer Power Consumption	H.265 / H.264 / MJPEG



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Eye To Eye Security Trading DWC-LLC

BUILDING A5, OFFICE 140, BUSINESS CENTRE,

DUBAI WORLD CENTRAL, UAE, P.O BOX 712821

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