

CCR2004-16G-2S+

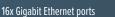
This powerful and affordable router crushes all previous CCR models in single-core performance.

Luxury you deserve for the price you can afford.



Best single-core performance in the CCR family Built-in dual redundant power supplies









RJ-45 console port

2x 10G SFP+ cages

Like the other models in CCR2004 series, this CCR also features the Amazon Annapurna Labs Alpine v2 CPU with 4x 64-bit ARMv8-A Cortex-A57 cores running at 1,7GHz. But here's the difference. This powerful router crushes all previous CCR models in single-core performance, and that is the most important aspect when it comes to heavy operations based on per-connection processing. Like queues, for example.

But that's not all! It also has the best single-core performance per watt and best overall performance per watt among all the CCR devices. **Better for the planet, better for the bills, it's a win-win!**



The new router has 18 wired ports, including 16x Gigabit Ethernet ports and two 10G SFP+ cages. It also has a RJ-45 console port on the front panel.

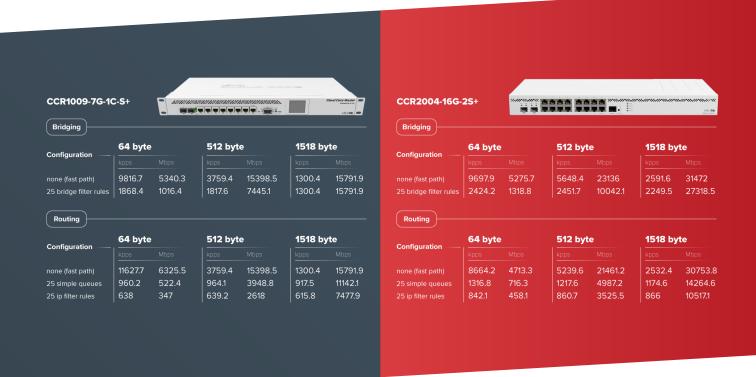
Like all CCR devices, it comes in a classic white 1U rackmount case. Built-in dual redundant power supplies are included, so you have one less thing to worry about. And, of course, there is active cooling to keep things nice and cool.

Each group of 8 Gigabit Ethernet ports is connected to a separate Marvell Amethyst family switch-chip. Each switch chip has a 10 Gbps full-duplex line connected to the CPU. The same goes for each SFP+ cage - a separate 10 Gbps full-duplex line. Boards come with 4GB of DDR4 RAM and 128MB of NAND storage.



MikroTik

So as you can see - no bottlenecks. As long as the CPU can handle the processing, all ports can reach wire speed. And this CPU is a beast that can handle a lot. If we look at the performance, you can see that it is trading blows with our CCR1009. Even surpassing it in CPU-heavy configurations! And if that wasn't enough – it can even reach the performance of CCR1016.



The best part? This brand new CCR is among the most affordable options out there - not only within the CCR series, but on the market in general.

One of the most common ways to use this device would be: Gigabit Ethernet ports for the internal network; SFP+ ports for downlink and uplink. The perfect all-in-one solution for small and medium-sized businesses. Easy and efficient.

With the new CCR2004, you can take your office network to the next level. Without breaking the bank.



MikroTik

Specifications

Product code	CCR2004-16G-2S+
CPU	AL32400 1.7 GHz
CPU architecture	ARM 64bit
CPU core count	4
Size of RAM	4 GB
RAM type	DDR4
Storage	128 MB, NAND
Number of 1G Ethernet ports	16
Number of 10G SFP+ ports	2
Operating system	RouterOS v7 only
Switch chip model	88E6191X, 88E619X
Dimensions	443 x 210 x 44 mm
Operating temperature	-20°C to +60°C

Powering

Number of AC inputs	2
AC input range	100-240 V
Max power consumption (without attachments)	35 W
Max power consumption	48 W

Certification & Approvals

Certification	CE, FCC, IC

Included parts





CRS328-24P-4S+RM

CRS328-24P-4S+RM is a 28 independent port switch, it has 24 Gigabit Ethernet ports, which offer different power output options: Passive PoE, low voltage PoE, 802.3af/at (Type 1 "PoE" / Type 2 "PoE+") with auto-sensing. The four SFP+ ports provide up to 10 Gbps connectivity options via either optical fiber or Ethernet modules (not included).

CRS328-24P-4S+RM comes in a 1U rackmount case with 100-240 V AC 500 W power supply built-in. The device consumes up to 44 W leaving guaranteed 450 W (3x150 W per every 8 Ethernet ports) to power your PoE devices. Each port can provide up to 30 W with high voltage, and 26 W with low voltage power output.

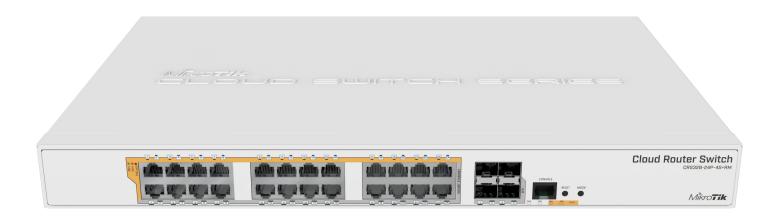
The device has a "Dual boot" feature that allows you to choose between two operating systems - RouterOS or SwOS. If you prefer to have a simplified operating system with only switch specific features, use SwOS. If you would like the ability to use routing and other Layer 3 features in your CRS, use RouterOS. You can select the desired operating system from RouterOS, from SwOS or from the RouterBOOT loader settings. All the feature set comes with our disruptive price, providing best price/performance on the market.

Switching features

- Non-blocking Layer 2 switching capacity
- 16K host table
- IEEE 802.1Q VLAN
- Supports up to 4K simultaneous VLANs
- Port isolation
- Port security
- Broadcast storm control
- Port mirroring of ingress/egress traffic
- STP / RSTP / MSTP
- Access Control List
- MikroTik neighbor discovery
- SNMP
- 10218-byte jumbo frames support
- IGMP snooping
- IEEE 802.3ad and static link aggregation

Quick specifications

- 24 Gigabit Ethernet ports
- 4 SFP+ ports
- RJ45 serial console port
- Non-Blocking throughput: 64 Gbps
- Switching capacity: 128 Gbps
- Forwarding rate: 95.2 Mpps
- Maximum power consumption: 44 W (without PoE devices connected)
- Supports PoE+ IEEE 802.3at/af and 26 V Passive PoE)
- Temperature based fan control
- 1U rackmount
- Selectable power output per port (26 / 53 V)





Specifications

Product code	CRS328-24P-4S+RM
CPU	98DX3236A1 800 MHz
RAM	512 MB
Storage type	Flash
Storage size	16 MB
Switch chip model	98DX3236A1
10/100/1000 Ethernet ports	24
SFP+ cages	4
Operating system	SwOS / RouterOS (Dual boot)
Supported input voltage	100 - 240 V
Dimensions	443 x 300 x 44 mm
Operating temperature	-20°C +60°C tested
Max power consumption	44 W
Serial port	RJ45
License level	5





CRS326-24G-2S+RM

We are announcing a special version of the CSS326-24G-2S+RM switch, with added RouterOS as a second boot option, the new CRS326-24G-2S+RM.

This is a SwOS/RouterOS powered 24 port Gigabit Ethernet switch with two SFP+ ports, wire speed connectivity with several new switching features!

The "Dual boot" feature that allows you to choose which operating system you prefer to use, RouterOS or SwOS. If you prefer to have a simplified switch only OS with more switch specific features, use SwOS. If you are used to Winbox and would like the ability to use routing and other Layer 3 features on some ports in your CRS, boot and use RouterOS. You can select the desired operating system from RouterOS, from SwOS or from the RouterBOOT loader settings.

It gives you all the basic functionality for a managed switch, plus more: allows to manage port-to-port forwarding, apply MAC filter, configure VLANs, mirror traffic, apply bandwidth limitation and even adjust some MAC and IP header fields. SFP cage supports both 1.25 Gb SFP and 10 Gb SFP+ modules.

Specifications

Product code	CRS326-24G-2S+RM
CPU	98DX3236A1 800 MHz
RAM	512 MB
Storage type	Flash, 16 MB
Switch chip model	98DX3236A1
10/100/1000 Ethernet ports	24
SFP+ cages	2
Operating system	SwOS /RouterOS (Dual boot)
Supported input voltage	9 - 30 V (jack or passive PoE)
Dimensions	443 x 144 x 44 mm
Operating temperature	-40°C +60°C tested
Max power consumption	24 W
Serial port	RJ45

Features

- Non-blocking Layer 2 switching capacity
- 16K host table
- IEEE 802.1Q VLAN
- Supports up to 4K VLANs
- Port isolation
- Port security
- Broadcast storm control
- Port mirroring of ingress/egress traffic
- Rapid Spanning Tree Protocol
- Access Control List
- MikroTik neighbor discovery
- SNMP v1
- Web-based GUI

Included





24 V 1.2 A power adapter

Screw set





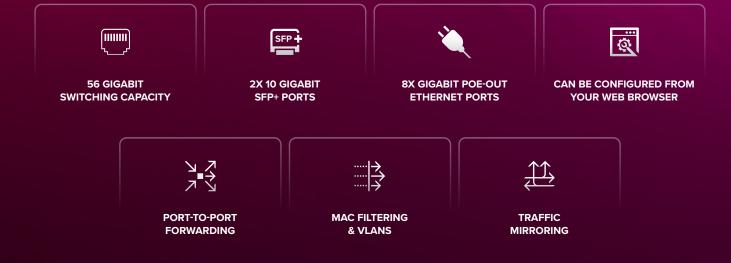




CSS610-8P-2S+IN

Your compact, affordable PoE powerhouse



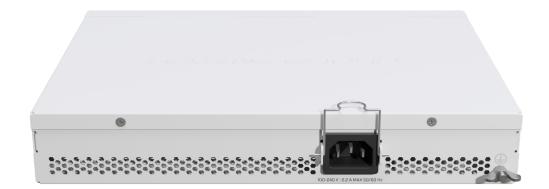


CSS610-8P-2S+IN is one of the most well-rounded switches on the market. It is a perfect fit for the most diverse setups: from home networks and small offices to hotels, call centers and so on. The unique combination of size, features, and price offers unbelievable scalability potential.

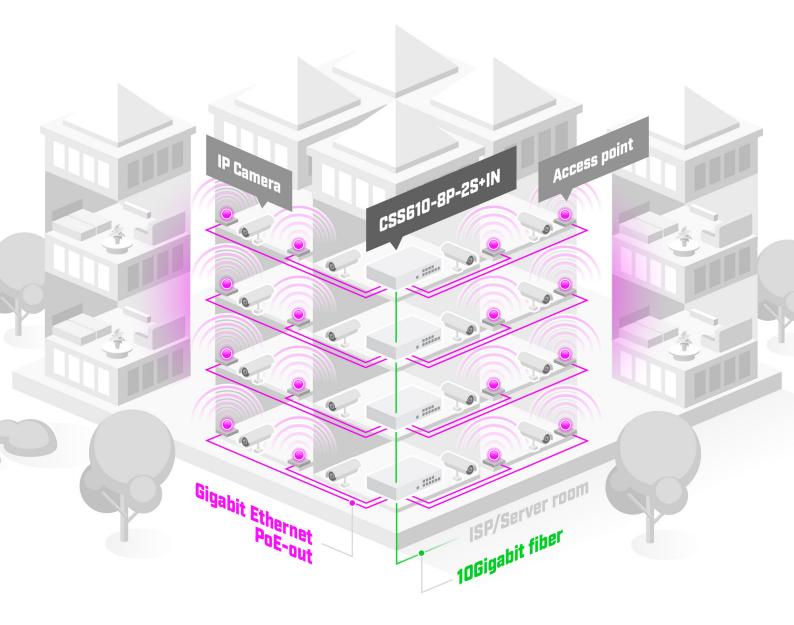


There are two SFP+ ports for 10 Gigabit fiber connectivity and eight Gigabit Ethernet ports with 802.3af/at PoE-out.

This switch is all about nice and easy setups. The compact form-factor means easier shipping and handling, while the lightweight SwOS means easier configuration. You can even configure this switch from your web browser! It gives you all the core functionality of a managed switch, and even more: you can manage **port-to-port forwarding**, **broadcast storm control**, apply **MAC filters**, configure **VLANs**, **mirror traffic, apply bandwidth limitations**, and even **adjust some MAC and IP header fields**.



But the real blessing is the combination of **SFP+** and **PoE-out Ethernet** ports. With this setup, you can do all kinds of things on a tight budget. CSS610 has an impressive total **PoE-out budget of 140 W**, so you can use even in the most intense scenarios – like hotels, conference halls, or call centers! Use the PoE-out ports to connect the IP-phones while the SFP+ ports connect your primary server to the ISP. Or power a bunch of network cameras and instantly upload the footage to the cloud. And manage a cluster of wireless access points at the same time. Also, scalability is no longer a problem. With our pricing, you can afford a switch on every floor!



Like every toolbox needs screwdrivers and pliers, every network can use a solid PoE switch.

CSS610-8P-2S+IN – a solid choice!

• Specifications

Product code	CSS610-8P-2S+IN
Number of 1G Ethernet ports	8
Number of 10G SFP+ ports	2
Switch chip model	88E6193X
Dimensions	272 x 216 x 50 mm
Operating temperature	-40°C to +70°C

Powering

Number of DC inputs	1	
DC jack input Voltage	48-57 V	
Number of AC inputs	1	
Nominal voltage	54 V	
Nominal current	2.8 A	
AC input range	100-240 V	
Max power consumption (without attachments)	12 W	
Max power consumption	162 W	
PoE-out	802.3af/at & Passive PoE	
Smart PoE	Controller	
PoE-out portsEther1-Ether8, max out per port output (input < 30 V): 1000 m. max out per port output (input > 30 V): 625 mA		
Total output power	140 W	

Included parts



Power cord

Fastening set

Rack ears



DS-7608NI-K1/8P (D) NVR

Key Feature

- Up to 8-ch IP camera inputs
- H.265+/H.265/H.264+/H.264 video formats
- Up to 1-ch@8 MP/3-ch@4 MP/6-ch@1080p decoding capacity
- Up to 80 Mbps incoming bandwidth



Professional and Reliability

• H.265+ compression effectively reduces the storage space by up to 75%

HD Video Output

- Provide simultaneous HDMI and VGA outputs
- HDMI video output at up to 4K resolution

Storage and Playback

- 1 SATA interface for HDD connection (up to 8 TB capacity per HDD)
- Smart search/smart playback to improve the playback efficiency

Smart Function

- 4-ch Motion Detection 2.0
- Support multiple VCA (Video Content Analytics) events
- Configurable special camera smart functions, such as VCA detection (motion, line crossing, intrusion, etc.)

Network & Ethernet Access

- 8 independent PoE network interfaces
- 1 self-adaptive 10/100 Mbps Ethernet interface
- Hik-Connect for easy network management



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Specification

Motion Detection 2.0			
Human/Vehicle Analysis	4-ch		
Video and Audio			
IP Video Input	8-ch		
Incoming Bandwidth	80 Mbps		
Outgoing Bandwidth	80 Mbps		
HDMI Output	1-ch, 4K (4096 x 2160)/30 Hz, 4K (3840 x 2160)/30 Hz, 2K (2560 x 1440)/60 Hz, 1920 x		
	1080/60 Hz, 1600 x 1200/60 Hz, 1280 x 1024/60 Hz, 1280 x 720/60 Hz		
VGA Output	1-ch, 1920 × 1080/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz		
Video Output Mode	HDMI/VGA simultaneous output		
Audio Output	1-ch, RCA (Linear, 1 KΩ)		
Two-Way Audio	1-ch, RCA (2.0 Vp-p, 1kΩ)		
Decoding			
Decoding Format	H.265+/H.265/H.264+/H.264		
Recording Resolution	8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/ 720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF		
Synchronous playback	8-ch		
Decoding Capability	1-ch@8 MP (30 fps)/3-ch@4 MP (30 fps)/6-ch@1080p (30 fps)		
	*: The length or width of camera resolution (each track) cannot exceed 4096 pixels.		
Stream Type	Video, Video & Audio		
Audio Compression	G.711ulaw/G.711alaw/G.722/G.726		
Network			
Remote Connection	32		
Network Protocol	TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP,		
Network Protocol	UPnP™, HTTP, HTTPS		
Network Interface	1 RJ-45 10 /100 Mbps self-adaptive Ethernet interface		
РоЕ			
Interface	8-ch, RJ-45 10/100 Mbps self-adaptive Ethernet interface		
Power	≤ 75 W		
Standard	IEEE 802.3 af/at		
Auxiliary Interface			
SATA	1 SATA interface		
Capacity	Up to 8 TB capacity for each disk		
USB Interface	2 × USB 2.0		
Alarm In/Out	N/A (4/1 is optional)		



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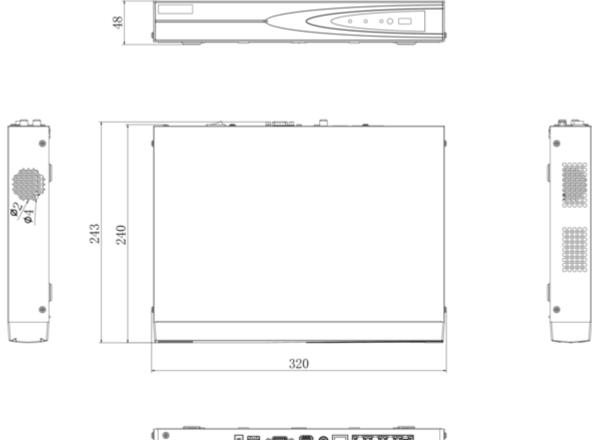
General		
Power Supply	48 VDC, 1.88 A	
Consumption	\leq 10 W (without HDD and PoE off)	
Working Temperature	-10 °C to 55 °C (14 °F to 131 °F)	
Working Humidity	10% to 90%	
Dimension ($W \times D \times H$)	320 × 240 × 48 mm (12.4" × 9.4" × 1.9")	
Weight	\leq 1 kg (without HDD, 2.2 lb.)	
Certification		
FCC	Part 15 Subpart B, ANSI C63.4-2014	
CE	EN 55032: 2015, EN 61000-3-2, EN 61000-3-3, EN 50130-4, EN 55035: 2017	

Note:

Alarm in/out can be optional for certain models. If you select a device model with "/ALARM", then the device will have 4 alarm inputs and 1 alarm output.



Dimension

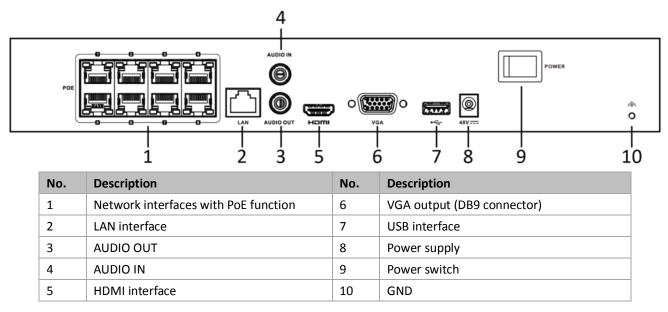




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Physical Interface



Available Model

DS-7608NI-K1/8P (D)

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DS-7616NI-K2/16P NVR

Key Feature

- Up to 16-ch IP camera inputs
- H.265+/H.265/H.264+/H.264 video formats
- Up to 2-ch@8 MP or 4-ch@4 MP or 8-ch@1080p decoding capacity
- 1 HDMI and 1 VGA interfaces, both interfaces support independent video output
- 2 SATA interfaces for HDD connection (up to 10 TB capacity per HDD)
- Up to 160 Mbps incoming bandwidth
- Plug-and-play with 16 power over Ethernet (PoE) interfaces



Professional and Reliability

- H.265+ compression effectively reduces the storage space by up to 75%
- Adopt stream over TLS encryption technology which provides more secure stream transmission service

HD Video Output

- Provide independent HDMI and VGA outputs
- HDMI video output at up to 4K resolution

Storage and Playback

- 2 SATA interfaces for HDD connection (up to 10 TB capacity per HDD)
- 16-ch synchronous playback

Smart Function

- Support multiple VCA (Video Content Analytics) events
- Configurable special camera smart functions, such as VCA detection (motion, line crossing, intrusion, etc.) and ANPR

Network & Ethernet Access

- 1 self-adaptive 10/100/1000 Mbps Ethernet interface
- 16 independent PoE network interfaces
- Hik-Connect for easy network management



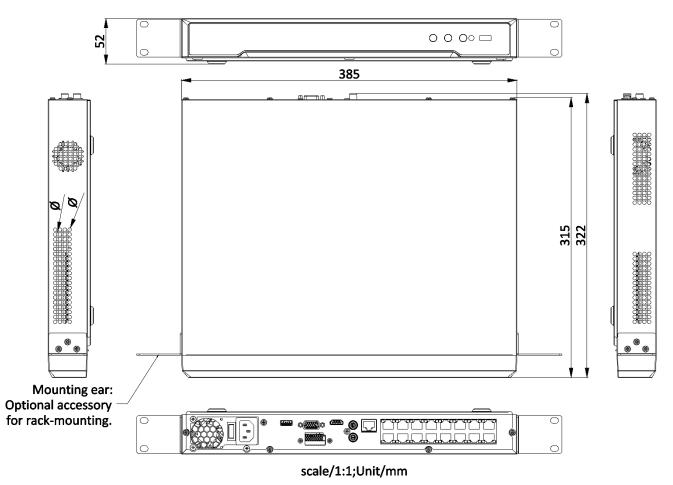
Specification

IP Video Input	16-ch		
Incoming Bandwidth	160 Mbps		
Outgoing Bandwidth	160 Mbps		
HDMI Output	4K (3840 × 2160)/30 Hz, 2K (2560 × 1440)/60 Hz, 1920 × 1080/60 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz		
VGA Output	1920 × 1080/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz		
Video Output Mode	HDMI/VGA independent output		
Audio Input	1-ch, RCA (2.0 Vp-p, 1 KΩ)		
Audio Output	1-ch, RCA (Linear, 1 KΩ)		
Two-Way Audio	1-ch, RCA (2.0 Vp-p, 1 KΩ, using the audio input)		
Decoding			
Decoding Format	H.265/H.265+/H.264/H.264+		
Recording Resolution	8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF		
Synchronous Playback	16-ch		
Decoding Capability	2-ch@8 MP (30 fps)/4-ch@4 MP (30 fps)/8-ch@1080p (30 fps)		
Stream Type	Video, Video & Audio		
Audio Compression	G.711ulaw/G.711alaw/G.722/G.726		
Network			
Remote Connection	128-ch		
Network Protocol	TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS		
Network Interface	1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface		
PoE			
Interface	16, RJ-45 10/100 Mbps self-adaptive Ethernet interface		
Power	≤ 200 W		
Standard	IEEE 802.3 af/at		
Auxiliary Interface			
SATA	2 SATA interfaces		
Capacity	Up to 10 TB capacity for each HDD		
USB Interface	Front panel: 1 × USB 2.0; Rear panel: 1 × USB 2.0		
Alarm In/Out	4/1		
General			
Power Supply	100 to 240 VAC, 50 to 60Hz		
Consumption	\leq 15 W (without HDD and PoE off)		

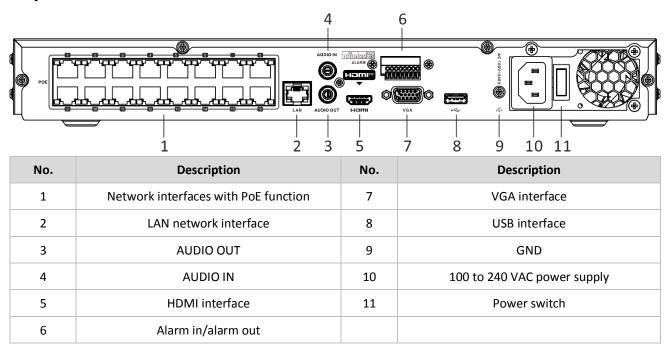


Working Temperature	-10 °C to 55 °C (14 °F to 131 °F)	
Working Humidity	10 to 90 %	
Dimension (W \times D \times H)	385 × 315× 52 mm (15.2" × 12.4" × 2.0")	
Weight	\leq 3 kg (without HDD, 6.6 lb.)	
Certification		
FCC	Part 15 Subpart B, ANSI C63.4-2014	
CE	EN 55032: 2015, EN 61000-3-2, EN 61000-3-3, EN 50130-4, EN 55035: 2017	

Dimension



Physical Interface



Available Model

DS-7616NI-K2/16P

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DS-7700NI-K4 Series NVR

Key Feature

- H.265+/H.265/H.264+/H.264 video formats
- Up to 8/16/32-ch IP camera inputs
- Up to 2-ch @ 8MP or 4-ch @ 4MP or 8-ch @ 1080P decoding capacity
- 1 HDMI and 1 VGA interfaces: both interfaces support independent video output
- 4 HDDs for continuous video recording
- Up to 80/160/256 Mbps incoming bandwidth



Professional and Reliability

- H.265+ compression effectively reduces the storage space by up to 75%
- Adopt stream over TLS encryption technology which provides more secure stream transmission service

HD Video Output

- Provide independent HDMI and VGA outputs
- HDMI video output at up to 4K resolution

Storage and Playback

- 4 SATA interfaces for HDD connection (up to 10 TB capacity per HDD)
- 8/16-ch synchronous playback

Smart Function

- Support multiple VCA (Video Content Analytics) events
- Configurable special camera smart functions, such as VCA detection (motion, line crossing, intrusion, etc.), heat map, ANPR, and people counting

Network & Ethernet Access

- 2 self-adaptive 10/100/1000 Mbps Ethernet interfaces
- Hik-Connect for easy network management







Specification

Model	DS-7708NI-K4	DS-7716NI-K4	DS-7732NI-K4
Video and Audio			
	8-ch	16-ch	32-ch
IP video input	Up to 12 MP resolution		
Incoming			
bandwidth	80 Mbps	160 Mbps	256 Mbps
Outgoing	160 Mbps		
bandwidth			
	1-ch, 4K (3840 x 2160)/30 Hz	z, 2K (2560 x 1440)/60 Hz, 19	920 x 1080/60 Hz, 1600 x
HDMI output	1200/60 Hz, 1280 x 1024/60	Hz, 1280 x 720/60 Hz, 1024	x 768/60Hz
VGA output	1-ch, 1920 × 1080/60 Hz, 12	80 × 1024/60 Hz, 1280 × 720)/60 Hz, 1024 x 768/60Hz
Video output	UDM///CA independent out		
mode	HDMI/VGA independent out	րու	
CVBS output	N/A		
Audio output	1-ch, RCA (Linear, 1 KΩ)		
Two-way audio	1 ab DCA (2.0.)/p p 1.KO us	ing the qudie input)	
input	1-ch, RCA (2.0 Vp-p, 1 KΩ, us	ing the audio input)	
Decoding			
Decoding	H.265/H.265+/H.264/H.264+	L	
format	1.203/11.203+/11.204/11.204		
Recording	12 MD/8 MD/6 MD/5 MD/4 N	1D/2 MD/1080n/UVCA/720r	o/VGA/4CIF/DCIF/2CIF/CIF/QCIF
resolution			J/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Synchronous	8-ch	16-ch	
playback		10 011	
Capability	1-ch@12MP (30fps)/2-ch@8	3 MP (30 fps)/4-ch@4 MP (3	0 fps)/8-ch@1080p(30 fps)
Stream type	Video, Video & Audio		
Audio	G.711ulaw/G.711alaw/G.722	2/G 726	
compression		-, -, -, -, -, -, -, -, -, -, -, -, -, -	
Network			
Remote	64-ch 128-ch		128-ch
connection			
Network		nect, DNS, DDNS, NTP, RTSP	, SADP, SMTP, SNMP, NFS, iSCSI,
protocol	ISUP, UPnP [™] , HTTP, HTTPS		
Network	2, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interfaces		
interface			
Auxiliary Interface			
Serial interface	2 RS-485 (half-duplex), 1 RS-232		
SATA	4 SATA interfaces		
Capacity	Up to 10TB capacity for each		
Alarm in/out ¹	16/4 16/4 (16/9 is optional)		
USB interface	Front panel: 2 × USB 2.0; Rear panel: 1 × USB 3.0		
General	General		
Power supply	100 to 240 VAC, 50 to 60Hz		



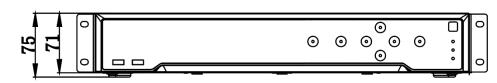
Consumption (without HDD)	≤ 20 W	
Working temperature	-10 °C to 55 °C (14 °F to 131 °F)	
Working humidity	10% to 90%	
Dimension (W × D × H)	445 × 400 ×71 mm (17.5"× 15.7" × 2.8")	
Weight (without HDD)	≤ 5 kg (11 lb.)	
Certification		
FCC	Part 15 Subpart B, ANSI C63.4-2014	
CE	EN 55032: 2015, EN 61000-3-2, EN 61000-3-3, EN 50130-4, EN 55035: 2017	

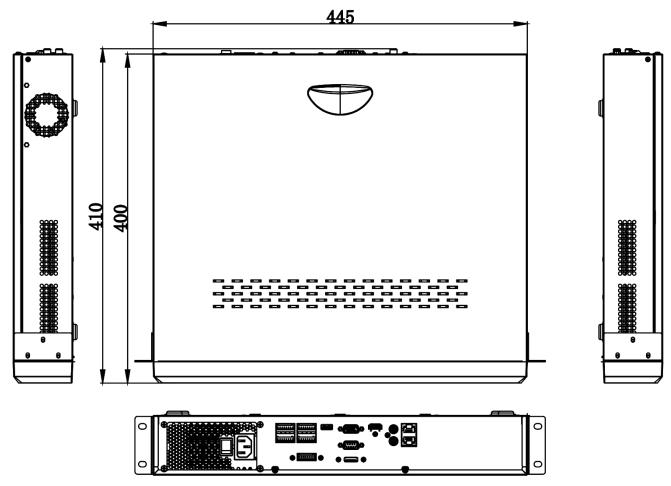
Note:

1: Alarm in/out can be optional for certain models. If you select a device model with "/ALARM 16+9", the device will have 16 alarm inputs and 9 alarm outputs. The 9th alarm output supports control 12V.



Dimension

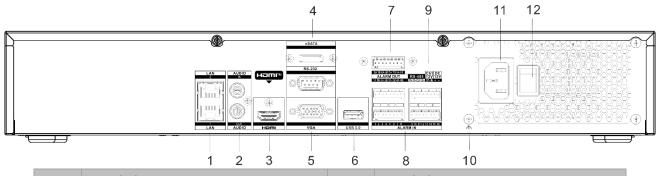




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Physical Interface



No.	Description	No.	Description
1	LAN1 and LAN2 Network Interfaces	7	ALARM OUT
2	AUDIO IN and AUDIO OUT	8	ALARM IN
3	HDMI Interface	9	RS-485 Serial Interface
4	eSATA and RS-232 Serial Interface	10	GND
5	VGA Interface	11	100 to 240 VAC Power Input
6	USB 3.0 Interface	12	Power Switch

Available Model

DS-7708NI-K4, DS-7716NI-K4, DS-7732NI-K4

Distributed by

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DS-2CD2T45G0P-I 4MP IR Bullet Network Camera





- 1/2.7" Progressive Scan CMOS
- 2688 × 1520 @ 25fps
- 1.68 mm ultra wide angle fixed lens
- 120dB WDR

- H.265+, H.265, H.264+, H.264
- Built-in micro SD/SDHC/SDXC card slot, up to 256 GB
- IP67

DORI

The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view.

It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

DORI	Detect	Observe	Recognize	Identify
Distance	3.6 m	1.4 m	0.8 m	0.4 m





Specifications

Camera	
Image Sensor	1/2.7" Progressive Scan CMOS
Min. Illumination	0.028 Lux @ (F2.0, AGC ON), 0 Lux with IR
Shutter Speed	1/3 s to 1/100,000 s
Slow Shutter	Yes
Day & Night	ICR Cut
WDR	120 dB
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Lens	
Lens Type	1.68 mm
Focus	Fixed
Aperture	F2.0
FOV	Horizontal: 180°, vertical: 101°, diagonal: 180°
Lens Mount	M12
Illuminator	
IR Range	20 m
Wavelength	850 nm
Smart Supplement Light	Yes
Video	
Max. Resolution	2688 × 1520
Main Stream	50Hz: 25fps (2688 × 1520, 2304 × 1296, 1920 × 1080, 1280 × 720)
Wall Stream	60Hz: 24fps (2688 × 1520), 30fps (2304 × 1296, 1920 × 1080, 1280 × 720)
Sub-Stream	50Hz: 25fps (640 × 480, 640 × 360, 320 × 240)
	60Hz: 30fps (640 × 480, 640 × 360, 320 × 240)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264
	Sub-stream: H.265/H.264 /MJPEG
Н.264 Туре	Main Profile/High Profile
H.265 Type	Main Profile
Video Bit Rate	32 Kbps to 16 Mbps
Bit Rate Control	CBR/VBR
Stream Type	Main stream, sub-stream
Scalable Video Coding (SVC)	H.264 and H.265
Smart Feature-Set	
Smart Event	Line crossing detection, intrusion detection, unattended baggage detection, object
	removal detection, face detection, scene change detection



	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm
	output, trigger recording, trigger capture.
Linkage Method	Trigger recording: memory card, network storage, pre-record and post-record.
	Trigger captured pictures uploading: FTP, SFTP, HTTP, NAS, Email. Trigger notification:
Design of latenest (DOI)	HTTP, ISAPI, alarm output, Email
Region of Interest (ROI)	1 fixed region for main stream and sub-stream
Image	
Image Enhancement	BLC, HLC, EIS, Lens distortion, 3D DNR
Image Setting	Saturation, brightness, contrast, sharpness, rotate mode, white balance, AGC
Day/Night Switch	Day/Night/Auto/Schedule
SNR	≥ 50 dB
Privacy Mask	4 regions of privacy mask
Network	
	micro SD/SDHC /SDXC (256 G) local storage, and NAS (NFS, SMB/CIFS), auto network
Network Storage	replenishment (ANR)
	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, NTP, UPnP,
Protocols	SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS, WebSocket,
	WebSockets
API	ONVIF (PROFILE S, PROFILE G), ISAPI, SDK
	Password protection, complicated password, HTTPS encryption, 802.1X authentication
Security	(EAP-TLS 1.2, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest
	authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, TLS1.2
Simultaneous Live View	Up to 6 channels
User/Host	Up to 32 users, 3 levels: administrator, operator and user
Client	iVMS-4200, Hik-Connect, Hik-Central
Web Browser	Plug-in required live view: Chrome 45.0+, Firefox 52.0+
	Plug-in free live view: Chrome 41.0+, Firefox 30.0+
Interface	
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
On-board storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
Hardware Reset	Yes
General	
	32 languages
	English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak,
Web Client Language	French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian,
	Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai,
	Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)
General Function	Privacy mask, heartbeat, mirror, flash log, password reset via e-mail, pixel counter
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F), humidity 95% or less (non-condensing)
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F), humidity 95% or less (non-condensing)
Power Supply	12 VDC ± 25%; PoE (802.3at, class 4)



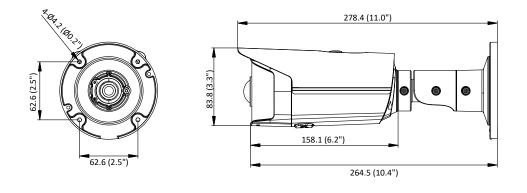
Power Consumption and Current	12 VDC, 0.6 A, max. 7.2W PoE: (802.3af, 36 V-57 V), 0.3 A to 0.2 A, max. 8.7W		
Power Interface	Φ5.5 mm coaxial power plug		
Material	Metal		
Dimensions	Camera: Φ105 × 278 mm (Φ4.1" × 10.9")		
Dimensions	With package: 386 × 156 × 155 mm (15.20" × 6.14" × 6.10")		
Weight	Camera: 570 g (1.26 lb.)		
weight	With package: 760 g (1.68 lb.)		
Approval			
Class	Class B		
Protection	IP67		
	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN		
EMC	61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC		
	(ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015)		
	UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013); CE-LVD (EN 60950-		
Safety	1:2005 + Am 1:2009 + Am 2:2013); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015); LOA		
	(IEC/EN 60950-1)		
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)		

* Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.

Available Model

DS-2CD2T45G0P-I(1.68 mm)

Dimension





Unit: mm (inch)



Accessory



DS-1275ZJ-SUS Vertical Pole Mount



DS-1280ZJ-S Junction Box



DS-1260ZJ Junction Box



DS-1275ZJ-S-SUS Vertical Pole Mount



DS-1276ZJ-SUS Corner Mount

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DS-2CD1057G0-L(UF) 5 MP ColorVu Fixed Bullet Network Camera





Hikvision ColorVu technology provides 24/7 vivid colorful images with F1.0 advanced lenses and high performance sensors. F1.0 super-aperture collects more light to produce brighter images. Advanced sensor technology can vastly improve the utilization of available light. High quality imaging with 5 MP resolution

HIKVISION

- 24/7 colorful imaging
- Excellent low-light performance
- Water and dust resistant (IP67)
- Efficient H.265+ compression technology



Specification

Camera	
Image Sensor	1/2.7" Progressive Scan CMOS
Max. Resolution	2560 × 1920
Min. Illumination	Color: 0.001 Lux @ (F1.0, AGC ON), 0 Lux with light
Shutter Time	1/3 s to 1/100, 000 s
Day & Night	24/7 color imaging
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Lens	
Lens Type	Fixed focal lens, 2.8 and 4 mm optional
Focal Length & FOV	2.8 mm, horizontal FOV 95°, vertical FOV 70°, diagonal FOV 125°
rocal Length & rov	4 mm, horizontal FOV 76°, vertical FOV 57°, diagonal FOV 98°
Lens Mount	M12
Iris Type	Fixed
Aperture	F1.0
Donth of Field	2.8 mm: 2 m to ∞
Depth of Field	4 mm: 2.7 m to ∞
DORI	
DORI	2.8 mm, D: 64 m, O: 25 m, R: 12 m, I: 6 m
DORI	4 mm, D: 82 m, O: 32 m, R: 16 m, I: 8 m
Illuminator	
Supplement Light Type	White Light
Supplement Light Range	Up to 30 m
Smart Supplement Light	Yes
Video	
	50 Hz:
	20 fps (2560 x 1920)
Main Chucom	25 fps (2560 × 1440, 1920 × 1080, 1280 × 720)
Main Stream	60 Hz:
	20 fps (2560 x 1920)
	30 fps (2560 × 1440, 1920 × 1080, 1280 × 720)
Cub Chronne	50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)
Sub-Stream	60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264,
Video Compression	Sub-stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 16 Mbps
Н.264 Туре	Baseline Profile, Main Profile, High Profile
Н.265 Туре	Main Profile
Bit Rate Control	CBR
Region of Interest (ROI)	1 fixed region(s) for main stream
Audio	
Audio Type	-U: Mono sound
Environment Noise Filtering	-U: Yes
Audio Sampling Rate	-U: 8 kHz/16 kHz
Audio Compression	-U: G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/AAC-LC



Audio Bit Rate	-U: 64 Kbps (G.711 ulaw)/64 Kbps (G.711 alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 160 Kbps (MP2L2)/16 to 64 Kbps (AAC-LC)	
Network		
Protocols	TCP/IP, ICMP, DHCP, DNS, DDNS, HTTP, HTTPS, RTP, RTSP, NTP, UPnP, IGMP, IPv6, UDP, QoS, Bonjour, FTP, 802.1x, SMTP	
Simultaneous Live View	Up to 6 channels	
ΑΡΙ	Open Network Video Interface (Profile S, Profile G ((only -U model supports)), ISAPI, SDK	
User/Host	Up to 32 users 3 user levels: administrator, operator, and user	
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (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, security audit log, TLS 1.2, host authentication (MAC address)	
Client	iVMS-4200, Hik-Connect	
Web Browser	Plug-in required live view: IE 10, IE 11, Local service: Chrome 57.0+, Firefox 52.0+	
Image		
Wide Dynamic Range (WDR)	120 dB	
SNR	≥ 52 dB	
Day/Night Switch	Day, Night, Auto, Schedule	
Image Enhancement	BLC, HLC, 3D DNR	
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser	
Privacy Mask	4 programmable polygon privacy masks	
Interface		
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port	
On-Board Storage	-F: Built-in memory card slot, support MicroSD/SDHC/SDXC card, up to 256 GB	
Built-in Microphone	-U: Yes	
Reset Key	-F: Yes	
Event		
Basic Event	Motion detection, video tampering alarm, exception	
Linkage	Upload to FTP/memory card (-F), notify surveillance center, send email, trigger recording (-F), trigger capture	
General		
Power	12 VDC ± 25%, 0.4 A, max. 5 W, Ø5.5 mm coaxial power plug, PoE: 802.3af, Class 3, 36 V to 57 V, 0.2 A to 0.15 A, max. 6.5 W	
Material	Aluminum alloy body	
Dimension	Ø76.6 mm × 164.4 mm (Ø3" × 6.5")	
Package Dimension	234 mm × 120 mm × 117 mm (9.2" × 4.7" × 4.6")	
Weight	Approx. 430 g (0.95 lb.)	
With Package Weight	Approx. 648 g (1.42 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	English, Ukranian	
General Function	Heartbeat, anti-flicker, mirror, password protection, password reset via email	
Approval		
	FCC: 47 CFR Part 15, Subpart B,	
	CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN	
EMC	50130-4: 2011 +A1: 2014,	
	RCM: AS/NZS CISPR 32: 2015,	
	KC: KN32: 2015, KN35: 2015	
	UL: UL 62368-1,	
Safaty	CB: IEC 62368-1: 2014+A11,	
Safety	CE-LVD: EN 62368-1: 2014/A11: 2017,	
	BIS: IS 13252 (Part 1): 2010/IEC 60950-1: 2005	
Environment	CE-RoHS: 2011/65/EU,	
	WEEE: 2012/19/EU,	
	Reach: Regulation (EC) No 1907/2006	
Protection	IP67: IEC 60529-2013	

Available Model

DS-2CD1057G0-L (2.8/4 mm) DS-2CD1057G0-LUF (2.8/4 mm)

Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has NO SPECIFIC PROTECTION.

Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional
	anti-corrosion protection is a must. Typical application scenarios include coastlines, docks,
	chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped for use in areas with moderate anti-corrosion
	demands. Typical application scenarios include coastal areas about 2 kilometers (1.24
	miles) away from coastlines, as well as areas affected by acid rain.
No specific protection	Hikvision products at this level are equipped for use in areas where no specific
	anti-corrosion protection is needed.



• Dimension

Unit: mm (inch)

- Accessory
- Optional





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DS-2CD1357G0-L(UF) 5 MP ColorVu Fixed Turret Network Camera

ColorVu



Hikvision ColorVu technology provides 24/7 vivid colorful images with F1.0 advanced lenses and high performance sensors. F1.0 super-aperture collects more light to produce brighter images. Advanced sensor technology can vastly improve the utilization of available light. High quality imaging with 5 MP resolution

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- 24/7 colorful imaging
- Excellent low-light performance
- Water and dust resistant (IP67)
- Efficient H.265+ compression technology





Specification

Camera		
Image Sensor	1/2.7" Progressive Scan CMOS	
Max. Resolution	2560 × 1920	
Shutter Time	1/3 s to 1/100, 000 s	
Min. Illumination	Color: 0.001 Lux @ (F1.0, AGC ON), 0 Lux with light	
Day & Night	24/7 color imaging	
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 75°, rotate: 0° to 360°	
Lens		
Lens Type	Fixed focal lens, 2.8 and 4 mm optional	
	2.8 mm, horizontal FOV 95°, vertical FOV 70°, diagonal FOV 125°	
Focal Length & FOV	4 mm, horizontal FOV 76°, vertical FOV 57°, diagonal FOV 98°	
Lens Mount	M12	
Iris Type	Fixed	
Aperture	F1.0	
-	2.8 mm: 2 m to ∞	
Depth of Field	4 mm: 2.7 m to ∞	
DORI		
	2.8 mm, D: 64 m, O: 25 m, R: 12 m, I: 6 m	
DORI	4 mm, D: 82 m, O: 32 m, R: 16 m, I: 8 m	
Illuminator		
Supplement Light Type	White Light	
Supplement Light Range	Up to 30 m	
Smart Supplement Light	Yes	
Video		
	50 Hz:	
	20 fps (2560 x 1920)	
	25 fps (2560 × 1440, 1920 × 1080, 1280 × 720)	
Main Stream	60 Hz:	
	20 fps (2560 x 1920) 30 fps (2560 × 1440, 1920 × 1080, 1280 × 720)	
	50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)	
Sub-Stream	60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)	
	Main stream: H.265+/H.265/H.264+/H.264,	
Video Compression	Sub-stream: H.265/H.264/MJPEG	
Video Bit Rate	32 Kbps to 16 Mbps	
H.264 Type	Baseline Profile, Main Profile, High Profile	
Н.265 Туре	Main Profile	
Bit Rate Control	CBR, VBR	
Region of Interest (ROI)	1 fixed region(s) for main stream	
Audio		
Audio Type	-U: Mono sound	
	-U: Yes	
Environment Noise Filtering		
Audio Sampling Rate	-U: 8 kHz/16 kHz	
Audio Compression	-U: G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/AAC-LC	



Audio Bit Rate	-U: 64 Kbps (G.711 ulaw)/64 Kbps (G.711 alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 160 Kbps (MP2L2)/16 to 64 Kbps (AAC-LC)		
Network			
Protocols	TCP/IP, ICMP, DHCP, DNS, DDNS, HTTP, HTTPS, RTP, RTSP, NTP, UPnP, IGMP, IPv6, UDP, QoS, Bonjour, FTP, 802.1x, SMTP		
Simultaneous Live View	Up to 6 channels		
API	Open Network Video Interface (Profile S, Profile G ((only -U model supports)), ISAPI, SDK		
User/Host	Up to 32 users 3 user levels: administrator, operator, and user		
Security	 Password protection, complicated password, HTTPS encryption, 802.1X authentication (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, security audit log, TLS 1.2, host authentication (MAC address) 		
Client	iVMS-4200, Hik-Connect		
Web Browser	Plug-in required live view: IE 10, IE 11, Local service: Chrome 57.0+, Firefox 52.0+		
Image			
Wide Dynamic Range (WDR)	120 dB		
SNR	≥ 52 dB		
Day/Night Switch	Day, Night, Auto, Schedule		
Image Enhancement	BLC, HLC, 3D DNR		
	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance,		
Image Settings	adjustable by client software or web browser		
Privacy Mask	4 programmable polygon privacy masks		
Interface	· p. 6. aa p		
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port		
On-Board Storage	-F: Built-in memory card slot, support MicroSD/SDHC/SDXC card, up to 256 GB		
Built-in Microphone	-U: Yes		
Reset Key	-F: Yes		
Event	1.103		
Basic Event	Motion detection, video tampering alarm, exception		
	Upload to FTP/memory card (-F), notify surveillance center, send email, trigger		
Linkage	recording (-F), trigger capture		
General			
Scherun	12 VDC ± 25%, 0.4 A, max. 5 W, Ø5.5 mm coaxial power plug,		
Power	PoE: 802.3af, Class 3, 36 V to 57 V, 0.2 A to 0.15 A, max. 6.5 W		
Material	Metal & Plastic		
Dimension	Ø109.9 mm × 103.6 mm (Ø4.3" × 4.1")		
Package Dimension	150 mm × 150 mm × 141 mm (5.9" × 5.9" × 5.6")		
	-L: Approx. 390 g (0.9 lb)		
Weight	-LUF: Approx. 410 g (0.9 lb)		
	-L: Approx. 630 g (1.4 lb)		
With Package Weight	-LUF: Approx. 650 g (1.4 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	English, Ukranian
General Function	Heartbeat, anti-flicker, mirror, password protection, password reset via email
Approval	
	FCC: 47 CFR Part 15, Subpart B,
	CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN
EMC	50130-4: 2011 +A1: 2014,
	RCM: AS/NZS CISPR 32: 2015,
	KC: KN32: 2015, KN35: 2015
	UL: UL 62368-1,
Cafaty	CB: IEC 62368-1: 2014+A11,
Safety	CE-LVD: EN 62368-1: 2014/A11: 2017,
	BIS: IS 13252 (Part 1): 2010/IEC 60950-1: 2005
Environment	CE-RoHS: 2011/65/EU,
	WEEE: 2012/19/EU,
	Reach: Regulation (EC) No 1907/2006
Protection	IP67: IEC 60529-2013

Available Model

DS-2CD1357G0-L (2.8/4 mm) DS-2CD1357G0-LU F(2.8/4 mm)

Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has NO SPECIFIC PROTECTION.

Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional
	anti-corrosion protection is a must. Typical application scenarios include coastlines, docks,
	chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped for use in areas with moderate anti-corrosion
	demands. Typical application scenarios include coastal areas about 2 kilometers (1.24
	miles) away from coastlines, as well as areas affected by acid rain.
No specific protection	Hikvision products at this level are equipped for use in areas where no specific
	anti-corrosion protection is needed.



•Dimension

Unit: mm (inch)

Accessory

Optional

DS-1275ZJ-SUS Vertical Pole Mount	DS-1272ZJ-110-TRS Wall Mount	DS-1276ZJ-SUS Corner Mount	DS-1280ZJ-S Junction Box	DS-1281ZJ-S Inclined Ceiling Mount
			101. Ma	



Distributed by



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HDMI 4x4 Matrix Switch, 4K/60 500444

Overview:

The HDMI 4x4 Matrix, 4K/60 (4:4:4) connects four HDMI sources to four displays. This matrix provide four HDMI outputs supporting up to 4K/60 (4:4:4) plus all 3D formats, and supporting independent EDID control. It works with Blu-Ray players, Media Players/Streamers, Cameras, Set-Top boxes, Home Theater systems, and game consoles that connect to an HDMI display. Any source is accessible at all times by any display by selecting it via the supplied IR Remote Control, RS-232, TCP/IP or by using the selection buttons on the front panel.

Applications:

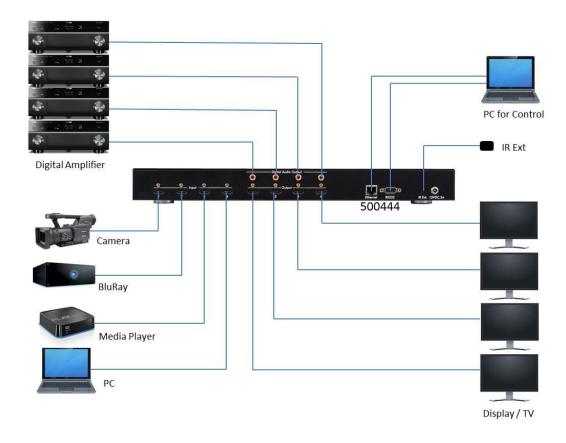
- · Commercial and residential AV systems
- Classroom training systems
- Digital signage
- Boardroom systems
- Collaborative PC systems
- Medical information systems



Key Features:



- Supports HDMI 2.0 (4K/60, 4:4:4)
- Supports 4K/60 (4:2:0) for compatibility with HDBT extenders
- HDCP 2.2 compliant
- Full HDR support
- Powerful EDID management
- Supports LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos, DTS-HD Master Audio & DTS:X
- Supports a Coax digital audio out (S/PDIF)
- Available Window's GUI control software
- Controllable via front panel, IR, RS232 and Telnet
- Fits on a standard 19" rack



Typical Application





Specifications		
Environment	HDMI 2.0a	
Devices	4K Blu-Ray, media players/streamers, projectors, monitors, TV, PC, laptops.	
Transmission	Transparent to the user.	
Video Bandwidth	18Gbps	
Maximum Pixel Clock	594Mhz	
Signals	HDMI 2.0a (4K/60 4:4:4) protocol and HDCP 1.4 & 2.2	
Video Resolution	VESA and SMPTE 480p to 2160p (4K) With 3D Bit depth: 8, 10, 12	
Connectors	Four (4) HDMI connectors, for HDMI Input Four (4) HDMI connectors, for HDMI Output One (1) 3.5mm Jack, for IR Sensor One (1) DB9 connector for RS232 management One (1) RJ45 Shielded connector for Ethernet Four (4) Coax Digital Audio Outputs One (1) 2.1mm barrel locking connector for Power	
Audio	Supports LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos, DTS-HD Master Audio & DTS:X	
Cable	Eight (8) HDMI cables of appropriate length for video resolution selected Cat 5e/6 or better twisted pair cable for Ethernet One DB9 serial cable for RS232	
Maximum Distance Cables not included.	10m for HDMI cable	
Power Supply	One (1) 110-240VAC to 12VDC/5.0A power supply	
Temperature	Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing	
Enclosure	Metal enclosure	
Bracket	Included	
Dimensions	17.20" x 1.69" x 8.86" (437mm x 43mm x 225mm)	
Weight	9.69lbs (4.40kg)	
Compliance	Regulatory: FCC, CE, RoHS	
Warranty	2 years	
Order Information	500444-US HDMI 4x4 Matrix Switch, 4K/60, US (UPC: 627699014448)	
	500444-UK HDMI 4x4 Matrix Switch, 4K/60, UK (UPC: 627699914441)	
	500444-EU HDMI 4x4 Matrix Switch, 4K/60, EU (UPC: 627699814444)	

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HDMI 4x4 Matrix Switch, 4K/60



DS-K1T341CM Face Recognition Terminal



Face recognition terminal adopts deep learning algorithm, which helps to recognize the face faster with higher accuracy. It also supports multiple authentication modes: face/card/PIN authentication, etc. It can be applied in multiple scenarios, such as buildings, enterprises, financial industries, and other important areas.

- Deep learning algorithm
- 4.3-inch capacitive touch screen, 2 MP wide-angle dual-lens
- 3,000 face capacity, 3,000 card capacity, and 150,000 event capacity
- Multiple authentication modes, including face, and card, etc.
- Face recognition duration < 0.2 s/User
- Supports mask wearing detection
- Connects to external access controller or Wiegand card reader via Wiegand protocol
- Connects to secure door control unit via RS-485 protocol to avoid the door opening when the terminal is destroyed
- Two-way audio with client software, door station, indoor station, and main station



•

Specification

System		
Operating system	Linux	
Display		
Screen size	4.3 inch	
Operation method	Capacitive touch screen	
Resolution	272 × 480	
Video		
Lens	2	
Resolution	2 MP (video stream: 720P)	
Video standard	PAL (Default) and NTSC	
Network		
Wired network	10 M/100 M self-adaptive	
Interface		
Network interface	1	
Lock control	1	
Exit button	1	
Door contact input	1	
TAMPER	1	
RS-485	1	
Wiegand	1	
USB	1	
Capacity		
Face capacity	3,000	
Card capacity	3,000	
Event capacity	150,000	
Authentication		
Face recognition distance	> 2 m	
Face recognition duration	< 0.2 s	
Card type	M1 card	
Function		
Live view	Support	
Face anti-spoofing	Support	
Hik-Connect	Support	
Audio prompt	Support	
General		
Built-in access controller	Yes	
Power supply	12 VDC to 24 VDC, 2 A	
Power consumption	≤ 10 W	
Working temperature	-30 °C to 60 °C (-22 °F to 140 °F)	
Protective level	IP65	
Language	English, Spanish (South America), Arabic, Thai, Indonesian, Russian, Vietnamese, Portuguese (Brazil), Korean	

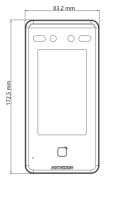


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Available Model

DS-K1T341CM

Dimension



<u>22.7 mm</u>



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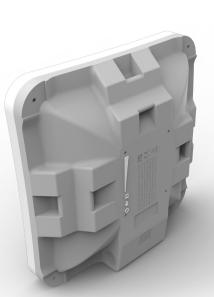
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SXTsq Lite5

The SXTsq Lite5 is a compact and lightweight outdoor wireless device with an integrated antenna. Perfect for point-to-point links of up to 12 kilometers or as a CPE unit. It is compact, weatherproof and easy to mount. The SXTsq Lite5 retains a 16 dBi antenna like the SXT Lite5, our previous model, yet the antenna design has been improved and the physical size has been dramatically reduced - the SXTsq is two times thinner.



The enclosure includes slots for directly attaching a hose clamp mount in three different mounting places, with ability to be mounted on horizontal railings. The device includes one 10/100 Mbit ethernet port. There is also an easily accessible grounding connection to protect it against lightning.

Comparison to previous SXTs











24 V 0.38 A power adapter



Metal ring



PoE injector



Specifications

Product code	RBSXTsq5nD (International), RBSXTsq5nD-US (USA)	
CPU	AR9344	
CPU nominal frequency	600 MHz	
CPU core count	1	
Size of RAM	64 MB	
Storage	16 MB Flash	
10/100 Ethernet ports	1	
Wireless bands	5 GHz radio	
Wireless regulations	Specific frequency range may be limited by country regulations	
	International 5150 - 5875 MHz	
Operating frequency	USA 5170 - 5250 MHz 5725 - 5835 MHz	
Protocols	802.11a/n	
Chains	2	
Antenna gain	16 dBi	
Antenna beam width	23°	
Wireless chip model	AR9344	
PoE in	Yes	
Supported input voltage	10 V - 30 V, passive PoE	
Dimensions	129x129x34 mm; package: 255x180x45 mm	
Weight	Unit: 295 g; package: 492 g	
Operating temperature	-40 to 70° C	
License level	3	
Operating System	RouterOS	
Max Power consumption	6 W	
Antenna beam width Wireless chip model PoE in Supported input voltage Dimensions Weight Operating temperature License level Operating System	23° AR9344 Yes 10 V - 30 V, passive PoE 129x129x34 mm; package: 255x180x45 mm Unit: 295 g; package: 492 g -40 to 70° C 3 RouterOS	

Wireless specifications

RATE (5 GHz)	Tx (dBm)	Rx (dBm)
6MBit/s	25	-96
54MBit/s	20	-80
MCSO	25	-96
MCS7	19	-75

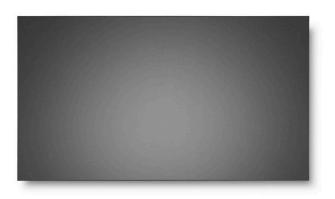
QuickMount Pro adjustable mount available separately.





NEC MultiSync[®] UN552V LCD 55" Video Wall Display

Datasheet





Video Walls you can rely on

The MultiSync[®] UN552V sets the standard for video wall technology. Featuring a minimal 3.5 mm bezel these display modules create impressive high resolution video walls with barely visible image gaps. With perfect picture quality and high product reliability, these displays are designed for the rigors of 24/7 operation. At a high brightness level of 500 cd/m² your message will be well received with effortless readability even in the brightest ambient light conditions. An advanced set of intelligent features make the displays easy to install and operate and support significantly reduced maintenance requirements. The 55" display is ideally suited to create huge screen surfaces for fixed installations and for mid and longer viewing distances.

NEC's vast experience in the video wall market is evident in the design with features that reduce costs, ease installation and enhance the visual impact of content in control rooms, broadcast studios, transport installations and the rental market.

Benefits

Easy installation – effortlessly set up you wall display with Auto TileMatrix and out-of-the-box calibrations. Save time by plugging in ready-to-use image presets for predefined application scenarios.

Enhanced imaging performance – advanced settings of all relevant visual parameters allow full control of brightness, colour, gamma and uniformity via the SpectraView Engine for precise, natural images.

Lifelike and consistent colour – expect colour reproduction that feels true to life with IPS panel technology, the top choice when it comes to colour consistency. The S-IPS panel ensures that perfect visibility is maintained in landscape and portrait mode and at extreme viewing angles as viewers pass by.

Secure Reliability and Longevity of Video Walls – unique NEC heat management system enables the user to monitor and control the heat inside the display.

Cost Saving Device Management – save effort whilst managing all connected NEC devices from a centralised location by using the NaViSet Administrator 2 software tool.

Product Information

Product Name	NEC MultiSync [®] UN552V	NEC MultiSync [®] UN552V	
Product Group	LCD 55" Video Wall Display		
Order Code	60004882		

Display

Panel Technology	S-IPS with Direct LED backlights
Active Screen Area (W x H) [mm]	1,209.6 × 680.3
Screen Size [inch/cm]	55 / 138.8
Aspect Ratio	16:9
Pixel Pitch [mm]	0.630
Brightness [cd/m²]	500
Contrast Ratio (default)	> 1700:1
Viewing Angle [°]	178 horizontal / 178 vertical (typ. at contrast ratio 10:1)
Colour Gamut	72% of NTSC
Response Time (typ.) [ms]	8
Panel Refresh Rate [Hz]	60
Haze Level [%]	Pro (28)
Supported Orientation	Landscape; Portrait

Resolution

Native Resolution	1920 x 1080			
Supported on DisplayPort and	1024 x 768;	1280 x 1024;	1600 x 1200;	640 x 480;
HDMI	1080i;	1280 x 768;	1920 x 1080;	720p (50/60 Hz);
	1080p;	1360 x 768;	3840 x 2160;	800 x 600
Supported on HDMI only	4096 x 2160			

Synchronisation Rate

Horizontal Frequency [kHz]	26 - 134
Vertical Frequency [Hz]	23 - 86

Connectivity

Input Video Analogue	1 x VGA; Composite (RCA)
Input Video Digital	1 x DVI-D (with HDCP); 1 x OPS Slot; 2 x DisplayPort (with HDCP); 2 x HDMI 1.3 (with HDCP)
Input Audio Analogue	2 x 3,5 mm jack
Input Audio Digital	2 x DisplayPort; 2 x HDMI
Input Control	1 x Remote Control (3.5 mm jack); 1 x RS232; 2 x LAN 100Mbit
Input Data	1 x microSD (MediaPlayer); 1 x USB 1.0 (Downstream); 1 x USB 1.0 (MediaPlayer); 1 x USB 2.0 (Upstream); 2 x USB 1.0 (Compute Module, 1 x 5V/2A powered)
Output Video Digital	1 x DisplayPort (loop through: DisplayPort, OPS slot-in PC); 1 x HDMI (loop through: HDMI, OPS slot-in PC, Mediaplayer)
Output Audio Analogue	1 x 3,5 mm jack
Output Control	LAN 100Mbit

Calibration

Factory Calibration	Gamma; Intensity; RGB; Uniformity; White Point	
Sensor Calibration (through USB)	PC-less Calibration with USB Sensor MDSVSensor3; White Copy (post self-calibration)	

Calibration with Software	Corner Uniformity; Gamma; Intensity; RGB; Update Factory Calibration; Update Uniformity Correction; White Point
Calibration Software	NEC Display Wall Calibrator

Open Modular Intelligence

OPS Slot	Slot Technology: Open pluggable specification (NEC / Intel OPS standard)	
OPS Max. Current / Power Consumption [A / W]	3.6 / 58	
Compute Module Slot	Slot Technology: Compute Module 3 Slot (NEC proprietary standard)	

Sensors

Human Sensor	Optional, external, 4-5m range, triggered actions programmable
NFC Sensor	Integrated, 2cm range, free NEC Android App required

Electrical

Power Consumption Eco/max. [W]	110 shipping; 315 (max.)
Power Savings Mode [W]	< 0.5; < 2 (Networked Standby)

Environmental Conditions

Operating Temperature [°C]	+0 to +40
Operating Humidity [%]	20 to 80
Storage Humidity [%]	10 to 90
Storage Temperature [°C]	-20 to 60

Mechanical

Dimensions (W x H x D) [mm]	Without stand: 1,213.4 x 684.2 x 103.8
Weight [kg]	Without stand: 25.5
Bezel Width [mm]	1.2 bottom/right; 2.3 top/left; 3.5
VESA Mounting [mm]	4 holes; 400 x 400 (FDMI); M6

MediaPlayer

Supported Image Formats	JPG (baseline, progressive, RGB, CMYK); max. resolution 5000 x 5000; PNG (interlace, alpha channel); max. resolution 4000 x 4000
Supported Video Formats	MP4 / MOV / FLV (video H.264, audio MP3, AAC); max. resolution 1080p at 30 Hz, 1080i at 60 Hz; MPG (video mpeg1/2, audio mpeg audio layer2/3, AAC-LC); MP @ ML, MP @ HL; WMV (video H.264, wmv advanced L3, wmv simple / main, audio mp3 wmv std); max. resolution 1080p at 30 Hz, 1080i at 60 Hz
Supported Audio Formats	MP3 (MP3); max. bit-rate 320 kBit/s; WAV (LPCM); max. 48 kHz sampling

Available Options

Accessories	Calibration kit (KT-LFD-CC2); Feet (ST-5220); Overframe kit (KT-55UN-OF5); Remote control kit (KT-RC3); Speaker (SP-TF1); Wall mount (PD02VWM MFS 46-55 L/P; PD02VW QR 46-55 L/P; CK02XUN MFS 55 L/P)
Compute Module Slot	Raspberry Pi Compute Module 1 and 3
OPS Slot	Intel® Atom, Celeron and Core i3, i5, i7 Slot-in PCs

Green Features

Energy Efficiency	Carbon savings meter; Energy consumption: 106 kWh/1000 h; Energy efficiency class: G; Human Sensor; LED backlight
Ecological Standards	EnergyStar 8.0

Additional Features

Special Characteristics	Auto ID assignment; Auto tiling function; Automatic Alarm E-Mails; DICOM Simulation; Frame Comp; HTTP Server; Image flip; Intelligent Wireless Data (based on NFC); NaViSet Administrator 2; TileMatrix; USB Media Player; User input priority definition; User readable log function	
Colour Versions	Black Front Bezel, Black Back Cabinet	
Safety and Ergonomics	BSMI; CE; EAC; FCC; PSB; RCM; REACH; RoHS; SASO; TÜV GS; TÜV S; UL/C-UL; VCCI	
Pixel Failure Class	ISO 9241-307, Class 2	
Audio	Optional Speakers (15 W + 15 W)	
Plug and Play	VESA DDC/CI	
Shipping Content	Display; DisplayPort Cable; HDMI Cable; LAN cable (RJ45); Power Cable	
Warranty	3 years warranty incl. backlight; additional services available; optional 4. + 5. year warranty extension 1	
Operating Hours	24/7	

¹ please refer to terms and conditions of warranty extensions



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Daker DK Plus 3000

3 101 72 - 3 100 75

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General features.....
 Technical features

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1. GENERAL FEATURES

The Legrand UPS model Daker DK Plus 3000 is an uninterruptible power source with high frequency PWM technology, Double Conversion On-Line, solid neutral, Rated Power 3,000 VA – 2700 W, equipped with valve-regulated, hermetically-sealed accumulator batteries, contained in a specific compartment inside the UPS or in one or more external cabinets, sized to guarantee a minimum uptime of 8 minutes at 80% of the load.

The electronics and batteries are contained in just two rack units.

The architecture of this UPS means it can be installed in either a Tower configuration or inside Rack cabinets.

The rectifier of the UPS is comprised of a control and regulating circuit (PFC), which, in addition to normal rectifier functions also:

- automatically corrects the power factor of the load to restore it to a value of > 0.99 with a load applied at the output at 20% of the rated load;
- power the inverter without requiring energy from the batteries, even when there is very low voltage from the mains;
- ensures a total harmonic distortion of the input current THD_{lin}
 3% without the addition of filters or supplementary parts.

The bypass circuit is designed and built in compliance with the following:

- Electromechanical switch
- Command and control logic managed by a microprocessor that:
 automatically transfers the load directly onto the primary mains line without interrupting the power supply if any conditions of overload, over temperature, continuous voltage outside of the tolerances and inverter anomaly arise;
 - automatically re-transfers the primary mains line load to an inverter line, without interrupting the power supply, once normal conditions of the load have been restored;
 - if the primary mains line and the inverter are not synchronized, the bypass must be disabled.

A diagnostic and shutdown software (UPS Communicator), if accordingly installed in a PC connected to the UPS, which allows you to access all of the DHEA's operational data, make adjustments and settings to the special functions and control Windows and Linux operating system shutdown.

An optional software (UPS management software) offers hierarchic multiserver shutdown and remote management of the UPS for any operating system in a heterogeneous network (Windows, Novell, Linux and the common Unix).

Daker DK Plus 3000 is managed by a microprocessor and is able to display, on a control panel and LCD screen, the alarms and operating modes described below:

- normal operation
- output frequency that is not synchronized with the input
- battery-powered operation
- operation in bypass mode
- faulty power module
- overloaded
- generic anomalyincorrect neutral connection
- back-up time
- end of uptime

The Daker DK Plus 3000 Static Uninterruptible Power Supply bears the CE marking pursuant to Directives 2014/35, 2104/30, and is designed and built in compliance with the following standards:

- EN 62040-1 "General and safety requirements for UPSs used in areas that are accessible to the operator"
- EN 62040-2 "Electromagnetic Compatibility requirements (EMC)"
- EN 62040-3 "Performance and test method requirements".

2. TECHNICAL FEATURES

General Features	
Nominal power (VA)	3000
Active power (W)	2700
Technology	On-Line Double Conversion VFI-SS-111
Waveform	Sinusoidal
UPS architecture	convertible tower and rack 19
Surge Rating	1530
ECO Mode efficiency	%98
	· ·
Input	
Input voltage	230 V
Input frequency	50-60 Hz ±5% Autosensing
Input Voltage Range	180-300 on full load 150-300 on 80%load
	110-300 on 60% load
THD Input current	< 3%
Input power factor	> 0.99
Input Plug	3 101 72: Multi Standard 3 100 75: British Standard

Output	
Output voltage	230V ± 1%
Output frequency (nominal)	50/60 Hz (can be set from the LCD panel) +/- 0.1%
Crest Factor	1:3
THD Output voltage	Linear load 2% Nonlinear load 5%
Output Voltage Tolerance	±1%
Bypass	Internal automatic Bypass (included) External maintenance Bypass (OPTIONAL)

05/11/2020

Daker DK Plus 3000

2. TECHNICAL FEATURES (continued)

Batteries	
Uptime Expansion	yes
Number of batteries	6
Battery series Type/Voltage	12V 9Ah
Uptime with 80% load (min)	8
Recharge time (to 100%)	4 hours
Battery disconnector for safe transportation	yes

Communication and management	
Display and Signals	Four buttons and four LEDs to monitor the status of the UPS in real time
Communication Ports	RS232 serial ports, USB
Remote Management	available
Network interface slot	SNMP

Mechanical features	
Measurements H x L x D (mm)	440x88 (2U) x600
Battery Cabinet Measurements H x L x D (mm)	440x88 (2U) x600
Net Weight (kg)	30

Environmental conditions	
Operating temperature (°C)	0 ÷ 40 °C
Degree of protection	IP20
Relative humidity (%)	0-95% non-condensing
Noise level at 1 m (dBA)	On-Line Mode < 50 Eco Mode < 40
Heat Loss (BTU/h)	818

Standards EN 62040-1 EN 62040-2 EN 62040-3	Certifications	
	Standards	EN 62040-1, EN 62040-2, EN 62040-3

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Update: 05/11/2020

L1 legrand