IDK
with your vision, Always.

encode
decode
switch
scale
manage

IP-NINJAR
AV & KVM over IP Solutions

IP-NIN⊼AR

- Corporate
- University
- Medical
- Command & Control
- Digital Signage
- Cruise Ship
- Units List
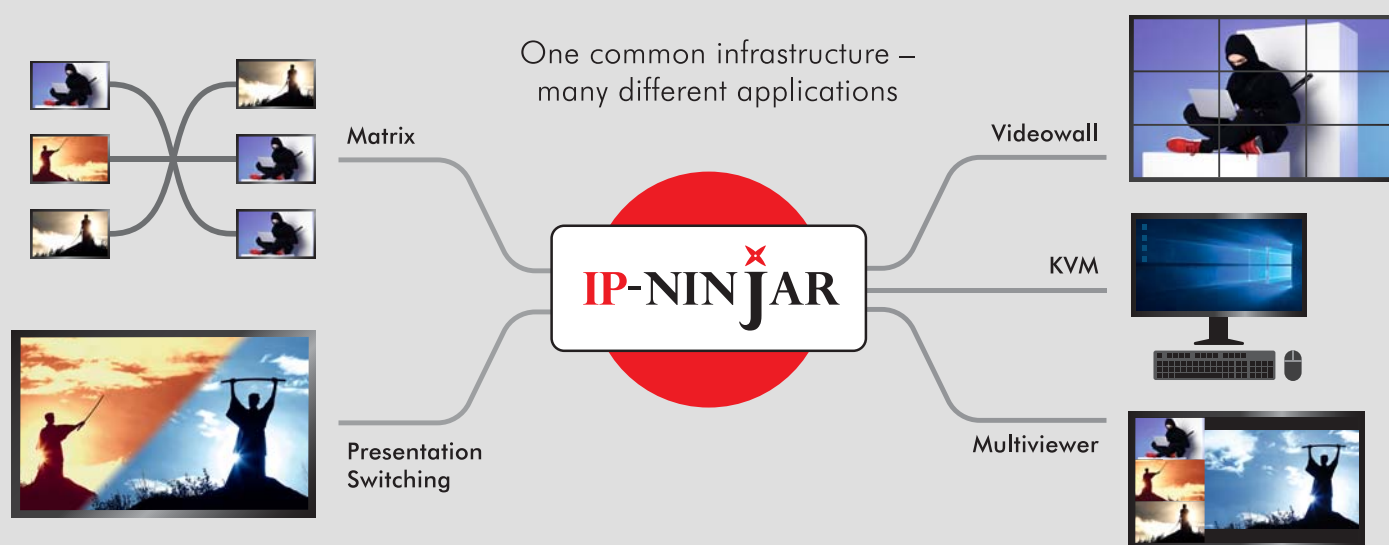
4K@60 4:4:4 AV over IP

To meet the growing demand for 4K video, IDK has developed an innovative product for AV systems:

IP-NINJAR

...a game changing AV over IP solution for high definition signal extension, switching and manipulation. This 4K solution leverages off-the-shelf 10 Gb Ethernet switches and enables signal management of 4K / UHD 4:4:4 at 60 Hz signals with Zero Frame Latency.

Boasting unlimited scalability and flexible input / output configurations, IP-NINJAR brings a new concept of AV switching and distributing to the world of Pro AV.

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One common infrastructure – many different applications

Matrix

Presentation Switching

IP-NIN⊼AR

Videowall

KVM

Multiviewer

Icon	Description
⤮	Switching and Extension
⊞	Multiviewer and Videowall
⤢	Scaling
10 Gbit	10 Gbit Ethernet
◉	Singlemode Optical Fiber
◉	Multimode Optical Fiber
4K	4K@60 (4:4:4)
≡	4 x 1080p@60 (4:4:4)
👁	Zero Frame Latency
⬡	HDMI 2.0
HDCP 2.2	HDCP 2.2
⟔	USB 2.0
🔊	Audio Embedding / De-embedding
3G SDI	3G-SDI
👁	Thumbnail Capture
H.264	H.264
1 Gbit	1 Gbit tunneled Ethernet / Network

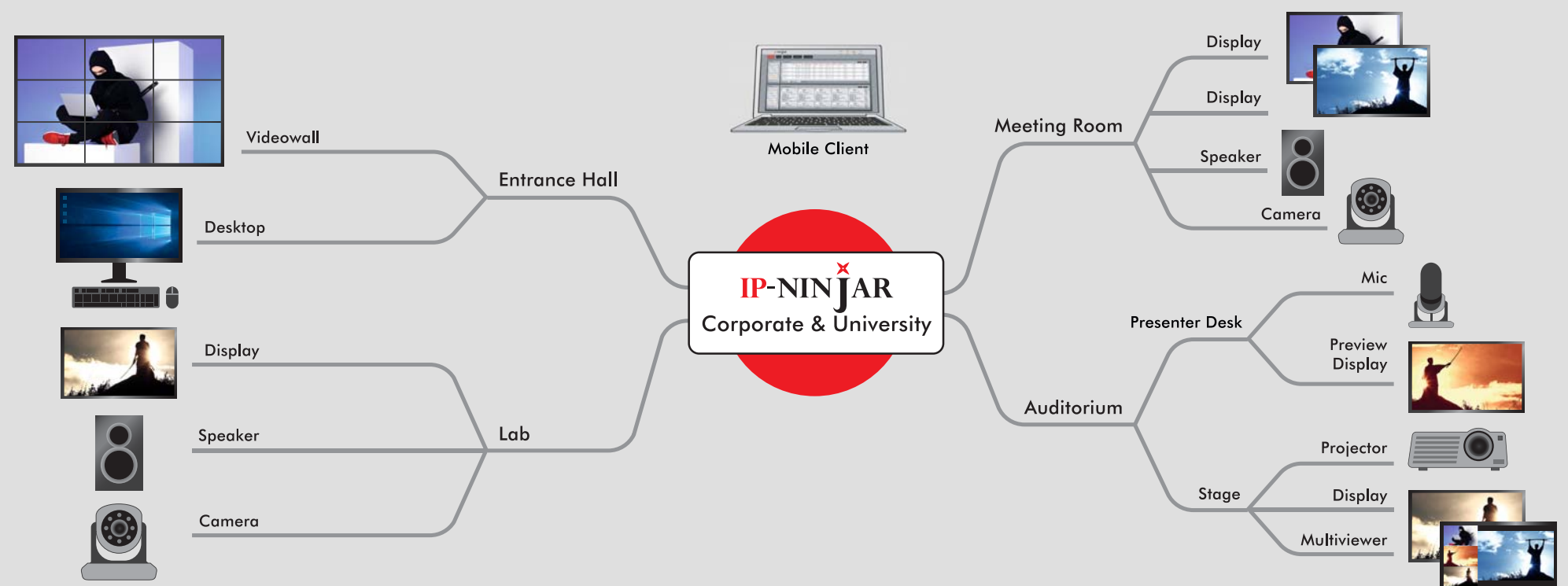# CORPORATE & UNIVERSITY

APPLICATIONS

Videowall Splitting

Multiview

Matrix Switching

Audio Embedding

Audio De-embedding

Scaling

Seamless Switching

Powerful collaboration tools enable corporations to work more efficiently and become more succesful. Smart e-learing solutions help students engage and interact with their learning environment and make schools and universities more enticing and competitive.

Integrators can base all communication applications like high-definition video conferencing, remote meetings, presentations, training sessions, lecture capture and many more on a dependable high-bandwith AV over IP network infrastructure.

www.idkav.eu

IP-NINJAR
Corporate & University

Videowall

Desktop

Display

Speaker

Camera

Entrance Hall

Lab

Mobile Client

Meeting Room

Presenter Desk

Auditorium

Stage

Display

Display

Speaker

Camera

Mic

Preview Display

Projector

Display

Multiviewer

MEDICAL

Remote surgery, medical training and consultation, video and audio capture, patient information – audio visual systems play a major role in most modern hospitals, medical centers and doctor's offices.

Hospital and medical managers focus on turnkey solutions that are cost-effective and future-proof. At the same time patient healthcare and safety is the pivotal point, that is why AV has to provide the highest visual acuity, fastest responsiveness and reliability at all times.
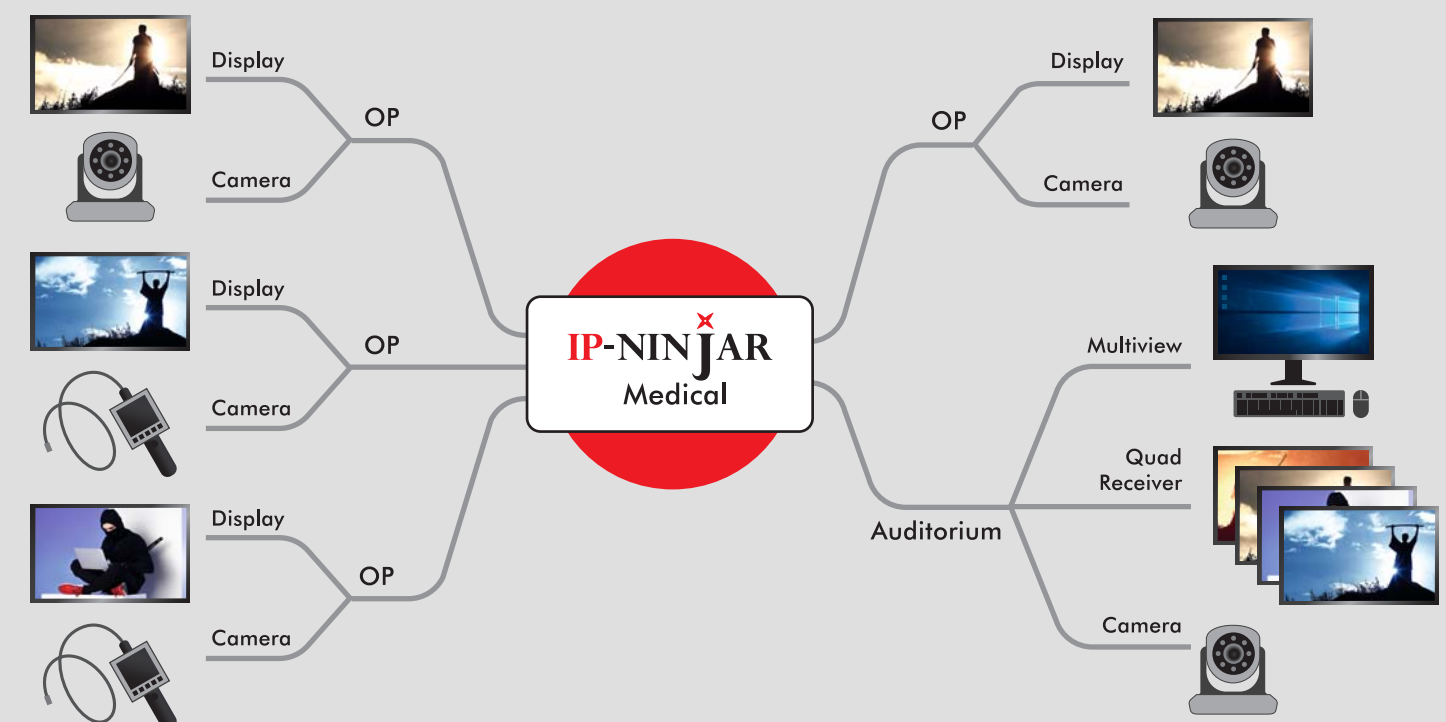
An integrated AV over IP solution ticks all those boxes while being profitable regardless of system size.

www.idkav.eu

ZERO FRAME LATENCY

HDR

REDUNDANT ROUTING

Display
Camera
OP

Display
Camera
OP

Display
Camera
OP

IP-NINJAR Medical

Display
Camera
OP

Multiview

Quad Receiver

Auditorium

Camera

COMMAND
& CONTROL

Command and control rooms demand the highest-spec AV equipment for use in mission-critial systems. Failure safety and long-term durability are state-of-the-art in these 24/7 environments as well as hot-swappable components, easy to implement redundancy, security and versatility of the hardware.
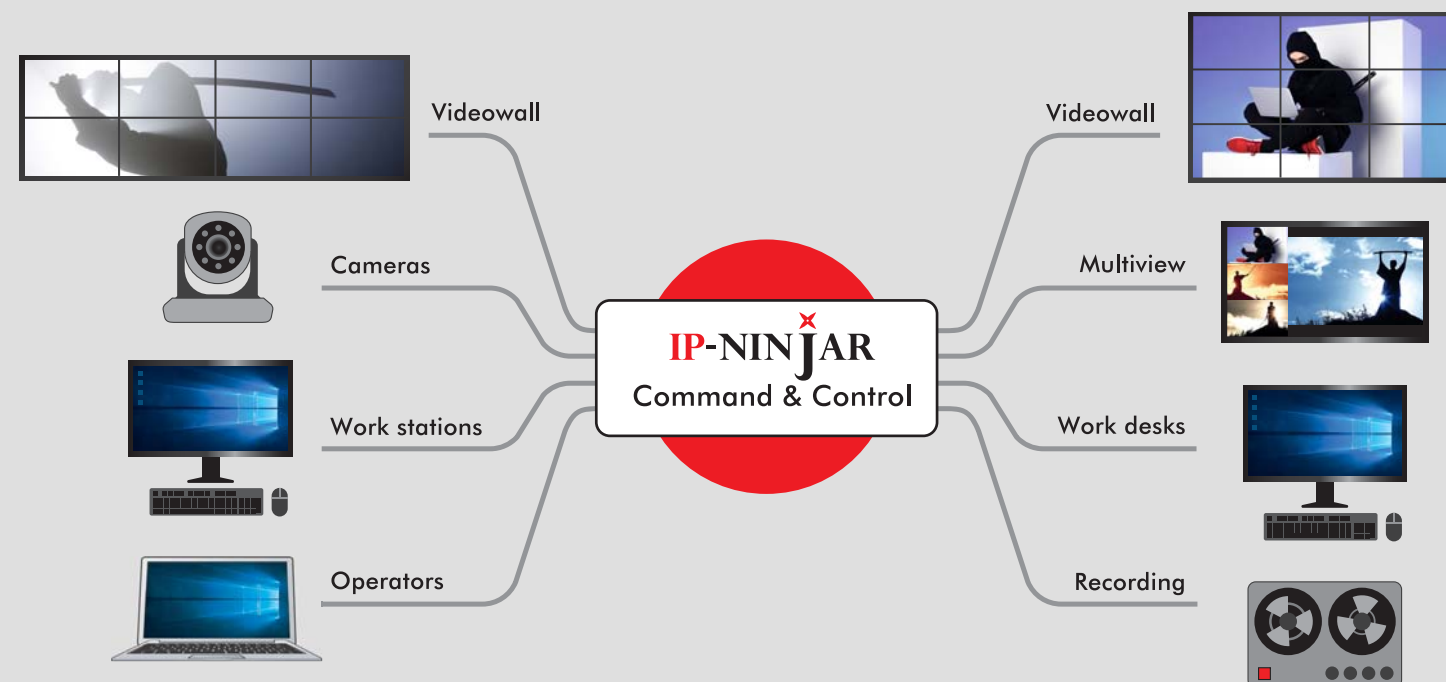
Operators need the ability to switch KVM from single workspaces to shared videowalls without latency while having ultra high resolution images at their disposal across the whole system.

IP-based AV solutions pave the way for organisations to undertake their responsibilities and implement future strategies.

SECURE

COMPLETE ALL-IN-ONE SOLUTION

REDUNDANT CONTROL

IP-NINJAR
Command & Control

Videowall

Cameras

Work stations

Operators

Videowall

Multiview

Work desks

Recording

DIGITAL SIGNAGE
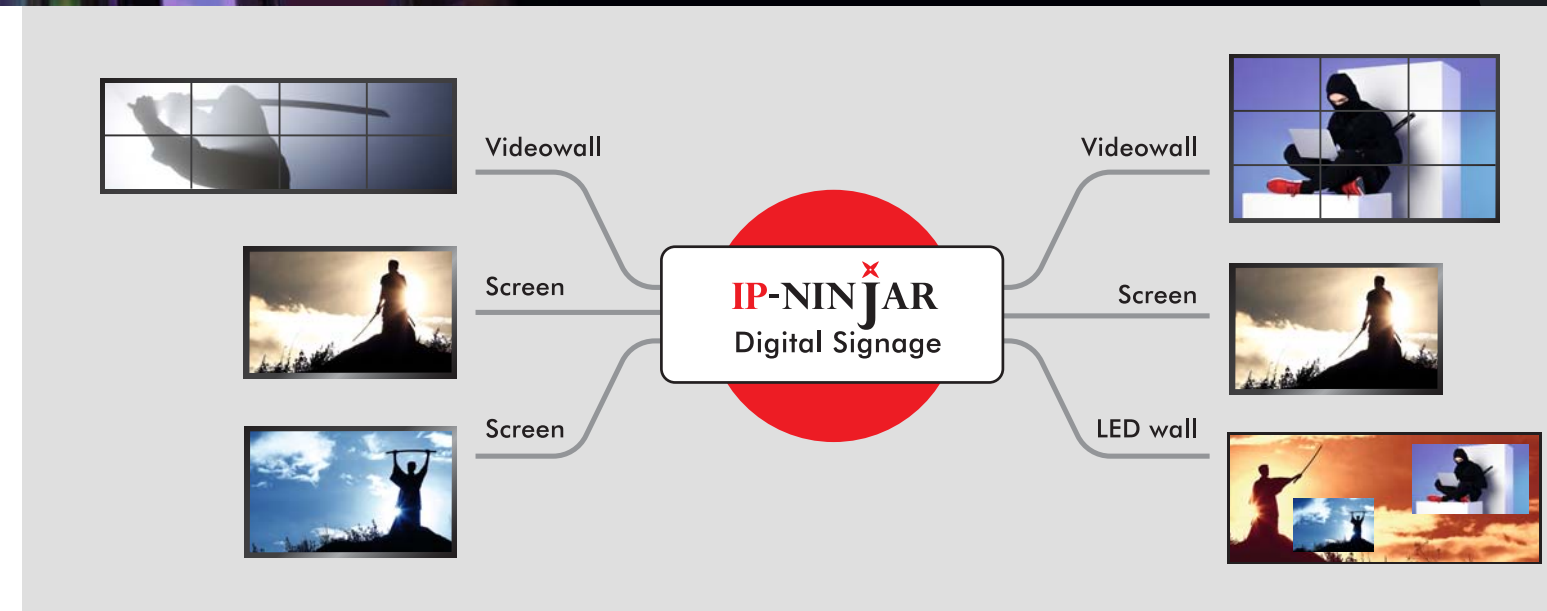
APPLICATIONS

Videowall Splitting

Matrix Switching

A reliable high-bandwith AV over IP network is the basic building block for the coming trends of Digital Signage. Welcome your guests in crystal clear 4K with HDR, treat your target audience with interactive signage using zero delay KVM extension or give your message the space it deserves on a high resolution video wall.

Flexible system control and maintenance is a crucial aspect for future-proofness. Integrated bidirectional Ethernet and RS-232 connectivity allows for the transmission of status messages, for example to reduce display downtime at the point of sale.

4K@60 4:4:4

RS232 CONTROL

INDEPENDENT AUDIO ROUTING

Videowall

Screen

Screen

IP-NINJAR
Digital Signage

Videowall

Screen

LED wall

One common infrastructure – many different applications

CRUISE SHIP

APPLICATIONS

Videowall Splitting
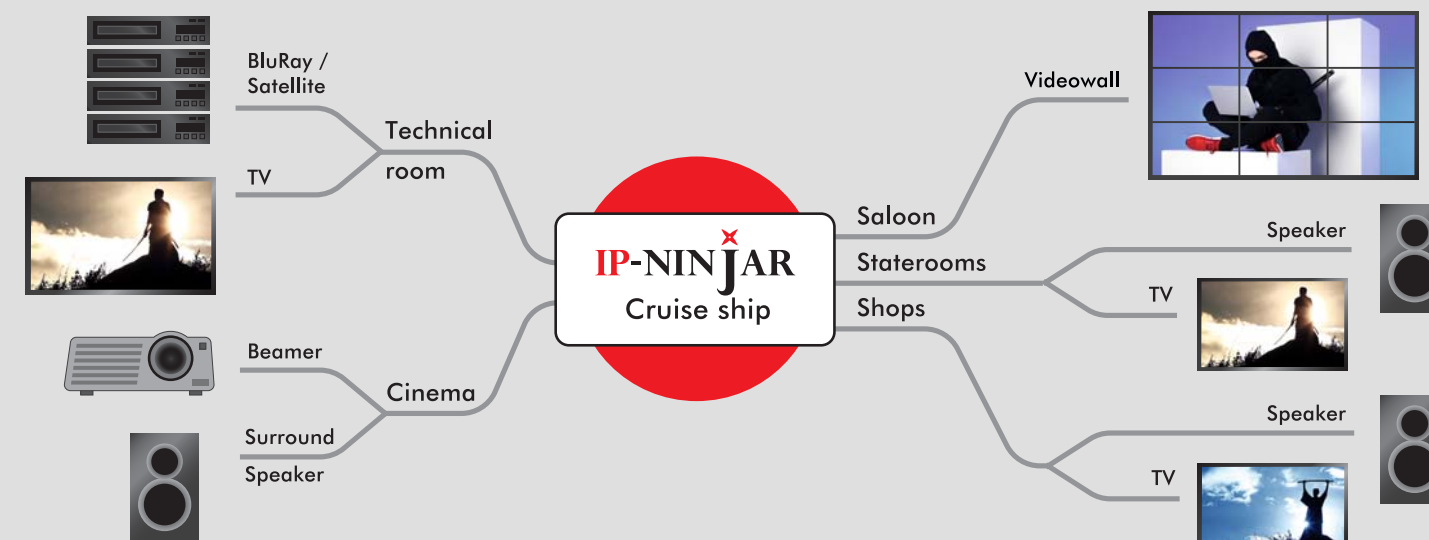Matrix Switching
Audio De-embedding
System Redundancy

As much as modern cruise ship design is about lifestyle and design statements, it is about implementing the latest technologies on all levels. Customers expect their onboard audio visual systems to be the central hub for digital information and entertainment with a discreet apperance.

High-bandwith AV over IP forms the backbone of a highly sophisticated network that supplies the atrium, the lido deck, the showroom, the cabins, the bridge etc. with indvidual content of the passengers' choice.

**MIXED
FIBER / CAT**

**3RD PARTY
LAN DEVICES**

**LOW / REMOTE
MAINTAINANCE**

BluRay /
Satellite

TV

Technical
room

Beamer

Cinema

Surround
Speaker

IP-NINJAR
Cruise ship

Saloon

Staterooms

Shops

Videowall

Speaker

TV

Speaker

TV

One common infrastructure – many different applications

IDK products

IDK
with your vision, Always.

NJR-T01UHD-MM/SM
IP-NINJAR Optical Fiber Transmitter

- Transmitter
- HDMI2.0 / HDCP2.2
- HDMI pass thru out
- Scaler (Multiview)
- Multimode (300m) / Singlemode (10/40km)
- Audio De-/embedding
- 1 GBE tunneled Network
- Bidirectional RS-232

NJR-R01UHD-MM/SM
IP-NINJAR Optical Fiber Receiver

- Receiver
- HDMI2.0 / HDCP2.2
- Scaler (fast Switch / Videowall / Multiview)
- Multimode (300m) / Singlemode (10/40km)
- Audio Deembedding
- 1 GBE tunneled Network
- Bidirectional RS-232

NJR-T01UHD-CU
IP-NINJAR CAT Transmitter

- Transmitter
- HDMI2.0 / HDCP2.2
- HDMI pass thru out
- Scaler (Multiview)
- 10 GBE (100m)
- Audio De-/embedding
- 1 GBE tunneled Network
- Bidirectional RS-232

NJR-R01UHD-CU
IP-NINJAR CAT Receiver

- Receiver
- HDMI2.0 / HDCP2.2
- Scaler (fast Switch / Videowall / Multiview)
- 10 GBE (100m)
- Audio Deembedding
- 1 GBE tunneled Network
- Bidirectional RS-232

NJR-T04HD-MM/SM
IP-NINJAR Optical Fiber Transmitter, Scaler & Combiner

- Transmitter
- 4x HDMI1.4 / HDCP1.4
- Scaler (Multiview)
- Multimode (300m) / Singlemode (10/40km)
- 1 GBE tunneled Network
- bidirectional RS-232

NJR-R04HD-MM/SM
IP-NINJAR Optical Fiber Receiver, Scaler & Splitter

- Receiver
- 4x HDMI1.4 / HDCP1.4
- Scaler (fast Switch / Videowall / Multiview)
- Multimode (300m) / Singlemode (10/40km)
- 1 GBE tunneled Network
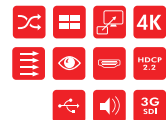- Bidirectional RS-232

NJR-CTB
IP-NINJAR Control Box

- Control Engine
- Web based GUI
- Open TCP/IP based control
- Separate Control- and Video-Network
- Virtual rooms and tags
- Redundancy support with automatic failover
- Matrix-, Multiview- and Videowall-control

NJR-PRV
IP-NINJAR Thumbnail Previewer

- Preview capture engine
- Thumbnail Multiview
- Configurable
- H.264 stream output
- Schedule previews

NJR-T01SDI-MM/SM
IP-NINJAR SDI Transmitter

- Transmitter
- 3G-SDI Input
- 3G-SDI pass thru out
- Scaler (Multiview)
- Multimode (300m) / Singlemode (10/40km)
- Audio De-/embedding
- 1 GBE tunneled Network
- Bidirectional RS-232

PDU-1209
IP-NINJAR Power Distribution Equipment

- Compact Power Supply
- 9 12V/3.3A Outputs
- Overcurrent Protection
- Locking mechanism

SWC-2000
Remote Controller

- Remote Control
- PJLink
- Security Lock
- Web Control
- Rack or table mount

Napa USB
USB to Ethernet Converter/Hub

NAPA

- USB Extension for IP-NINJAR
- USB 2.0 over 1 GbE
- KVM Matrix Switching
- Seamless integration
- 4port Hub on Client side

HUAWEI products

HUAWEI

S9712 Series
576-Port Routing Switch

- Modular Switch
- Non-blocking architecture
- Virtual switching
- Up to 576 10 Gb Ports
- 100G / 40G blades available
- Stacking (static / LACP)
- Redundant network path setup

S9706 Series
288-Port Routing Switch

- Modular Switch
- Non-blocking architecture
- Virtual switching
- Up to 288 10 Gb Ports
- 100G / 40G blades available
- Stacking (static / LACP)
- Redundant network path setup

S9703 Series
144-Port Routing Switch

- Modular Switch
- Non-blocking architecture
- Virtual switching
- Up to 144 10 Gb Ports
- 100G / 40G blades available
- Stacking (static / LACP)
- Redundant network path setup

S6720-54C-EI
48-Port Routing Switch

- Non-blocking architecture
- 48 10G SFP+ Ports
- 2 40G QSFP+ Ports
- Stacking (static / LACP)
- Redundant network path setup
- Dedicated control port

S6720-32C-SI
24-Port Routing Switch

- Non-blocking architecture
- 24 Ethernet 100M / 2.5 / 5 / 10G ports
- 4 10G SFP+ Ports
- Stacking (static / LACP)
- Redundant network path setup
- Dedicated control port

eSight
Software Suite

Unified software suite for planning, operating and maintaining complex enterprise ICT infrastructure
24/7 alarm monitoring and real-time notification
Holistic equipment room infrastructure, application, storage, and network resource capacity analysis
Automatic device discovery
Batch configuration delivery and quick service provisioning

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