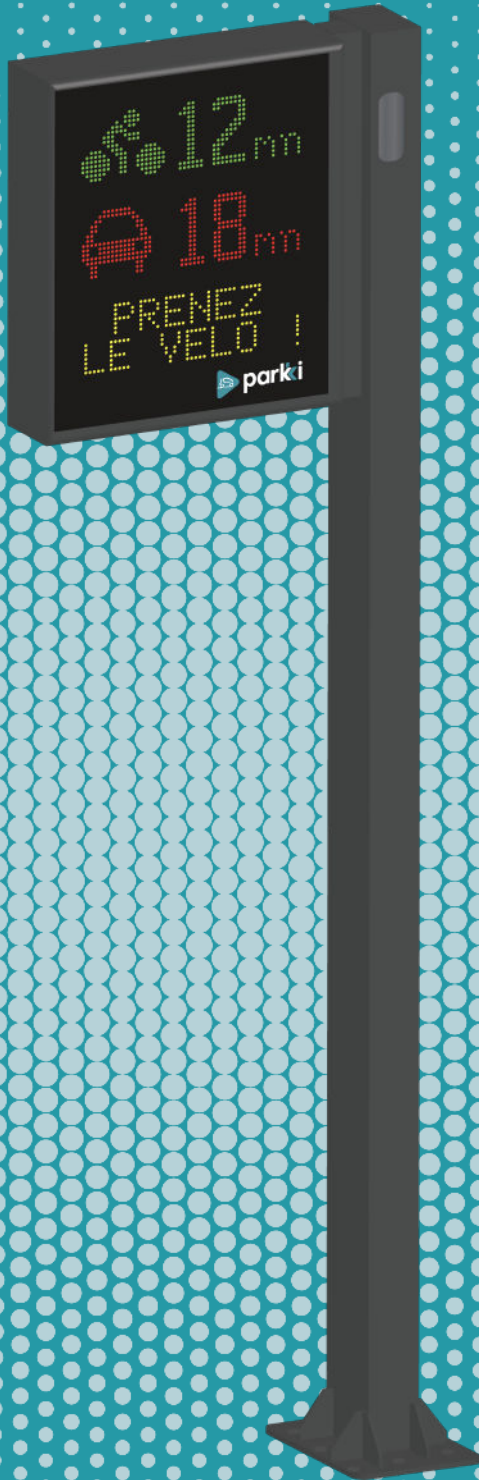




TOTEM VÉLO



FABRIQUÉ
EN FRANCE

MATRICE
LED

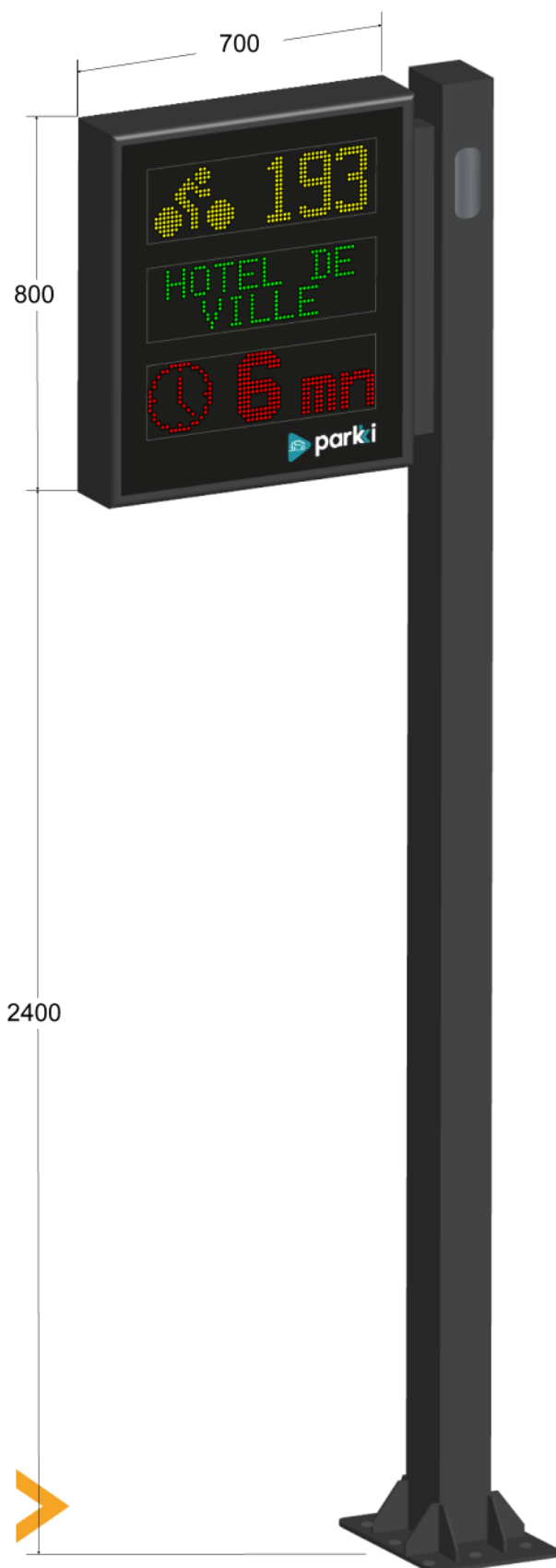
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COMPTAGE



TRICHROME

1. Drapeau dynamique de démonstration 3 lignes en matrices RV de 57x15 colonnes



CARACTERISTIQUES MECANIQUES

- Caisson simple face en aluminium thermo-laqué RAL au choix, de dimensions 700x800x122mm.
- Face arrière en aluminium de 30/10.
- Ouverture de la face avant par pare-close vissée.
- Face avant en PMMA de 5mm avec logo sur fond rétroéclairé par LED blanches. Film de face avant noir mat.
- Fixation latérale en drapeau par 2 pièces emboîtées en « U » en aluminium de 30/10 avec inserts M6 et visserie Inox A2.
- Mât tubulaire en acier de section 150x150x4mm avec découpe frontale pour caméra + plaque en PC de 5mm avec joint. Trappe d'accès en face arrière avec fixation par vis.
- Semelle de fixation en acier entraxe 200x200 avec 4 goussets.

CARACTERISTIQUES OPTOELECTRONIQUES

- 3 x Afficheurs dynamiques trichromes de 140mm de hauteur en matrice 57x15 points (3 cartes de type 140SRV).
- Fonctions d'affichage : texte fixe, défilement, clignotement, alternance, logos graphiques.
- Couleurs affichables : vert, jaune, rouge.
- LED très haute luminosité de 3000mcd, 55° pour l'extérieur de type BlackTopLed de OSRAM.
- Distance de lecture de 50 à 70m.
- Réglage automatique de luminosité par cellule intégrée.

CARACTERISTIQUES ELECTRIQUES

- Ventilation forcée thermostatique avec filtres anti-poussière IP54 accessibles par l'arrière du caisson (T° > 40°C).
- Tropicalisation des cartes électroniques par vernis acrylique 2 couches. Parafoudre modulaire 5KA incorporé.
- Alimentation 230V AC – Puissance moyenne consommée de 10W à 80W en fonction de la luminosité. Puissance de rétro-éclairage de 5W environ.
- Pilotage par protocole Trafic en IP.



SYSTÈME DE COMMUNICATION INTÉGRÉE



DESCRIPTION

Alimentation et connexion data pour 1 à 4 caméras smart parking.

Compatibilité modules :

- Smart parking à la place
- Comptage à l'allée ou à la poche
- LAPI

FONCTIONALITÉS	Connectivité multi-opérateurs 3G/4G Alimentation des Caméras en PoE en 48V (30W maximum par caméra)
ALIMENTATION	230VAC consommation maximum 130W (30W par port donc 120W plus le routeur 9.6W maximum) (4 caméras en PoE)
PERFORMANCE	Jusqu'à 4 caméras en RJ45 Configuration à distance Connectivité 3G/4G
MÉCANIQUE	Intégré en boîtier « Wibox Medium » Dimensions : 27.2cm x 27.6cm x 9.6cm + support pour une attache sur mât ou sur mur
CONNECTIQUE	Connectivité 230V dans boîte de dérivation IP65 Raccordement au réseau électrique 80VAC~264VAC 47~63Hz Connectivité RJ45 par connecteurs IP67 (presse-étoupes) Prise de terre sur fixation mât
CONDITIONS DE FONCTIONNEMENT	Températures : de -20°C à 65° C Humidité de 0 à 95%
GARANTIE	24 mois

R2000 Dual

Industrial Dual Module Cellular VPN Router
with Power over Ethernet



INTRODUCTION

Robustel's R2000 Dual Industrial Dual Module Cellular VPN Router with Power over Ethernet provides fast and reliable communication for monitoring and controlling remote equipment. The added new feature, Power over Ethernet, makes installing or expanding much simpler and cheaper for both power and data transmission.

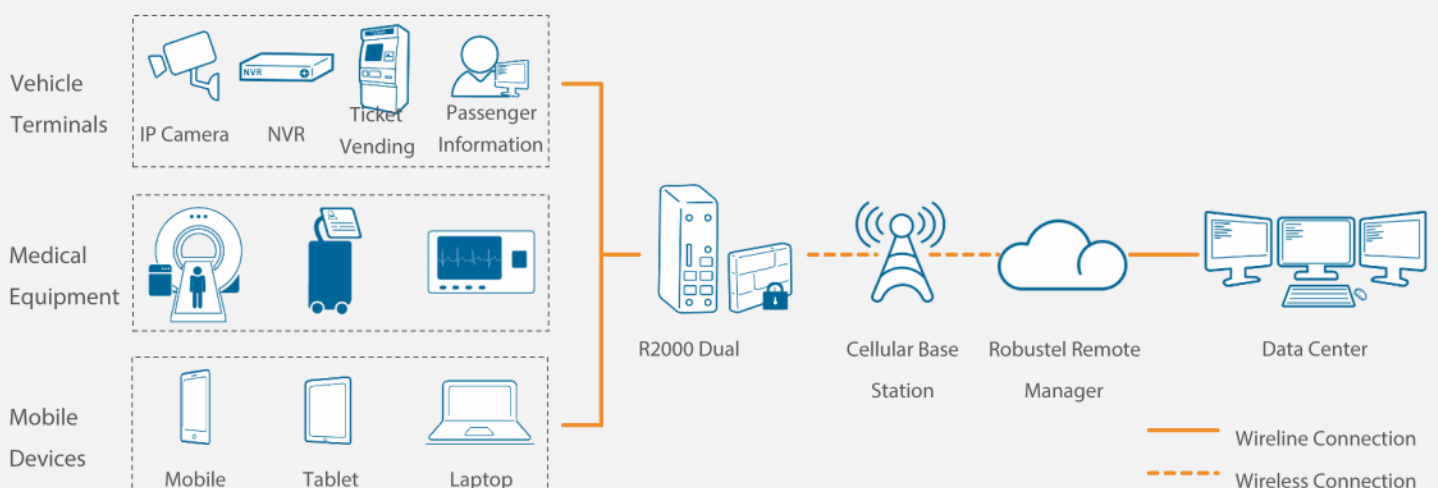
The R2000 Dual router adds the Power over Ethernet (POE) function, which can provide DC power to such devices while transmitting data signals to some IP-based terminal devices. Not only save network construction costs, reduce manpower and material resources, but also facilitate installation and management

Robustel is a leading global industrial IoT/M2M hardware and solution provider. Since its establishment in 2010 in Guangzhou China, Robustel has been focusing on designing and manufacturing industrial cellular routers, gateways, modems, cloud platforms and E2E solutions. In order to support global business in more than 100+ countries and regions, Robustel has set up local offices in Germany, Australia, the Netherlands, the UK, Japan and Hong Kong. The main application areas of the R2000 Dual router are: ATMs, vending machines, telephone booths and other terminals; branches, convenience stores, fast food restaurants, digital signage, IP video surveillance, etc.

KEY FEATURES

- Embedded dual module supports two SIM cards online simultaneously
- Four fast Ethernet LAN port supporting Power over Ethernet (12.95 W of POE/ 30 W of POE+ shared across the four LAN ports)
- The feature Link Manager supports Cellular WAN, WLAN link backup and ICMP detection
- WAN – Static/PPPoE/DHCP Client
- Wi-Fi supports AP mode and Client mode
- VPN tunnel - IPsec/OpenVPN/GRE/L2TP/PPTP/DMVPN
- Auto reboot via SMS/Timing
- Supports RobustLink (a centralized M2M management platform for remote monitoring, configuration and firmware upgrade)
- Management and maintenance via Web user interface/CLI/SMS/RobustLink Cloud
- Supports various APP like QoS, DDNS, VRRP, Captive Portal, SNMP, WLAN multi, multi-language
- Robust industrial design (desktop or wall mounting or DIN rail mounting)

APPLICATION EXAMPLE



SPECIFICATIONS

Cellular Interface

Standards	GSM/GPRS/EDGE/UMTS/WCDMA/HSPA/HSDPA/HSUPA/HSPA+/DGHSPA+/LTE
FDD LTE	max. 150/50 Mbps (DL/UL) @20M BW cat4
TDD LTE	max. 100/50 Mbps (DL/UL)
DC-HSPA+	42/5.76 Mbps (DL/UL)
HSPA+	max. 21.6/5.76 Mbps (DL/UL)
WCDMA	384/384 kbps (DL/UL)
EDGE	236.8 kbps (DL/UL)
GPRS	85.6 kbps (DL/UL)
SIM	2 (3 V & 1.8 V)
Connector	SMA-k (2 x MAIN + 2 x AUX)

Ethernet Interface

Number of ports	1 x WAN and 4 x LAN (10/100 Mbps)
Magnet isolation protection	1.5 KV

WLAN Interface

Standards	802.11b/g/n, supports AP and Client modes
Data speed	150 Mbps
Frequency bands	2.4 GHz
Security	WEP, WPA, WPA2
Encryption	64/128 AES, TKIP
Connector	RP-SMA-K

Device Interface

POE (4 x LAN)	Four ports power supply output IEEE802.3 at/af standard compatibility Maximum power output up to 30 W per port Power management function
Voltage Range	48 to 57V DC
Digital Input (DI)	When router is used in in-vehicle networks, DI function makes router enter a state of low power consumption which can avoid the battery excessive consumption of the vehicle

System

1 x Reset button	
LED indicators	1 x RUN, 2 x PPP, 1 x USB, 2 x NET, 6 x RSSI

Software (Basic features of RobustOS)

Network protocols	PPP, TCP, UDP, DHCP, ICMP, NAT, DMZ, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, SNTP, SSH, Telnet, SNMP, AAA etc.
VPN tunnel	IPsec/OpenVPN/GRE/L2TP/PPTP/DMVPN
Firewall	SPI, anti-DoS, Filter, Access Control
Management	Web, CLI, SMS

Power Supply and Consumption

Connector	3.5 mm terminal socket
Input voltage	9 to 57V DC
Power consumption	Idle: 100 mA@12 V Data link: 800 mA (peak) @12 V
With ground screw	

Physical Characteristics

Housing & Weight	Metal, 750 g
Dimensions	145 x 130 x 46 mm
Installations	Desktop, wall mounting and 35 mm DIN rail mounting

Approvals

Regulatory	RCM, CE, EAC,
Environmental	RoHS2.0, WEEE
EMI	EN 55032: 2015/AC: 2016 (CE & RE) Class B
EMS	IEC 61000-4-2 (ESD) Contact Level 2; Air Level 3 IEC 61000-4-3 (RS) Level 2 IEC 61000-4-4 (EFT) Level 2 IEC 61000-4-5 (Surge) Level 3 IEC 61000-4-6 (Cs) Level 2

ORDERING INFORMATION

Model	R2000-D3P1	R2000-D3P2	R2000-D4L1	R2000-D4L2
Router Type	HSPA+Router	HSPA+Router	LTE Router	LTE Router
Air Interface	GSM/GPRS/EDGE/HSDPA/HSUPA/HSPA+	GSM/GPRS/EDGE/HSDPA/HSUPA/HSPA+	GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/HSPA+/DGHSPA+/TD-SCDMA/CDMA(CDMA 1X/EVDO)/FDD LTE/TDD LTE	GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/HSPA+/DGHSPA+/TD-SCDMA/CDMA(CDMA 1X/EVDO)/FDD LTE/TDD LTE
Frequency Bands	--	--	EMEA: B1/B3/B5/B7/B8/B20; B38/B40/B41 AU: B1/B2/B3/B4/B5/B7/B8/B28; B40	EMEA: B1/B3/B5/B7/B8/B20; B38/B40/B41 AU: B1/B2/B3/B4/B5/B7/B8/B28; B40
4G*				
3G	B1/B2/B4(AWS)/B5/B8/B19	B1/B2/B4(AWS)/B5/B8/B19	EMEA: B1/B5/B8 AU: B1/B2/B5/B8	EMEA: B1/B5/B8 AU: B1/B2/B5/B8
2G	B2/B3/B5/B8	B2/B3/B5/B8	EMEA: B3/B8 AU: B2/B3/B5/B8	EMEA: B3/B8 AU: B2/B3/B5/B8
Operating Temperature	-25 to +70 °C	-25 to +70 °C	-25 to +70 °C	-25 to +70 °C
Storage Temperature	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
Relative Humidity	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH

*For more information about 4G frequency bands in different countries, please contact your Robustel sales representative.



SYSTÈME DE DéTECTION INTÉGRÉ

iDS-2CD7146G0-IZS 4 MP IR Varifocal Dome Network Camera

DarkFighter



▪ DeepinView^{series}

- High quality imaging with 4 MP resolution
- Excellent low-light performance via DarkFighter technology
- Clear imaging against strong back light due to 140 dB WDR technology
- Efficient H.265+ compression technology to save bandwidth and storage
- 5 streams to meet a wide variety of applications
- Vandal proof (IK10)



▪ Function

Face Recognition

With embedded deep learning based algorithms, the camera is able to give the best shot of a target face through detecting, capturing, grading and selecting. The camera uses face exposure function to dynamically adjust face area exposure of captures and ensures high face picture quality.

Perimeter Protection

With embedded deep learning based target detection and classification algorithms, the camera carries out the duty of perimeter protection, monitoring the actions of line crossing, intrusion, region entrance, and region exiting. The algorithms greatly filter out the mistaken alarm caused by the interference of leaves, lights, animal, flag, etc.

Multi-Target-Type Detection

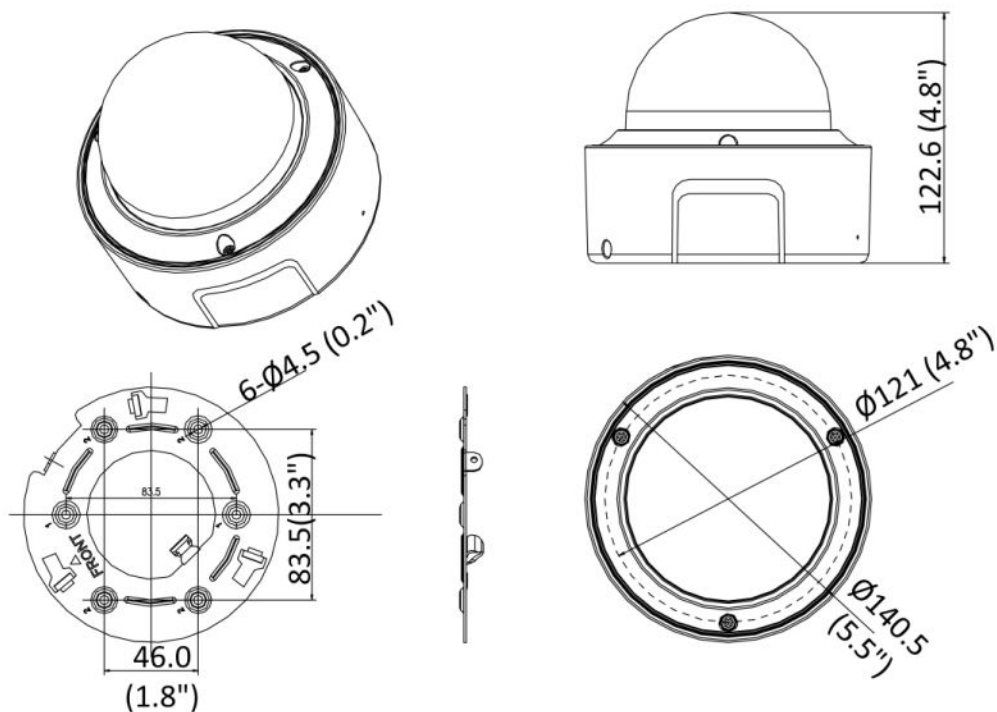
With the embedded deep learning algorithms, the camera detects and captures the face, human body, vehicle in the specified region.

▪ Specification

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	2560 × 1440
Min. Illumination	Color: 0.0005 Lux @ (F1.2, AGC ON); B/W: 0.0001 Lux @ (F1.2, AGC ON), 0 Lux with IR
Shutter Time	1 s to 1/100,000 s
Day & Night	IR cut filter Blue glass module to reduce ghost phenomenon
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°
Lens	
Focal Length & FOV	2.8 to 12 mm, horizontal FOV: 114.5° to 41.8°, vertical FOV: 59.3° to 23.6°, diagonal FOV: 141.1° to 48° 8 to 32 mm, horizontal FOV: 42.5° to 15.1°, vertical FOV: 23.3° to 8.64°, diagonal FOV: 49.6° to 17.3°
Focus	Auto, semi-auto, manual
Iris Type	P-iris
Aperture	2.8 to 12 mm: F1.2 to 2.5 8 to 32 mm: F1.7 to F1.73
DORI	
DORI	Wide: 2.8 to 12 mm: D: 60 m, O: 23.8 m, R: 12 m, l: 6 m 8 to 32 mm: 150.3 m, O: 59.7 m, R: 30.1 m, l: 15 m Tele: 2.8 to 12 mm: D: 149 m, O: 59.1 m, R: 29.8 m, l: 14.9 m 8 to 32 mm: D: 400 m, O: 158.7 m, R: 80 m, l: 40 m
Illuminator	
Supplement Light Type	IR
Supplement Light Range	2.8 to 12 mm: 30 m 8 to 32 mm: 50 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
Video	
Main Stream	50 Hz: 50 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 60 fps (2560 × 1440, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (704 × 480, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Fourth Stream	50 Hz: 25 fps (704 × 480, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
Fifth Stream	50 Hz: 25 fps (704 × 480, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
Video Compression	H.265+/H.265/H.264+/H.264/MJPEG
Video Bit Rate	32 Kbps to 8 Mbps
H.264 Type	Baseline Profile/Main Profile/High Profile

H.265 Type	Baseline Profile/Main Profile/High Profile
Bit Rate Control	CBR/VBR
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	4 fixed regions for main stream, sub-stream, third stream, fourth stream and fifth stream
Target Cropping	Yes
Audio	
Audio Type	Mono sound
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/AAC/MP3
Audio Bit Rate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/16 to 64 Kbps (AAC) /8 to 320 Kbps (MP3)
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Environment Noise Filtering	Yes
Network	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS
Simultaneous Live View	Up to 20 channels
API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP
User/Host	Up to 32 users 3 user levels: administrator, operator, and user
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2
Network Storage	NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Together with highend Hikvision memory card, memory card encryption and health detection are supported.
Client	iVMS-4200, Hik-Connect
Web Browser	Plug-in required live view: IE9+, Chrome 41.0 to 44, Firefox 30.0 to 51, Safari 8.0 to 11 Plug-in free live view: Chrome 45.0+, Firefox 52.0+ Not recommended: Safari 11+, Edge
Image	
Image Parameters Switch	Yes
Image Settings	Saturation, brightness, contrast, sharpness, white balance, and AGC adjustable by client software or web browser
Day/Night Switch	Day, Night, Auto, Schedule, Alarm Trigger
Wide Dynamic Range (WDR)	140 dB
SNR	≥ 52 dB
Image Enhancement	BLC, HLC, Defog, 3D DNR
Privacy Mask	8 programmable polygon privacy masks, mask color or mosaic configurable
Image Stabilization	EIS
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format
Interface	
Video Output	1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging)

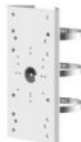
Ethernet Interface	1 RJ45 10 M/100 M/1000 M self -adaptive Ethernet port
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 256 GB
Audio	1 input (line in), 1 output (line out), 3.5 mm connector, 1 built-in microphone
Alarm	1 input, 1 output (max. 24 VDC, 1 A)
RS-485	1 RS-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Reset Key	Yes
Power Output	12 VDC, max. 100 mA
Event	
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, abnormal reboot, HDD full, HDD error), video quality diagnosis
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, audio exception detection, scene change detection, defocus detection
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture
Deep Learning Function	
Multi-target-type Detection	Supports simultaneous detection and capture of human body, face and vehicle; Get face features, 13 human body features and 2 vehicle features
Face Capture	1. Detects up to 60 faces simultaneously 2. Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30° 3. Uploads face with background and closed-up face pictures
Face Comparison	Up to 10 face libraries. Up to 30,000 faces for each library. 150,000 faces in total. Supports face library encryption
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle)
General	
Power	12 VDC± 20%, 1.02 A, max. 12.4 W, two-core terminal block 24 VAC± 20%, 0.49 A, max. 11.8 W, two-core terminal block PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.22 A to 0.29 A, max. 12.5 W
Material	Aluminum alloy body
Dimension	Ø140.5 × 122.6 mm (Ø5.5" × 4.8")
Package Dimension	244 × 174 × 173 mm (9.6" × 6.9" × 6.8")
Weight	Approx. 875 g (1.93 lb.)
With Package Weight	Approx. 1415 g (3.11 lb.)
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Language	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
General Function	Heartbeat, mirror, password protection, watermark, privacy mask, IP address filter, one-key reset, five streams



Unit: mm(inch)

▪ Accessory

▪ Optional

DS-1227ZJ In-Ceiling Mount	DS-1281ZJ-DM23 Inclined Ceiling Mount	DS-1276ZJ-SUS Corner Mount	DS-1273ZJ-130B Wall Mount	DS-1273ZJ-130 Wall Mount
				
DS-1275ZJ-SUS Vertical Pole Mount	DS-1271ZJ-130 Pendant Mount			
				

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