



Breaking Boundaries – Your AV over IP Trailblazer

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ABOUT US

Established in 2011, Kiloview is the leading hardware manufacturer and software developer in the AV over IP industry. Our product line covers a comprehensive range of turnkey solutions, including conversion, transmission, management, monitoring, and recording. Kiloview has rapidly emerged as one of the fastest-growing companies in IP-based industries, ranking No.1 in both technological capabilities & brand influence within the NDI domain.

Through a portfolio boasting 60+ intellectual property rights & software copyrights, Kiloview remains committed to "Solving Customers' Real Problems". We have continuously pushed boundaries and established long-term strategic partnerships with NewTek, BBC, NBC, CCTV, Youku & many other industry partners. The sales network extends to 150+ countries & regions.

Determined to be "Your AV over IP Trailblazer", we focus on foundational AV over IP technologies. In the ever-evolving landscape, Kiloview prioritizes innovative R&D to deliver revolutionary solutions to customers.

15+

Years of Technical
Accumulation

10,000+

Customers Served

150+

Countries and
Regions Covered

300,000+

Product Units Sold



Kiloview focuses on the field of AV over IP, continuously pushing the boundaries of technology to provide you with innovative products & solutions.



Cutting-edge
Technology



Comprehensive
Solutions



Quality
Assurance



Complete IP-based



Lightweight



24*7

From the hot African continent to the cold Nordic ice fields, from the spirited San Fermín to the mysterious Sanxingdui Archaeological Site, from the rocket launch monitoring to "Jiaolong" Deep Sea video transmission, Kiloview captures every vision of this world.



WHAT DO WE DO

Lightweight

Flexibility

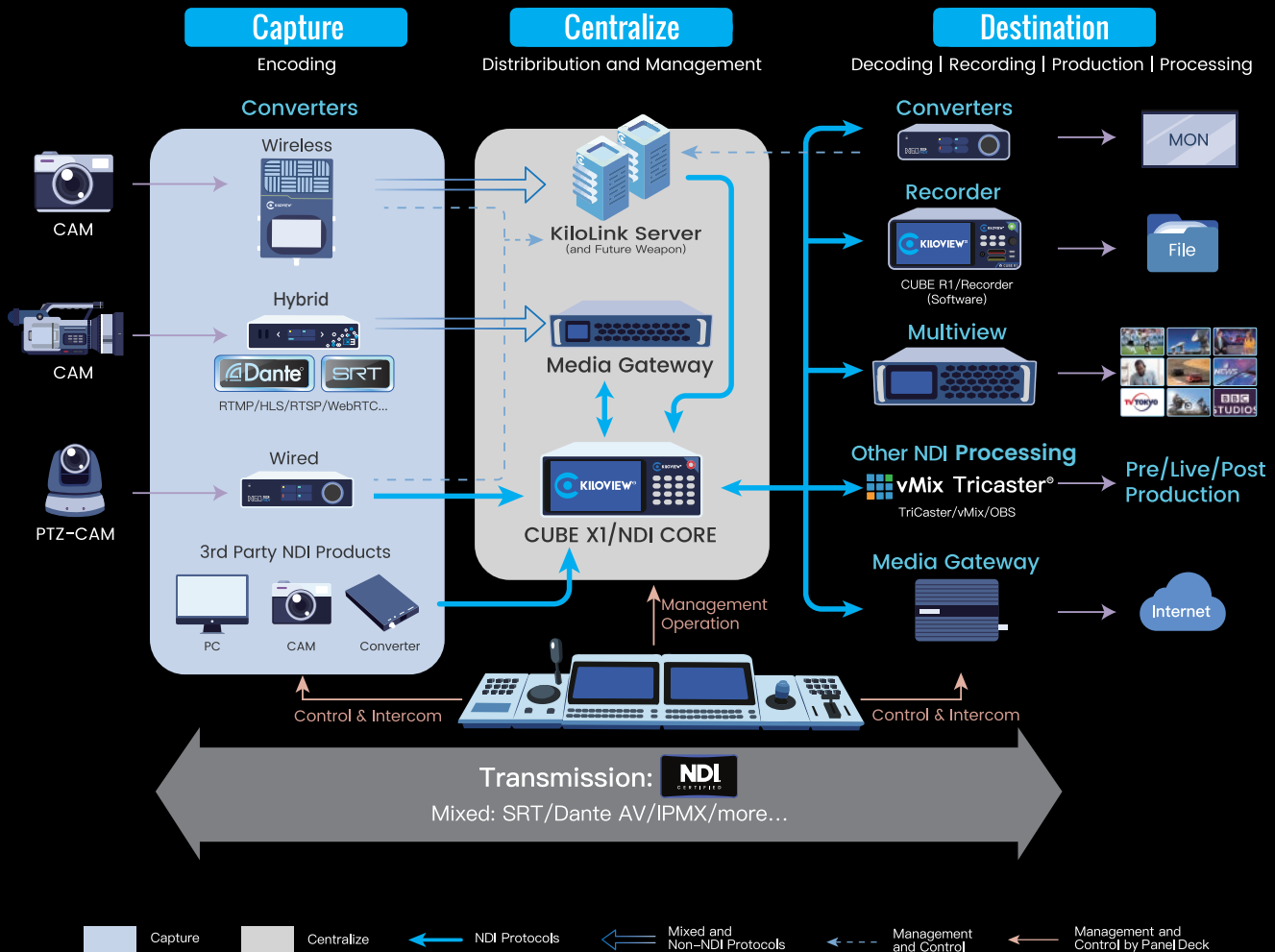
Expandability

Interoperability

Easy Deployment

Powerful Management

Kiloview specializes in providing comprehensive one-stop solutions for AV over IP industry. With core KiloLink & NDI technologies, we've built a complete IP ecosystem covering video capture, encoding, management, recording, decoding, monitoring, and production. This ecosystem, characterized by its full IP-based & lightweight advantages, is widely applicable across various fields, including broadcasting, healthcare, education, conferences, sports, houses of worship & other AV-related industries.



Complete IP Integrated Solution

In the AV over IP field, Kiloview provides a total IP ecosystem for users, covering various industry scenarios.



Broadcast

- 5G 4K NDI OB Van
- Portable NDI EFP
- Reality Show Centralized Monitoring and Recording



Conference

- On-Site Meeting Room Interconnection
- Conference Camera NDI Product Matching/Custom Upgrade



Healthcare

- Surgical Training
- Surgical Video Recording
- Multi-Venue Live Streaming



Sports

- Sports Live Streaming
- Assisting Referee Monitoring
- Multi-Arena Centralized Live Streaming
- Multi-terminal NDI Screen Casting in Arenas



Education

- On-Campus Television Station
- Multi-Campus Centralized Live Streaming
- Lecture Recording/Online Lecture



House of Worship

- Weekly Service Streaming
- Holiday Celebrations Recording
- Weddings Recording & Streaming



For detailed solutions, please refer to the "Kiloview Solutions Manual".
You can also scan the QR code or visit www.kiloview.com.cn for more.

WHY CHOOSE US



The most Comprehensive IP Solutions globally

- Provide users with one-stop AV over IP solutions, covering encoding, decoding, network transmission, streaming, monitoring, central management, recording, and other AV related applications.



Top.1 Technical Strength @ NDI

Since 2016, Kiloview has been collaborating closely with NDI officials to enhance & refine the NDI ecosystem. Leveraging years of technological expertise and innovation, Kiloview proudly introduces the industry's first total NDI studio & NDI OB van.



Integrated R&D, Production and Sales, Independent Software & Hardware

R&D personnel account for 55%, holding 60+ domestic & global patents, software copyrights, and other intellectual property rights.

Official Partners

Kiloview insists on providing the most professional AV over IP solutions to clients across various industries worldwide.



03 NDI SOLUTIONS

Kiloview offers the most comprehensive solutions in the NDI field. The product line covers NDI transmission (encoders/decoders), NDI distribution systems, NDI multiview monitoring, NDI multi-channel recording, NDI protocol conversion, real-time voice call and centralized device management platform.

The product family is NDI Officially Certified, and seamlessly integrates with products from other manufacturers, ensuring perfect compatibility with production systems from Panasonic, Sony, vMix, OBS, and many more.

- CUBE X1 Distribution System
- NDI CORE MAX
- CUBE R1 NDI Recording System
- NDI Recorder (Software)
- NDI CORE (Software)
- Multiview Pro NDI Monitoring System
- LinkDeck IP Control Panel



TOP-PERFORMANCE, INTEGRATED HARDWARE & SOFTWARE, POWERFUL DISTRIBUTION

CUBE X1 Distribution System

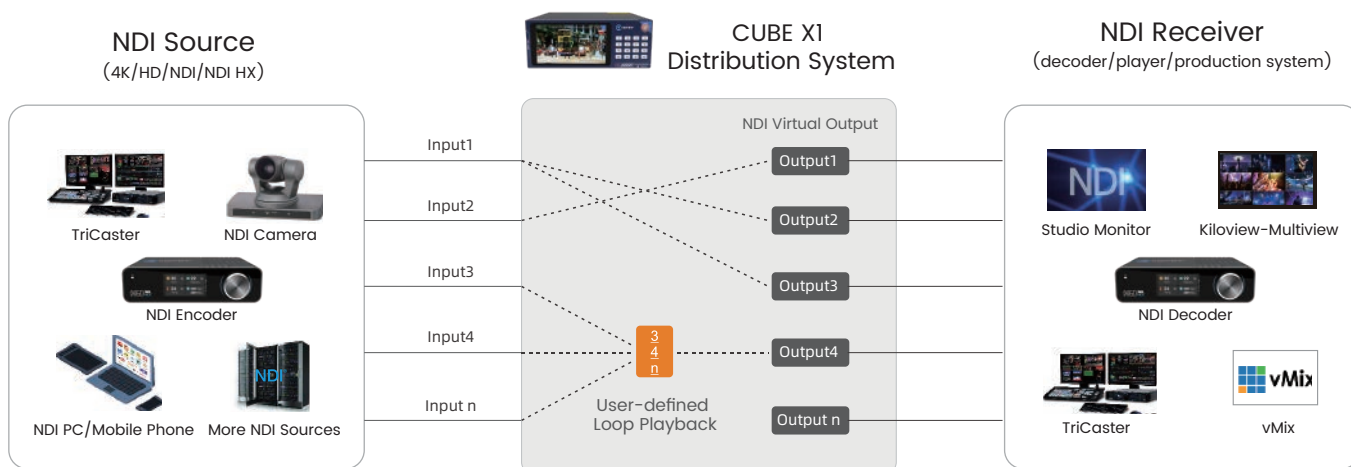
16-CH of inputs & 32-CH of outputs

All NDI protocols support

Seamless switching



The **CUBE X1 Distribution System** is a compact semi-2U device to route & distribute NDI video streams. It supports NDI HX 16 inputs/32 outputs (if all NDI High Bandwidth sources, 13 inputs/26 outputs), enabling seamless switching of all signals. Functions include router distribution mode, multi-channel distribution, multi-task grouping management, signal looping playback. It is compatible with various NDI formats (NDI HX/NDI HX3), without resolution (UHD/HD) limitations of inputs. The CUBE X1 system can be perfectly applied in scenarios such as broadcasting & TV production, online streaming, medical teaching demonstrations, video conferences, etc.

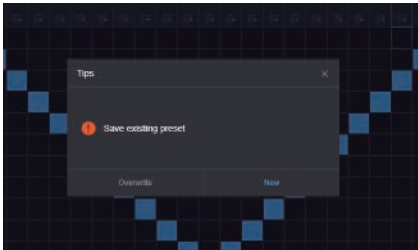


NDI Distribution Workflow

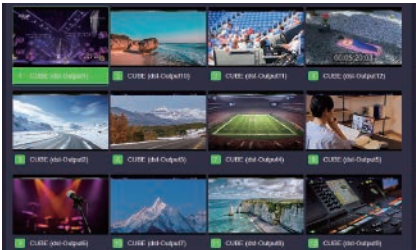
Distribution Mode: All NDI sources are individually connected to the matrix server, with switching & distribution handled internally.

Router Mode: Allows decoding terminals to directly pull NDI input video sources without passing through the matrix, saving bandwidth and effectively improving the performance of the X1.

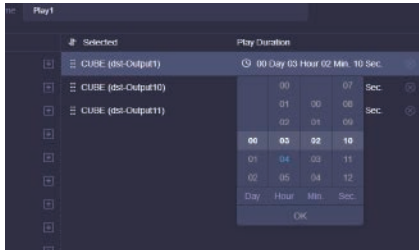
The Most Powerful NDI Distribution System So Far



Custom operating panels



Visual operation



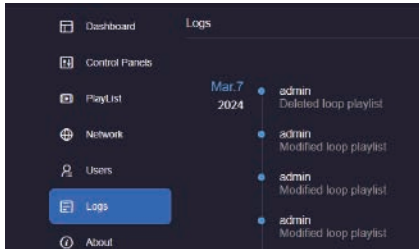
Custom playlist



Clear operational status

| NDI Source(s) | NDI Output(s) |
|-------------------------|-------------------------|
| 1. CUBE (ndi-Output1) | 1. CUBE (ndi-Output1) |
| 2. CUBE (ndi-Output2) | 2. CUBE (ndi-Output2) |
| 3. CUBE (ndi-Output3) | 3. CUBE (ndi-Output3) |
| 4. CUBE (ndi-Output4) | 4. CUBE (ndi-Output4) |
| 5. CUBE (ndi-Output5) | 5. CUBE (ndi-Output5) |
| 6. CUBE (ndi-Output6) | 6. CUBE (ndi-Output6) |
| 7. CUBE (ndi-Output7) | 7. CUBE (ndi-Output7) |
| 8. CUBE (ndi-Output8) | 8. CUBE (ndi-Output8) |
| 9. CUBE (ndi-Output9) | 9. CUBE (ndi-Output9) |
| 10. CUBE (ndi-Output10) | 10. CUBE (ndi-Output10) |
| 11. CUBE (ndi-Output11) | 11. CUBE (ndi-Output11) |
| 12. CUBE (ndi-Output12) | 12. CUBE (ndi-Output12) |

Input/output management



Log & permission management



- Automatic discovery of NDI sources within the local network
- 8-core ARM64 CPU with 12GB RAM
- 5.5" touch screen with 16 buttons
- Redundant power supply. Total consumption <20W
- Dual cooling fans, ventilation holes, 24/7 silent operation
- Two 10GbE ports for multiple streams & guaranteed bandwidth
- Dual Expandable USB ports for mouse, keyboard and USB driver
- The half-width of 2RU
- Reinforced structure for impact resistance

ULTIMATE MASS DISTRIBUTION CAPABILITY

NDI CORE MAX




10G/40G fiber ports

3U server infrastructure

Seamless switching

Cluster expansion support

NDI CORE MAX is the ideal solution (3U infrastructure) for multi-channel replication, distribution and management of NDI streams. It is equipped with dual 10G fiber ports (optional 40G fiber card), supporting up to 4KP60. It simultaneously manages up to 166 channels of video streams I/O (40G card, 1080P60), or 50 channels of 1080P60 streams I/O are supported with 10G card. Compatible with various formats (NDI HX/NDI HX3) & resolutions (UHD/HD), it suits diversified scenarios with high quality management ability.

-  3U server infrastructure with dual power backup
-  Built-in water-cooling system for stable use
-  Dual 10G fiber ports (optional 40G Ethernet card)
-  4*cooling fans with ventilation holes for heat dissipation
-  Supports all NDI sources for switching, copying and distribution
- NDI** Supports multi-channel NDI stream replication & distribution
Compatible with various NDI formats
-  Supports I/O panel or cross-point panel
-  Supports signal loop playback, dynamically adjusting playback order/time
-  Supports web-based operation and external control panel
- API** Supports API integration & development

intel i7

Customizable



CUBE X1 / NDI CORE MAX Tech Specs

| Model | CUBE X1 Distribution System | NDI CORE MAX |
|-----------------------|---|--|
| Inputs/Outputs | 4KP60 up to 5/10 NDI inputs/outputs NDI High Bandwidth 1080P60 up to 13/26 I/O NDI HX up to 16 inputs and 32 outputs Total input bandwidth not exceeding 2.5 Gbps Total output bandwidth not exceeding 5 Gbps | 10G fiber card single port 4KP60 20*20 I/O, 1080P60 40*40 I/O 10G fiber card dual ports 4KP60 24*24 I/O, 1080P60 50*50 I/O 40G fiber card single port 4KP60 84*84 I/O, 1080P60 148*148 I/O 40G fiber card dual ports 4KP60 90*90 I/O, 1080P60 166*166 I/O |
| NDI Formats | NDI High Bandwidth/NDI HX/NDI HX3 | NDI High Bandwidth/NDI HX/NDI HX3 |
| Resolution | Up to 4Kp60 | Up to 4Kp60 |
| USB Port | 2*USB 2.0 (Type-A) | 1*USB3.2 Gen2x2 (Type-C), 2*USB3.2 Gen2 (Type-A) 3*USB3.2 Gen1 (Type-A), 4*USB2.0 (Type-A) |
| Audio I/O | 1*3.5mm Line in 1*3.5mm Line out | / |
| Network | 2 x 10GbE SFP+ port; 1 x 1GbE RJ45 Ethernet port | 2 * 10G Fiber Port (Optional 40G) 1 * 10 Gigabit Ports |
| Output Port | 1*HDMI | / |
| Buttons | 16 buttons+1 Power | 1 Power |
| Display | 5.5" 1080p LCD touch screen | 5.5 inch touch screen |
| CPU | 8 CORE ARM 64-bit Processor | 16 CORE i7-13700KF |
| RAM | 12GB | 32GB |
| ROM | 16GB | 128G SSD |
| Power Supply | Redundant power 100~230V AC | Redundant Power 100~240V 800W |
| System | Linux | Linux |
| Weight | 2.00kg | 11.6kg |
| Management | Web | Web |
| Dimension (mm) | 220*231.45*88mm (Combine two CUBE X1 to 2RU) | 495*482*132mm (3RU) |

4K, INTEGRATED HARDWARE & SOFTWARE, MASTER-LEVEL RECORDING & PLAYBACK

CUBE R1 NDI Multi-Channel Recording System

Up to 4CH 4Kp60 or 9CH 1080p60

One-Click Recording

Dual SSD, Hot-swap function

Record while playback



Multi-Source Recording, Real-time Playback

The **CUBE R1** is the perfect NDI video recording & playback device for live production, post-production, and on-set. It supports simultaneous recording of up to 4 channels of 4K video or 9 channels of 1080P60 HD video. With 1/4/9 multi-screen video preview options and a 5.5-inch touch LCD display, you can watch the recorded video on the LCD screen without interrupting the recording process. It also provides real-time playback with features such as fast forward, slow forward, fast rewind, slow rewind, and frame-by-frame playback. Dual SSD storage drives and NAS support enable hot-swapping for unlimited NDI High Bandwidth/NDI HX/NDI HX3 recording.



Simultaneous recording of multiple resources (4K*4 1080p*9)



Preview of multiple (1/4/9) video screens



Native NDI Recording and Transcoding Recording



One-click time sync for timecode alignment



The compact 2U infrastructure (220*231.45*88mm)



5.5" touch screen, easy operation



Dual 10G SP+, one-click recording of 9-CH HD streams



Built-in hot-swappable 1TB/2TB SSD, non-stop recording



NDI Recording in native NDI format or converting NDI High Bandwidth to H.264/H.265 for recording



Redundant power supplies. Consumption < 20W



Built-in time sync, enabling synchronous timecode recording for all streams



Supports recording interface lock for accidental operations





Supports file splitting by duration or size while recording


KILOVIEW STORAGE STICK

3
YEAR
WARRANTY

 Superb writing speed. Averaging 369MB/s factory tested

 Peak operating temperature: 46.2°C, maintains stable operation under high temperature

 Higher TBW* (Total Bytes Written) , supporting uninterrupted recording for 24 hours

 Warranty up to 3 years or up to the maximum TBW* limited warranty
1TB: up to 1120 TBW, 2TB: up to 2400 TBW



Bitrate Reference Table

| Formats | NDI High Bandwidth | NDI HX | NDI HX 2 | NDI HX 3 |
|--------------------------|--------------------|------------|-----------|------------|
| Bitrate Reference | 100~250Mbps | 8~20Mbps | 1~50Mbps | ~80Mbps |
| One Hour | 43~109GB | 3.5~8.7GB | 0.4~21GB | ~35GB |
| 1TB (1080P60) | | | | |
| Single Channel | ~24 hours | ~105 hours | ~43 hours | ~26 hours |
| Four Channels | ~6 hours | ~26 hours | ~10 hours | ~6.5 hours |
| Nine Channels | ~2.5 hours | ~12 hours | ~5 hours | ~3 hours |
| 2TB | | | | |
| Single Channel | ~48 hours | ~210 hours | ~86 hours | ~54 hours |
| Four Channels | ~12 hours | ~52 hours | ~20 hours | ~13 hours |
| Nine Channels | ~5 hours | ~24 hours | ~10 hours | ~6 hours |

Recording Performance

| Recording Performance | | 4KP60 | 1080P60 |
|-------------------------------------|--|------------|------------|
| Original NDI Codec Recording | NDI High Bandwidth | 4 Channels | 9 Channels |
| | NDI HX | 9 Channels | 9 Channels |
| Transcode while Recording | Transcode NDI High Bandwidth format to NDI HX or H.264/H.265 | 1 Channel | 4 Channels |

*The recording capacity only considers the peak data, and does not consider frame loss.

CUBE R1 Tech Specs


| | |
|----------------------------|---|
| Recording Capacity | Up to 9-channel 1920x1080P60 video/audio recording Up to 4-channel 3840x2160P60 video/audio recording |
| NDI Formats | NDI High Bandwidth / NDI HX / NDI HX3 |
| File Codec Formats | <div>Video</div> <ul style="list-style-type: none"> • SpeedHQ SHQ0/SHQ2/SHQ7 • H.264/AVC • H.265/HEVC • SpeedHQ to H.264/H.265 conversion <div>Audio</div> <ul style="list-style-type: none"> • FLT32 (No compression) • AAC (.MOV/.MP4 compatible) |
| Resolution | Up to 4KP60 |
| Storage | 2*Kiloview Storage Stick(Optional 1TB/2TB industry-grade NVMe SSD) |
| Display | 5.5" LCD touch screen |
| OSD | 1/4/9 grid preview, recording status and playback |
| Recording Strategy | By length or file size |
| Recording Format | .MOV |
| Control Knob | 1: support Backward/Forward and press to Pause/Resume |
| Buttons | 6: support record, stop, play, home/return, backward skip, forward skip. |
| Ports | 2*10GbE SPF+ Fiber Ethernet 1*1GbE RJ-45 Ethernet 1*HDMI 2.0 output, 2*USB 2.0 Type-A 1*3.5mm TRS audio line in/out |
| Cooling | Equipped with built-in dual cooling fans and a large ventilation mesh design, the entire system uses active air cooling to efficiently dissipate heat |
| Network | 2 x 10GbE SPF+ Fiber Ethernet, 1 x 1GbE RJ-45 Ethernet |
| CPU | 8 core 64-bit |
| RAM | 12GB |
| Power Supply | Redundant power, 100~230V AC |
| Operating System | Linux |
| Power Consumption | <20W |
| Working Temperature | -10°C~55°C / 14°F~131°F |
| Storage Temperature | -20°C~50°C / -4°F~149°F |
| Management | Web |
| Dimension (mm) | 220*231.45*88mm, half width of 2U rackmount chassis |


THE MOST RELIABLE NDI RECORDING SYSTEM


NDI Recorder


Kiloview NDI Recorder is the multi-channel software system to ensure all your NDI sources can be recorded separately in synchronization status. You can simply record up to 20 NDI High Bandwidth/NDI HX resources in 4K/HD resolution. It supports real-time preview/NAS/NTP-sync.


 Up to 4K recording and preview

 One-click NTP synchronization

 Real-time monitoring of device status

 1/4/9/16/20 multiview layouts

 Independent safety for system/recording process/operation

 Automatically discover of all NDI video sources locally or through discovery server




NDI Recorder (Software) Tech Specs

| Performance | | Trial | Full Version |
|-------------------------------|-------------------|------------------------|------------------------|
| Max CH of Recording | Kiloview Products | 4 | 20 |
| | Other Products | 2 | |
| Resolution | | 4KP60 | 4KP60 |
| Stream Type (preview) | | Sub Stream | Sub Stream |
| Frame Rate | | Depend on Video Source | Depend on Video Source |
| Recording & Storage | | SSD/TF Local Recording | SSD/TF Local Recording |
| One-Click NTP Synchronization | | Kiloview Device Only | Kiloview Device Only |
| One-Click Recording | | Support | Support |
| VU Meter | | Support | Support |
| Preview | | Support | Support |
| Auto-split of Recorded File | | Support | Support |
| Custom Layout | | Support | Support |
| Batch Data Elimination | | Support | Support |
| License Activation | | Support | Support |
| Management | | Web/KiloLink Server | Web/KiloLink Server |
| Operating System | | Windows | Windows |

CONTROL, ORGANIZE, ROUTE... EVERYTHING


NDI CORE

NDI Core is a centralized software system for all your NDI sources, building smooth and seamless switching channels for them. It supports various formats of NDI streams I/O, replication, and centralized management. The system supports resolutions up to 4K P60 without limitations on NDI versions.

 Automatically discover and add NDI sources in the local network

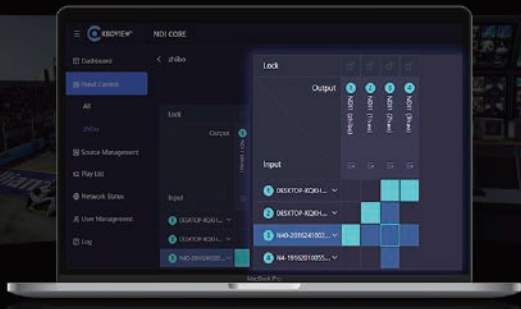
 Seamless switching, replication and distribution of NDI signals

NDI Compatible with NDI High Bandwidth/NDI HX/NDI HX3

 Two switch panels, I/O panel & cross-point for your choice

 Customizable control panel, independent setting I/O within the group

 15 day free trial, supports 4 inputs and 4 outputs before authorization



NDI CORE (Software) Tech Specs

| Items | | Basic | Pro | Hardware Recommendation |
|------------------------|-------------------|-------------------------------------|-------------------------------------|--|
| Versions | | 15-day free trial for limited 4 I/O | 15-day free trial for limited 4 I/O | Linux 4 CORE 1.5GHz X86 / X86-64 8G(16G) RAM Gigabit Ethernet |
| Max NDI Inputs/Outputs | Kiloview Products | Unlimited | Unlimited | |
| | Other Products | 16 | Unlimited | |
| Max I/O Resolution | | 4K P60 | 4K P60 | |
| Protocols | | NDI High Bandwidth/ NDI HX/ NDI HX3 | | |
| PTZ | | Support | Support | |
| Tally | | Support | Support | |
| NDI Discovery Server | | Support | Support | |
| API | | Support | Support | |
| Seamless Switch | | Support | Support | |
| Log Management | | Support | Support | |
| User Management | | / | Support | |

The Tech Specs shown above are for reference only, and please refer to official website: www.kiloview.com/en/ for details.

ENJOY YOUR MULTI-SCREEN MONITORING

Multiview Pro NDI Monitoring System

Up to 20 NDI streams previewing per window

Server Based-multiple devices accessible

Horizontal/vertical screen previewing

Remote control through Web interface

PVW+PGM



Broadcast-level Multiview System

NDI Multiview System (Multiview Pro) offers customizable multi-screen/multi-window displays. It monitors up to 20 video streams per window, with seamless switching and compatibility of NDI High Bandwidth & NDI HX/NDI HX3. You can operate directly via the web interface (based on WebRTC) for efficient screen monitoring & application switching.



100% customizable multi-screen layout
Each window supports 1-9/16/20 split-screen display



NDI output
Program Output / Mix Output



VU Meter/Center Cross /Safety Area/Tally/PTZ
Includes all necessary information for professional production



Real-time preview for multi-screen output
Seamless switch between PVW+PGM, supports single & multi-screen outputs

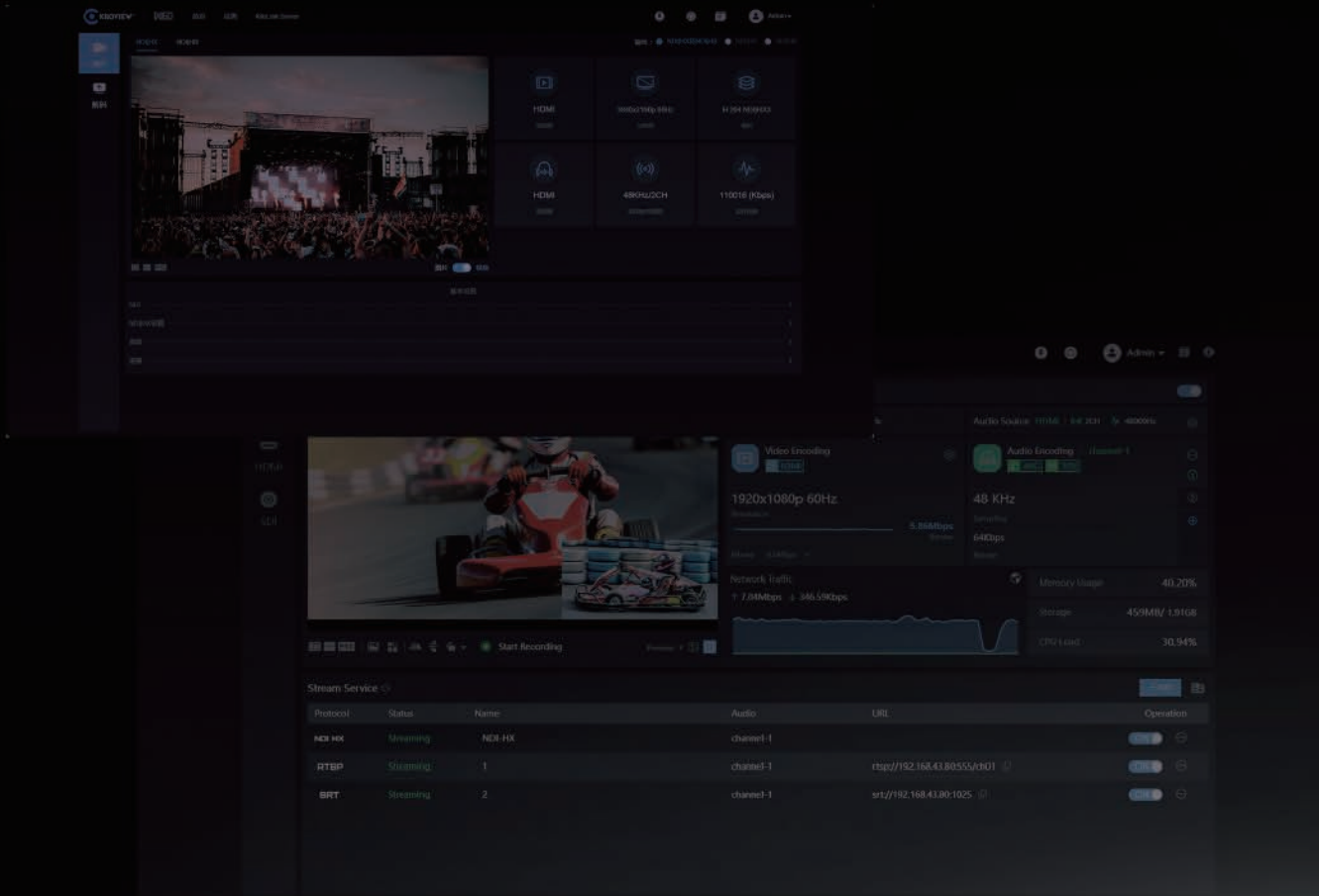


Automatically/manually discover NDI streams
Automatically detects and adds any NDI source within the local network subnet, or manually



Supports horizontal and vertical screen monitoring
Supports customizable screen rotation function, and achieves mixed monitoring of horizontal & vertical screen images

| Product Name | Multiview Pro NDI Monitoring System |
|--|--|
| NDI Protocols | NDI High Bandwidth/NDI HX/NDI HX3 |
| Multi Screen Segmentation Mode | Single window supports 1-20 layout, and the layout can be 100% customized Multiple windows simultaneously working (dependent on hardware performance) |
| Resolution | Up to 4KP60 |
| Main/Sub Stream Auto-adjustment | Support |
| PIP Mode | Support |
| Vu Meter/Center Cross/Safety Area/PTZ Camera Control | Support |
| Background Overlay/Tally Signal | Support |
| Settings Management | Web / mobile phone / iPad |
| Operating System | Windows / Mac OS |



04 ALL-IN-ONE NDI CONVERTERS

Kiloview offers a complete range of video encoding & decoding transmission devices, supporting NDI High Bandwidth / NDI HX / NDI HX3 formats. The product line covers 4K/HD, wired / wireless, portable / rack-mounted product series. Additionally, these devices support comprehensive features such as Tally, PTZ, PoE, and intercom, meeting diverse business requirements across various scenarios.

- N60/N50 All-in-One **4K HDMI/12G-SDI** Converter (NDI High Bandwidth+NDI HX+NDI HX3+SRT)
- N6/N5 All-in-One **HD HDMI/3G-SDI** Converter (NDI High Bandwidth+NDI HX+NDI HX3)
- N40 Plus/N3+ All-in-One **4K HDMI/3G-SDI** Converter (NDI High Bandwidth)



AUTHENTIC 4K, PERFECT A/V TRANSMISSION

N60/N50 All-in-One 4K Converter

NDI+SRT

Integrated Encoding & Decoding

4K60 HDMI / 12G-SDI



Integrated Encoding & Decoding

The **N60/N50** is Kiloview's next-generation NDI video encoding/decoding product, supporting up to 4KP60/12G-SDI NDI High Bandwidth/NDI HX/NDI HX3/SRT video streams.

Leveraging advanced FPGA technology and cutting-edge AVC/HEVC encoding/decoding & NDI algorithms, it supports YCbCr 4:2:2 color space and 10-bit color depth, achieving broadcast-grade quality. The device is equipped with LCD display and control wheel design for easy operation. It supports USB extended recording or NAS storage, with rich functions including Tally, PoE, PTZ, voice intercom, 3.5mm analog audio, etc.



4:2:2 10bit



High dynamic range capable



Multi-storage

NDI 6 Ready



Compact size with cold-shoe mounting

1.91" LCD for device status

Scroll wheel for quick settings

Built-in tally for real-time monitoring

Dual 1G Ethernet ports (one PoE port)

3.5mm audio line in and out

Supports TF card, USB expandable storage or NAS

Dual USB ports for Voice Intercom, Tally and PTZ control

N60: 4K HDMI I/O

N50: 12G-SDI I/O

SUPREME PERFORMANCE ALL-IN-ONE MAGIC BOX

N6/N5 All-in-One HD Converter (NDI)

NDI High Bandwidth+NDI HX

Encoding & Decoding

USB Camera Source to NDI Conversion

The N6/N5 are the most cost-effective all-in-one NDI encoding/decoding devices on the market. They both support NDI High Bandwidth/NDI HX/NDI HX3 protocols. The N6 features 1080P60 HDMI input/loop, encoding HDMI video sources into NDI streams. The N5 supports 3G-SDI input/loop, encoding 3G-SDI into NDI streams. Additionally, the N6/N5 can convert USB video sources to NDI via a USB interface, suitable for video conferencing and teaching scenarios. These devices are compact, portable, and easily mountable on cameras. They come with rich features including Tally, PoE, PTZ, 3.5mm analog audio input/output and intercom, meeting diverse needs.



USB port for headset, keyboard and external tally



3.5mm audio line in and out



LCD for device status



Compact size with cold-shoe mounting



USB camera input support, enabling USB to NDI stream conversion



Tally/PoE/PTZ control/KIS intercom



ENCODING & DECODING EXPERT


N40 Plus/N3+ All-in-One 4K/HD Converter (NDI High Bandwidth)


Integrated Encoding and Decoding


4KP60 HDMI/3G-SDI


Compact and portable

The **N40 Plus** supports bi-directional conversion between 4KP60 HDMI and NDI High Bandwidth. It features 4KP60 input/loop, encoding HDMI into NDI streams. The **N3+** supports bi-directional conversion between 3G-SDI and NDI, allowing for 3G-SDI input/loop (encoding SDI into NDI). Both devices feature LCD screen, built-in Tally lights, 3.5mm headphone jack, and support functions like PoE power supply, PTZ control, voice calls, etc.

 4KP60 HDMI I/O (N40+), 3G-SDI I/O (N3+)


 YCbCr 4:2:2 8bit high-quality encoding


 Supports Ethernet (PoE), DC, and USB power supply

 Tally/PoE/PTZ control/KIS intercom

 3.5mm audio line in and out

NDI NDI discovery server embedded/seamless switching

 USB port for headset, keyboard and external Tally

 Up to 10 outputs including 9 decoded addresses
& 1 blank preset box (customizable background color)



NDI Series Products Tech Specs

| Model | N60/N50 | N6/N5 | N40 Plus | N3+ |
|--------------------------|---|---|---|---|
| Internet Protocol | NDI High Bandwidth +NDI HX+NDI HX3+SRT | NDI High Bandwidth +NDI HX+NDI HX3 | NDI High Bandwidth | NDI High Bandwidth |
| Video Input | N60: 4KP60 HDMI N50: 12G-SDI | N6: 1080P60 HDMI N5: 3G-SDI | 4KP60 HDMI | 3G-SDI |
| Video Output/ Loopout | N60: 4KP60 HDMI N50: 12G-SDI | N6: 1080P60 HDMI N5: 3G-SDI | 4KP60 HDMI | 3G-SDI |
| Network | 2*RJ45 1000Mbps Ethernet port(PoE) | 1*RJ45 1000Mbps Ethernet port(PoE) | 1*RJ45 1000Mbps Ethernet port(PoE) | 1*RJ45 1000Mbps Ethernet port(PoE) |
| Audio Port | 1*3.5mm Line in 1*3.5mm Line out | 1*3.5mm Line in/out | 1*3.5mm Line in/out | 1*3.5mm Line in/out |
| Resolution | Up to 4KP60 | Up to 1080P60 | Up to 4KP60 | Up to 1080P60 |
| USB Port | 1*USB 3.0 Type-A 1*USB 3.0 Type-C | 1*USB 3.0 Type-C | 1*USB 2.0 Type-C | 1*USB 2.0 Type-C |
| PoE | Support | Support | Support | Support |
| Tally | LCD Tally and back panel Tally | LCD Tally and back Tally | LCD Tally and back Tally | LCD Tally and back Tally |
| PTZ Control | USB expansion PTZ over IP Network control | | | |
| DHCP | Support | Support | Support | Support |
| Recording | Support (USB/NAS) | / | / | / |
| Management | Web/Kilolink Server | Web/Kilolink Server | Web/Kilolink Server | Web/Kilolink Server |
| Dimension (mm) | N60: 135*106*35mm N50: 135*124*35mm | N6: 100*95*23mm N5: 100*111*23mm | 100*80*23mm | 100*97*23mm |
| Power Consumption | 16w | 6w | 6w | 6w |
| Display | 1.91" LCD screen with a scroll wheel Control the scroll wheel+power button | 1.14" LCD screen with Left and right buttons | 1.14" LCD screen with Left and right buttons | 1.14" LCD screen with Left and right buttons |
| Color Performance | 4:2:2 10bit | 4:2:2 8bit | 4:2:2 8bit | 4:2:2 8bit |
| Web Cam | / | Support | / | / |
| Weight | N60: 545g N50: 520g | 400g | 400g | 400g |

05 5G/4G BONDING WIRELESS SOLUTIONS

Kiloview's P Series 5G/4G bonding encoders stand out as one of the most cost-effective solutions for multi-link bonding scenarios. Utilizing the patented KiloLink tech, it offers users a free, privately deployable bonding service platform, significantly reducing costs. Moreover, its unique technology ensures low latency/high quality/stable bonding transmission, providing users with excellent outdoor live broadcasting, remote production, and mobile shooting experience.

- P3 5G Wireless Bonding Encoder
- P3 Mini 4G Wireless Bonding Encoder



EXPERIENCE SEAMLESS STREAMING WITH OUR FLAGSHIP LAUNCH

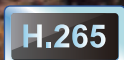
P3 5G Wireless Bonding Encoder

5G/4G bonding

3G-SDI and 4K HDMI inputs

Modular Customization

H.265 codec



Stable & Reliable LIVE

The P3 is a new generation 5G wireless bonding encoder based on the patented, reliable and free technology, the one and only - KiloLink. It supports six network connections, including 4CH 5G (or 4CH 4G), WiFi, and Gigabit Ethernet. With a built-in 3500mAh battery and a 7000mAh external battery, it ensures all-day use. Additionally, the new modular design includes 5G/4G communication modules, WiFi/SD storage modules, and battery modules, providing flexible options.

The P3 features 3G-SDI & 4K HDMI video input interfaces, supporting video input of up to 4KP30 with H.265/H.264 encoding. It is compatible with multimedia protocols such as RTSP, RTMP, SRT, HLS, and NDI HX, and can stream directly to external platforms or integrate with the free/private KiloLink Server Pro for high-quality, multi-link aggregated streaming.



5G/4G/WiFi/Ethernet



Redundant batteries for all day use



LCD touch screen



KiloLink is a proprietary multi link bonding transmission technology independently developed by Kiloview. It can combine multiple 5G/4G/WiFi/Ethernet networks to achieve bonding transmission stability, with lower latency.

Kiloview will provide users with free KiloLink bonding software and technical support, and users can deploy it privately, on-premise, or in the cloud.



EASY OUTDOOR STREAMING ANYTIME, ANYWHERE

P3 Mini 4G Wireless Bonding Encoder

Multi-4G Bonding

Compact Size








H.265/H.264 codec

SDI+HDMI dual interface

NDI HX+SRT+RTMP

The **P3 Mini** is the next generation 4G wireless bonding encoder built on KiloLink transmission technology. Featuring H.265/H.264 encoding, it offers dual interfaces with 3G-SDI and HDMI inputs, supporting up to 1080P60. The P3 mini supports multi-channel wireless bonding connections, simultaneously linking to 3CH of 4G cellular networks, WiFi (2.4G/5G dual-band) and Ethernet.

Additionally, the P3 Mini can stream directly to external platforms or integrate with seamlessly integrates with the KiloLink Server Pro, enabling remote management and comprehensive protocol streaming services. It also supports cross-internet voice intercom functionality, meeting a wide range of application needs.

-  5-CH bonding (3-CH 4G cellular+1*WiFi+1*Ethernet)
-  LCD touch screen for real-time video preview & device operation
-  Supports PD fast charging
-  Supports graphic and text overlay function
-  Dual USB interfaces for keyboards, PTZ and drives, etc
-  Local recording function via USB storage devices
-  Web operation/KiloLink Server for remote management

H.265

4G

SRT

USB

5G/4G Bonding Encoder Tech Specs

| Model | P3 | P3 Mini |
|------------------------------|---|---|
| Video Encoding | H.265/H.264 | H.265/H.264 |
| Resolution | Up to 4KP30 | Up to 1080P60 |
| Video Input | 1*4KP30 HDMI+1*3G-SDI+1*USB | 1*1080P60 HDMI +1*3G-SDI+1*USB |
| Recording/Storage | SD card and USB expansion | USB expansion |
| Audio Port | 1*3.5mm Line in or SDI/HDMI embedded | 1*3.5mm Line in or SDI/HDMI embedded |
| Multi-channel Audio Encoding | HDMI: 4 channels SDI: 4 channels Line in: 1 channel | HDMI: 4 channels SDI: 4 channels Line in: 1 channel |
| Bonding Performance | WiFi/4 channels of 5G(Or 4 channels of 4G) cellular, WiFi (2.4G/5G), Ethernet | 3CH 4G cellular network, WIFI (2.4G/5G dual band) USB expanded Ethernet |
| Network | 5G/4G/WiFi/Ethernet | 4G/WiFi/Ethernet |
| Protocols | NDI HX/SRT/RTMP/RTSP/RTP/HLS/TS-UDP (with KiloLink Server) | NDI HX/SRT/RTMP/RTSP/RTP/HLS/TS-UDP (with KiloLink Server) |
| Modular Design | DIY 5G/4G communication modules WiFi/SD storage modules, and battery modules | / |
| Button | Power | Power |
| Display | 4.3" LCD touchscreen | 3" LCD touchscreen |
| Battery | Built-in 3500mAh@7.2V 25.2W battery External 7000mAh@7.2V 50.4W battery | 4900mAh@7.2V 35.28W |
| Voice Intercom | Support | Support |
| Dimension (mm) | 211*143*68mm | 138*85*35mm |
| Power Consumption | 20w | 16w |
| Power Supply | DC 12V 3A | DC 12V/3A PD Fast Charging |
| Management | Web/KiloLink Server | Web/KiloLink Server |
| Working Temperature | -15°C ~ 45°C | -15°C~45°C |

TWO-IN-ONE FOR THE BEST CONVERSION

E3 4K HDMI+3G-SDI H.265 Video Encoder

Dual-channel Simultaneous Encoding

Multi-channel audio encoding

Recording while streaming

Up to 8 platforms streaming



Top-notch Encoding Performance

The E3 is the new generation of 4K multi-functional encoder. It features dual interfaces of 3G-SDI and 4K30 HDMI for input/loop. It supports NDI HX/NDI HX3/SRT/RTMP/RTMPS/HLS/TS over UDP/RTSP, etc, allowing simultaneous streaming to 8 live platforms. The E3 meets the low-latency transmission needs within a LAN through NDI HX and also assists in remote transmission through SRT, making it the ideal cost-effective device that fully meets your specific requirements.



Dual-channel inputs with loop-out



NDI HX+SRT full protocols



High Bitrate streaming available (adjustable)



Pic-in-Pic composite encoding



Multi-destination streaming



Local storage and NAS



Lightweight with only 300g



LCD with touch buttons for status monitoring and settings



NTP network clock sync supported



Supports embedded audio in SDI & HDMI/3.5mm analog audio input



Low power consumption (≤5W)



Tally/PoE/PTZ control/KIS intercom



Dual HDMI & SDI inputs with loop-out



3*USB ports for headset, keyboard and external Tally

E3 Encoder Tech Specs

| Model | E3 |
|------------------------------|---|
| Codec Format | H.265/HEVC/H.264/AVC, Up to 4KP30 video encoding |
| Internet Protocols | NDI HX/NDI HX3/RTSP/SRT/TS over UDP/RTMP/RTMPS/HLS |
| Video Input | 1*HDMI with loop-out, 1*3G-SDI with loop-out |
| Audio Port | 1*3.5mm Line in, HDMI: 4 channels SDI: 4 channels, Mix: 4 channels |
| Audio Encoding Format | H.265/HEVC/H.264/AVC up to 4KP30 video encoding |
| Highest Resolution | HDMI: 3840x2160@30Hz SDI: 1080p60 |
| Network | 1*10/100M/1000M RJ45 Ethernet Port, PoE (802.3af) |
| USB Port | 2*USB 2.0 Type-C 1*USB 2.0 Type-A |
| Recording/Storage | USB extended hard drive recording or NAS network storage |
| Encoding Performance | Single input: SDI up to 1080P60 HDMI up to 4KP30 Dual input: HDMI up to 1080P60 for simultaneous encoding / mixed IP streams |
| PoE/PTZ/Tally/Intercom | Support |
| Display | 1.14" LCD screen |
| Buttons | Power + Left&Right |
| Video Crop | Support |
| Color Performance | YCbCr 4:2:0 8-bit |
| Power Supply | DC 12V 1A |
| Power Consumption | 9W |
| Dimension (mm) | 140*100*28mm |
| Weight | 300g |
| Management | WebRTC/KiloLink Server |
| Video Encoding Bitrate Range | Supports adjustment between 512K ~ 40M, the bitrate can be customized |
| Audio Encoding Bitrate Range | Supports adjustment between 16 Kbps to 512 Kbps, with a default setting of 64 Kbps |
| Operating Temperature | -20°C~45°C |

07 H.265/H.264 DECODERS MULTI-CH VIDEO DECODERS

Kiloview's H.265/H.264 decoders deliver powerful performance and extensive functionality, supporting resolutions up to 4Kp60. It can decode multiple network video streams (including NDI High Bandwidth, NDI HX, NDI HX3, SRT, RTMP, RTMPS, UDP, RTP, RTSP, etc.) and output them synchronously via 3G-SDI and HDMI interfaces. Additionally, it supports the simultaneous decoding of multiple streams, making it an ideal solution for complex video workflows.

- D350 12-CH 4K Decoder (Supports NDI High Bandwidth)
- D260 4-CH HD Decoder (Supports NDI HX)



DECODING CHAMPION FOR UHD IMAGE QUALITY

D350 4K Decoder

Full protocols support

4K HDMI*2+3G-SDI

16CH preview (Web, IP-based Multiview)

Customizable Multi-screen Layout



Seamless Decoding, Addressing Each Detail

The D350 4K Ultra HD Decoder is an all-in-one video processing device that supports decoding various network video stream formats, including NDI HB, NDI HX/HX3, SRT, RTMP, UDP, RTP, and RTSP, with stable audio and video synchronization via 3G-SDI and HDMI. It can decode up to 12 simultaneous 1080P60 video streams and features hardware-based Multiview monitoring for real-time preview switching.

The D350 also offers customizable layouts, dynamic switching, and background/LOGO overlays, along with VU meter monitoring and reverse PTZ control. Its LCD screen displays the IP address and output status, providing easy monitoring for users.



100% customizable layouts



12-CH 1080P60 decoding
Unlimited preview (based on hardware performance)



Low latency



Full protocol support for NDI High Bandwidth, NDI HX/HX3, SRT, RTMP, etc.



Simultaneous output with multiple interfaces
(display the same or different content)*



Embedded audio output in SDI & HDMI, or
independent 3.5mm analog audio output



Customizable 1/2/3/4/5/6/7/8/9 to 16 Layout
(position, size, dimensions, etc.)



Support for background/image overlay output



OLED display with touch buttons



PoE/PTZ/KIS intercom



Dual-USB ports for headset, storage and PTZ



Dual 1G Ethernet ports with PoE for safety backup



Web Interface and KiloLink Server centralized
management

*Only 2 channels of different content can be output across all 3 interfaces.

EASY AND EFFICIENT DECODING

D260 HD Decoder

Multi-protocol support

4-CH simultaneous decoding

Customizable multi-screen layouts

The **D260** is a cost-efficient video decoder with multi-interface output. It features 3G-SDI + 2*HDMI and can decode up to 4 audio and video streams simultaneously, while being compatible with decoding formats such as H.265/H.264. The D260 supports multimedia protocols like NDI HX, NDI HX3, SRT, RTMP, RTMPS, HLS, and TS over UDP/RTP/RTSP, making it suitable for multi-service decoding and wall display splitting.

With meticulously designed UI, it offers features like custom layouts, dynamic switching, and background/LOGO overlay. Additionally, the D260 supports VU meter monitoring and reverse PTZ control, further enhancing the device's practicality and flexibility. The device panel is equipped with an intuitive LCD screen that displays real-time IP addresses and output status, allowing users to monitor the device's status in real time.



Unlimited real-time preview (based on hardware performance) & 4-CH 1080P60 output



Audio embedded: SDI, HDMI outputs, or 3.5mm audio output



Supports RTMP Server to directly transmit streams to decoder for output



Dual 1G Ethernet ports for indefinite network connection



Supports graphic overlay output
(simultaneous addition of multiple video sources for switching output)



Supports PoE/PTZ/KIS intercom



Dual-USB expandable ports for PTZ, headset and storage

NDI

SRT

H.265



H.265/H.264 Decoder Tech Specs

| Model | D350 | D260 |
|-----------------------|--|---|
| Video Decoding Format | H.265/H.264 | H.265/H.264 |
| Decoding capability | H.264/H.265: 12-CH 1080P60, 3-CH 4K30P, 2-CH 4KP60 Speed HQ: 4-CH 1080P60, 1-CH of 4K30P | H.264/H.265: 4-CH 1080P60, 3-CH 4K30P, 2-CH 4KP60 Speed HQ: 4-CH 1080P60, 1-CH of 4K30P |
| Network | 2×10M/100M/1000MRJ45 adaptive Ethernet ports with PoE | 2×10M/100M/1000MRJ45 adaptive Ethernet ports |
| Video Output | 2*HDMI 1*3G-SDI | 2*HDMI 1*3G-SDI |
| Audio Output | SDI/HDMI embedding or 3.5mm Line out | SDI/HDMI embedding or 3.5mm Line out |
| Internet Protocols | NDI High Bandwidth/NDI HX/NDI HX3/SRT/ RTMP/RTMPS/UDP/RTP/RTSP/HTTP/HTTPS | NDI HX/NDI HX3/SRT/RTMP/RTMPS/UDP/ RTP/RTSP/HTTP/HTTPS |
| Audio Decoding Format | AAC/G.711 | AAC/G.711 |
| USB Port | 1*USB 2.0 TYPE-A 1*USB 3.0 TYPE-C | 1*USB 2.0 TYPE-A 1*USB 3.0 TYPE-C |
| Decoding Latency | Around 150ms | Around 150ms |
| Buttons | Left&Right | Left&Right |
| Display | 0.96" LCD | 0.96" LCD |
| Management | Web / KiloLink Server | Web / KiloLink Server |
| Working Temperature | -20°C ~ 60°C | -20°C ~ 60°C |
| Power | DC 12V 1A | DC 12V 1A |
| Weight | 360g | 360g |
| Dimension (mm) | 140*104*25mm | 140*104*25mm |

08 FULL-FUNCTIONAL IP BRIDGE FOR INTERCHANGING

MG300 v2 Media Gateway

The MG300 v2 multifunctional video gateway integrates core functions: streaming protocol conversion, streaming distribution services, multi-channel video decoding, and multi-screen video splitting. It seamlessly interfaces with resources of different systems/manufacturers/encoding formats, enabling unified video format conversion, multi-protocol interoperability, efficient decoding & output capabilities, and multi-screen splitting display functions.

Additionally, the MG300 v2 boasts powerful concurrent processing performance, supporting up to 50 simultaneous accesses. As a streaming media server, it effectively meets the demands for large-scale video content transmission, integration, and presentation.





Multiple streaming media conversion



50 NDI HX/RTSP protocol streams concurrent handling



36 channels RTMP/SRT/UDP streaming



Multi-screen merging for live streaming



Decoding of 4K IP streams with multiple outputs including 3G-SDI & dual 4K HDMI



Preview of 16 video sources and 9 decoding outputs (PVW/PGM)



Customizable multi-screen layout. Output display can be single-screen or picture-in-picture mode



Dual Ethernet port design for receiving external network video & transmitting to internal network

MG300 v2 Tech Specs

| Model | MG300 v2 |
|-----------------------------------|---|
| Network | 2*100M/1000M RJ45 adaptive Ethernets |
| Decoding Output | 1*SD/HD/3G-SDI, up to 1080P60, 1*HDMI, up to 4KP60 |
| Audio Port | 1*3.5mm Line out |
| USB | Dual USB ports, 1*USB Type-A, 1*USB Type-C, for storage and intercom, etc. |
| Input Protocols | NDI HX/SRT/RTSP/RTMP/UDP/HLS |
| Output Protocols | SRT/NDI HX/RTSP/RTMP TS-UDP |
| Protocol Conversion Capability | 9-CH 1080P video conversion |
| Streaming Distribution Capability | 50 channels of NDI HX/RTSP, 36 channels of RTMP/SRT (Not more than 600Mbps) |
| Channels of Decoding | 16-CH 1080P30, 9-CH 1080P60, 4-CH 4KP30, or 2-CH 4KP60 |
| Video Decoding Format | H.264/H.265 |
| Audio Decoding | AAC-LC / G.711 (aLaw / uLaw) AAC: 8Kbps ~ 320Kbps G.711: 64Kbps |
| Decoding Latency | ≤200ms |
| Split Display Style | Support 1-9 splitting, and re-encoding and streaming of the multiview video streams (up to 1080P60 in H.264 encoding) |
| Management | Web/KiloLink Server |
| Working Temperature | -25°C ~ 60°C |
| Power Consumption | 7W |
| Power | 12V 1A |
| Dimension | 162.85*104*25.00mm |
| Weight | 340g |

* Note: The actual number of concurrent connections depends on the specific network bandwidth, video format and other factors, and the device transmission limit does not exceed 600Mbps.

CRADLE SERIES RF02

Unify Your Workflow, Amplify Your Potential

Integrated Network Switch

Centralized Management with KiloLink Server Pro

High Density Modular Design

18 Multi-Conversion Cards Supported



Your Ultimate Unified Media Center

The **Cradle Series RF02**, an advanced rack framework, is designed to transform your AV-over-IP workflows by combining unparalleled flexibility, power, and space efficiency within a 2RU structure. Tailored for high-density multi-service environments, the RF-02 delivers a seamless integration experience that enhances your media operations with robust performance, centralized management, and comprehensive modularity.



Built-in High Bandwidth Switch



Centralized Management with KiloLink Server Pro



Modular Design for Flexibility



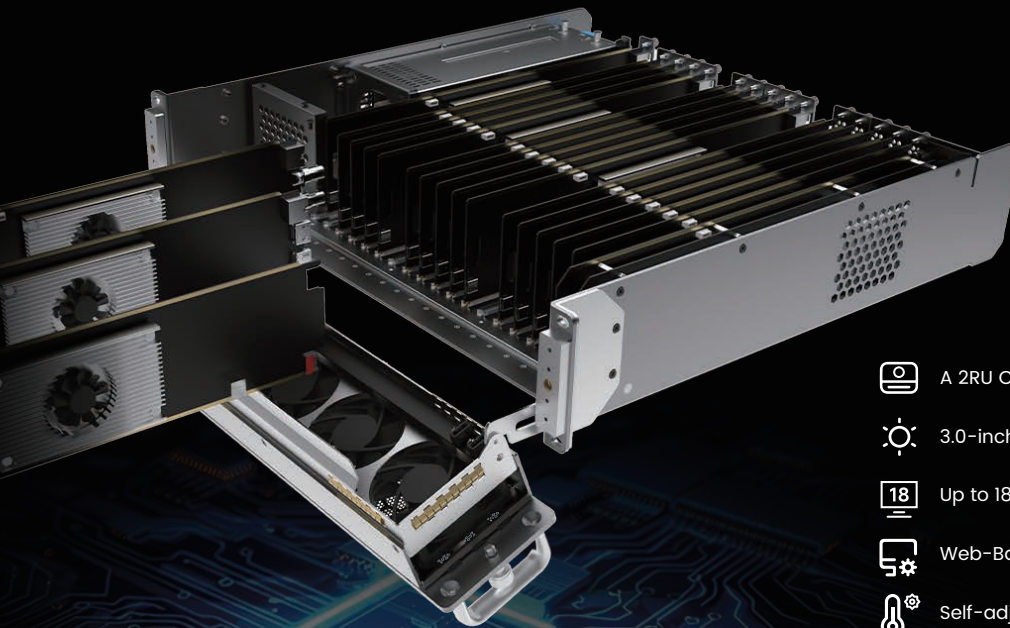
Extensive API Support



High Density with Space-saving Design



Seamless Integration across Workflows



A 2RU Compact Size



3.0-inch Color LCD Panel



Up to 18 Service Card Support



Web-Based Remote Management



Self-adjust heat dissipation/Auto-temp Control



Dual-redundant, Hot-swappable Power Supplies



3*10Gbps SFP+ Optical Ports, 1*10Gbps RJ45 Ethernet Port

OPTIONAL SERVICE CARDS

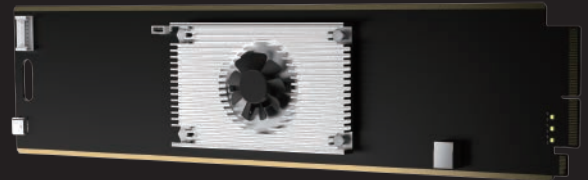


Encoding & Decoding Cards FN-50/FN-60

RF02's integrated service cards (FN-50/ FN-60) support H.264/ H.265/NDI SpeedHQ CODEC, delivering UHD4KP60 with YCbCr 4:2:2/10-bit color format, enabling all-in-one encoding and decoding ability.

Media Gateway Card FMG-400

FMG-400 supports seamless transcoding and streaming, handling H.264, H.265, SpeedHQ, and protocols like NDI HB, NDI HX, SRT, RTMP, RTSP, RTP, UDP, WebRTC, and HLS. With up to 1*4KP60 or 4* 1080P60 transcoding, it ensures flexible media adaptability for various workflows.

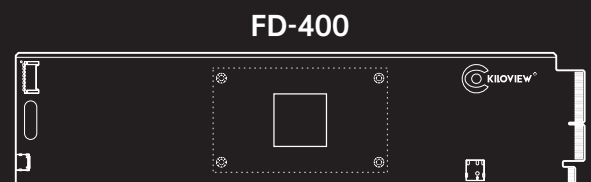


NDI Multiview Card FMV-400

NDI Multiview Card (FMV-400) supports up to 16-channel NDI HX, NDI HX3, NDI High Bandwidth video preview, and is compatible with NDI 6 HDR. Equipped with two HDMI 2.0b 4K output interfaces for Multiview.

Multi-Service Card FD-400

Based on Kiloview's D350/RD350, FD-400 upgrade supports multi-protocol decoding (SRT/RTMP/HLS/TS/RTP/RTSP) for up to 12*1080P60 or 4*4KP60 streams, along with NDI HX, NDI HX3, and NDI High Bandwidth. It offers customizable Multiview display for up to 16 channels, with 2x HDMI 2.0b and 1x 3G-SDI output.



Cradle Series RF02 Tech Specs

| Main Controller Module | | Overall Chassis | |
|----------------------------|--|--|---|
| Processor | 8-core ARM64 high-performance processor (Cortex A73@1.8GHz) | Service Cards | 18*(MAX)/Front and rear through-slot design with rail guide and 20-pin gold finger connector |
| Memory | 12GB DDR4 | Max Power Per Slot | 25W/slot |
| Storage | 128GB EMMC | Service Support | Supports encoding/decoding/I/O integrated/media gateway cards |
| Operating System /Software | Linux 5.10/KiloLink Server RF version | Dimension | Size: 483mm*487mm*88mm (standard 2RU) |
| Management and Control | Web/HTTP API | Working Temperature | -10℃ to 45℃ |
| Network Switch Module | | Storage Temperature | -20℃ to 70℃ |
| Service Card Connection | 18*1Gbps/2.5Gbps Adaptive Ethernet (Copper)Note: Slot17/18 can support up to 10Gbps while others support 1Gbps/2.5Gbps | Relative Humidity | 5% to 90% |
| Control Module Connection | 2*5Gbps (Copper) | Heat Dissipation | Self-Adjust heat dissipation /Auto-temp control |
| External Connection | 3*10Gbps SFP+ Optical Ports (IEEE 802.3ae) 1*10Gbps RJ45 Ethernet port | Power Supply | 2*AC100-240V/7A (Max), 60/50Hz, 500W Max(Optional) |
| Type | Three-layer management switch/VLAN support (802.1Q/QinQ) | Power Consumption | No load : 37W Full Load: 480W |
| Switching Capacity | 240Gbps | Compatible Service Cards | 18*(Max) Encoding, 18*(Max) Decoding 18*(Max) NDI I/O Conversion 18*(Max) 4K Media Conversion Gateway 18*(Max) 4K Wireless Decoding Gateway (HDMI/SDI Baseband Output) Above can be freely combined |
| Management and Control | Web (KiloLink Server RF management based on the main controller) | | |
| Display/Interact/Indicate | | | |
| Display | | 3-inch LCD color display (non-touch) | |
| Buttons | | 4 (Power/Flip left/Flip right/Select) | |
| Indicator light | | Status indicator/Alarm indicator/Power indicator | |
| Buzzer | | Press/Alarm | |

INDUSTRY BUYER'S CHOICE

RU03/RU01 Rackmount Chassis

Flexible I/O card combination

Redundant power supplies

High Density

Reliable, affordable and professional

The **RU03/RU01** Chassis support the insertion of 4-channel (RU01), 16-channel (RU03) encoding and decoding modules within a single rack-mounted framework, enabling remote video transmission, broadcasting, and interaction over wired networks.

The devices are designed with a dual power supply and centralized heat dissipation for 24/7 operation.



RU03 Chassis
Up to 16 channels of
HDMI/SDI encoding & decoding modules





RU01 Chassis
Up to 4 channels of
HDMI/SDI encoding & decoding modules




 Flexible I/O card combination

NDI Support NDI, H.265/H.264 I/O & media gateway cards

 7*24h continuous operation

 Powerful cooling fans

 Power indicator

Chassis Tech Specs

| Model | RU03 | RU01 |
|----------------|---|---|
| Infrastructure | 3U | 1U |
| Capacity | 16 channels | 4 channels |
| Tally | Support | Support |
| Cooling Fan | 6 | 2 |
| Power Supply | Redundant 110W | Redundant 35W |
| I/O Card | RN-3, RN-40 RE-3, RMG-300 v2 RD-350, RD-260 | RN-3, RN-40 RE-3, RMG-300 v2 RD-350, RD-260 |
| Dimension | 482*202*132.50mm | 485*191*45mm |
| Weight (g) | 3800g | 1900g |

FLEXIBLE COMPATIBILITY FOR VARIOUS APPLICATIONS

Kiloview Encoding & Decoding Card Series

NDI encoding & decoding cards

H.265/H.264 encoding card

H.265/H.264 decoding card

Media gateway card





NDI encoding & decoding cards

RN-3/RN-40

- ⊙ NDI High Bandwidth support
- ⊙ Supports 3.5mm audio input
- ⊙ 4K HDMI/3G-SDI
- ⊙ Integrated encoding & decoding
- ⊙ YCbCr 4:2:2 colour performance
- ⊙ PoE/PTZ/Tally/KIS intercom



H.265/H.264 encoding card

RE-3

- ⊙ Supports KIS voice calls
- ⊙ 4K HDMI & 3G-SDI dual-interface I/O
- ⊙ H.265/H.264 encoding format
- ⊙ Vertical screen/multi-platform live streaming
- ⊙ Supports 3.5mm audio input
- ⊙ Text & image overlay, video cropping, NAS storage
- ⊙ NDI HX/SRT/RTMP full protocols



H.265/H.264 decoding card

RD350 12-CH decoding output RD260 4-CH decoding output

- ⊙ 3G-SD/HDMI2.0*2 outputs
- ⊙ NDI HX, NDI HX3, RTMP, SRT, etc (RD350 Support NDI High Bandwidth)
- ⊙ PVW/PGM, seamless output
- ⊙ Supports LOGO/border/text and image overlay
- ⊙ Customizable layouts/split-screen display



MG300v2 media gateway card

- ⊙ H.265/H.264 codec
- ⊙ Up to distribution with 50CH of RTSP/NDI HX streams
- ⊙ Multi-IP protocols conversion
- ⊙ Decodes 4K IP streams with 3G-SDI & dual 4K HDMI
- ⊙ Up to 36CH of RTMP/SRT /UDP streams for live streaming
- ⊙ 9-CH video source preview
- ⊙ 16-CH 1080P30 decoding output (PVW/PGM)

NDI Encoding & Decoding Cards



RN-3
3G-SDI I/O



RN-40
4KP60 HDMI I/O

NDI I/O Cards Tech Specs

| Model | RN-3 | RN-40 |
|---------------------|---------------------|--------------------|
| Input | 1*BNC 3G-SDI | 1*HDMI |
| Output | 1*BNC 3G-SDI | 1*HDMI |
| Analog Audio Port | 1*3.5mm Line in/out | |
| Video Codec | NDI High Bandwidth | |
| Resolution | Up to 1080P60 | Up to 4KP60 |
| Streaming Protocols | NDI High Bandwidth | NDI High Bandwidth |
| NDI Formats | NDI High Bandwidth | NDI High Bandwidth |
| Intercom | Support | Support |
| PTZ Control | Support | Support |
| Applicable Frame | RU01, RU03 | |
| Management Portal | Web/KiloLink Server | |

H.265/H.264 Encoding Card



RE-3

Dual interface I/O with 4K HDMI & 3G-SDI

Simultaneous or mixed encoding of two channels

H.265/H.264 Encoding Card Tech Specs

| Model | RE-3 |
|------------------------------|---|
| Video Interface | 1*3G-SDI 1*HDMI 1.4a |
| Video Loop Out | / |
| Chassis Support | RU01, RU03 |
| Analog Audio Interface | 1*3.5mm Line in |
| NDI Performance | NDI HX / NDI HX3 |
| Video Encoding | H.265(HEVC)/H.264(AVC) |
| Audio Encoding | AAC/G.711 |
| Network Interface | 1*10/100M/1000M RJ45 adaptive ethernet |
| USB Interface | 1*USB 2.0 Type-C 1*USB 2.0 Type-A |
| Video Resolution | HDMI: up to 4K@30 3G-SDI: up to 1080P60 |
| Media Protocol | NDI HX/NDI HX3/SRT/RTMP/RTMPS/HLS/TS over UDP/RTP/RTSP |
| Recording Storage | USB extended hard drive recording or NAS network storage |
| Encoding Performance | Dual channel simultaneous encoding, single encoding or mixed encoding output IP stream (resolution 1080P60 and below) |
| Management Tytle | Web/KiloLink Server |
| Video Encoding Bitrate Range | Supports range between 512K ~ 40M (adjustable) |
| Operating Temperature | -20°C~55°C |

H.265/H.264 Decoding Card



RD-260

4 channels HD decoding card



RD-350

9 channels HD decoding card

H.265/H.264 Decoding Card Tech Specs

| Model | RD-260 | RD-350 |
|----------------------------|---|---|
| Network | 2*100M/1000M RJ-45 | 2*100M/1000M RJ-45 |
| Video Output | 3G-SDI+HDMI output, with different Content | 3G-SDI+HDMI output, with different Content |
| Video Decoding Algorithm | H.265/H.264 | H.265/H.264 |
| Decoding Capacity | Up to 4 Channels Decoding (4-CH 1080P60, 3-CH 4KP30, 2-CH 4KP60) | Up to 12 channels decoding (12-CH 1080P60, 3-CH 4KP30 and 2-CH 4KP60) |
| Multi-screen output layout | Customizable 1/2/3/4 screen layout The screen size can be customized | Customizable 1/2/3/4/5/6 ~16 screen layout The screen size can be customized |
| Internet Protocols | NDI HX/NDI HX3/SRT/RTMP /RTMPS/UDP/RTP/RTSP/HTTP/HTTPS | NDI High Bandwidth/NDI HX/NDI HX3/SRT /RTMP/RTMPS/UDP/RTP/RTSP/HTTP/HTTPS |
| Audio Output | SDI/HDMI Embedded, or 3.5mm Analog Output | |
| USB | 1*USB Type-C | |
| Audio Decoding | AAC/MPEG-4/MPEG2/G.711/Opus/LPCM | |
| Display | 0.96" LCD display with touch buttons | |
| Voice intercom | Support | |
| Video Preview | Support | |
| Image/Text Overlay | Support | |
| Management Portal | Web UI and remote management with KILOVIEW KiloLink Server | |

RMG-300 v2 Midea Gateway Card



RMG-300 v2
Midea Gateway Card



- H.265/H.264 codec
- Multi-IP conversion
- Up to 36-CH of RTMP/SRT/UDP streaming
- Concurrent support for up to 50-CH of NDI HX/RTSP protocols
- Decodes 4K IP streams with multiple outputs including 3G-SDI& dual 4K HDMI
- 9-channel video source preview, 16-channel decoding 1080P30 output

RMG-300 v2 Tech Specs

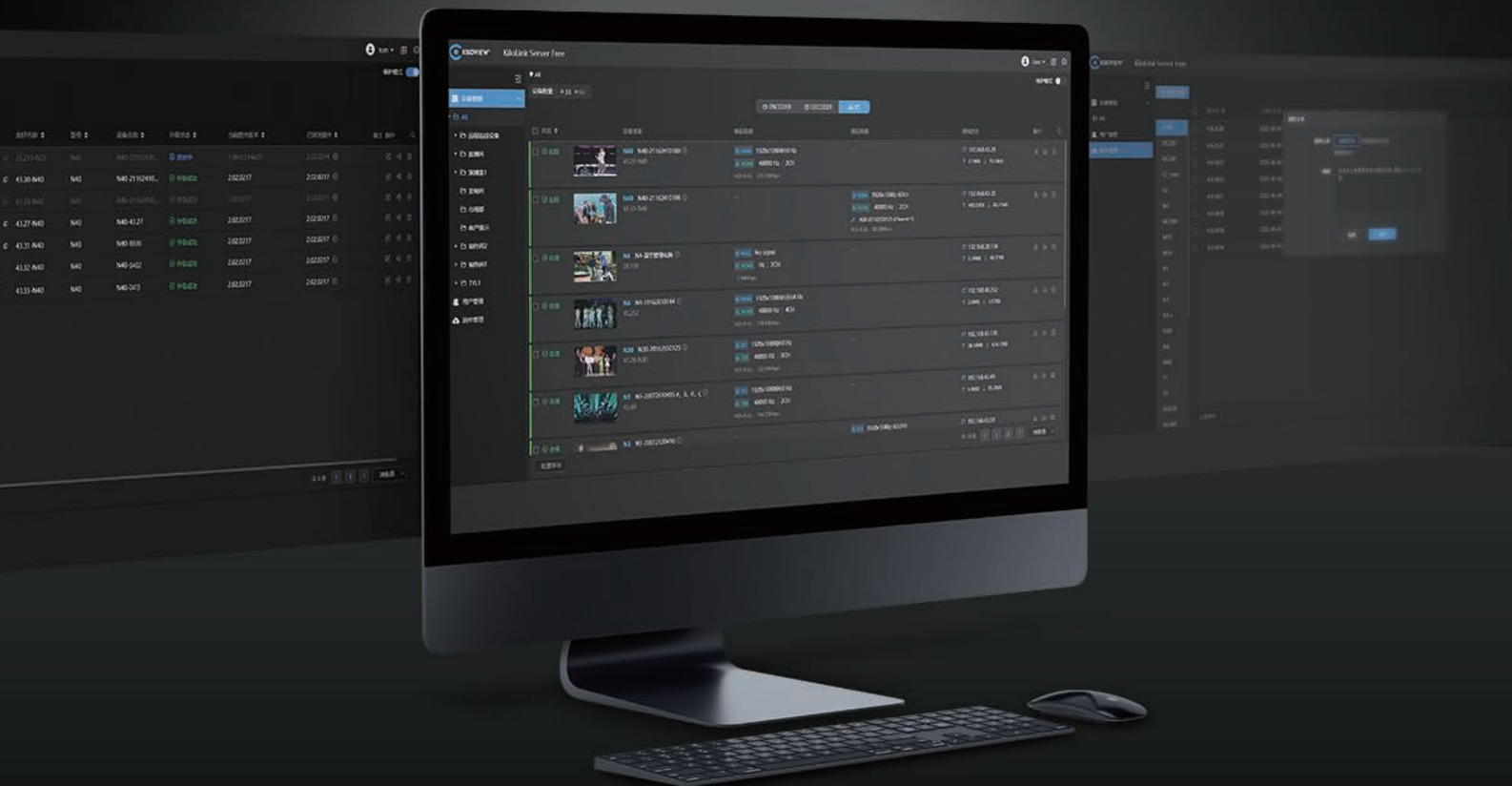
| | |
|-----------------------------------|---|
| Model | RMG-300 v2 |
| Network | 2*100M/1000M RJ45 adaptive Ethernets |
| Decoding Output | 1*SD/HD/3G-SDI, up to 1080P 60Hz, 1*HDMI, up to 3840*2160@60Hz |
| USB Port | 1*USB Type-A, 1*USB Type-C |
| Internet Protocols | NDI HX/SRT/RTSP/UDP/RTMP/HLS |
| Output Protocols | SRT/NDI HX/RTSP/RTMP/TS-UDP |
| Protocol Conversion Capability | 9-CH 1080P video conversion |
| Streaming Distribution Capability | 50 channels of NDI HX/RTSP, 36 channels of RTMP/SRT (Not more than 600Mbps) |
| Live Streaming Capability | (4 channels or 9 channels)*4 channels 1080P |
| Channels of Decoding | 16-CH 1080P30, 9-CH 1080P60, 4-CH 4KP30, or 2-CH 4KP60 |
| Video Decoding Format | H.264/H.265 |
| SDI Output Formats | 1080P60/59.94/50,1080P30/29.97/25/24/23.98 1080i60/59.94/50 720P60/59.94/50 570i/50 480i/60 |
| HDMI Output Formats | 4K 3840x2160@60/30, 1080P60/50, 1080P24/25/30, 1080P60/50, 720p60/50 Compatible with VESA standard format |
| Video Bitrate | 128Kbps ~ 40Mbps |
| Audio Decoding Format | AAC-LC / G.711 (aLaw / uLaw) |
| Audio Bitrate | AAC: 8Kbps ~ 320Kbps G.711: 64Kbps |
| Decoding Latency | ≤200ms |
| Split Display Style | Support 1-9 splitting, and re-encoding and streaming of the multiview video streams (up to 1080P60 in H.264 encoding) |
| Management | Web |
| Remote Control | Support |
| Remote Firmware Update | Support |
| Working Temperature | -25 ~ 60°C |
| Relative Humidity | 20 ~ 90%RH(No condensation) |
| Power Consumption | ≤6W |
| Power Supply | 12V 1A |

10 CENTRALIZED DEVICE MANAGEMENT & VOICE INTERCOM SYSTEMS

The **KiloLink Server Pro** is the software system designed for centralized management & control of Kiloview products, including hardware devices and software systems. It enables centralized online management, status monitoring, remote configuration, centralized control, firmware management & upgrades.

The **KIS Pro** is a multi-party voice calling system offering low-cost, multi-terminal, cross-internet, and full-IP voice intercom solutions.

- KiloLink Server Pro - A Centralized Management Platform
- KIS Pro Intercom Server



ONE-STOP BONDING & MANAGEMENT PLATFORM

KiloLink Server Pro

KiloLink Bonding Transmission

Web Interface Operation

Flexible Deployment

Remote Firmware Upgrade

Centralized Management

The **KiloLink Server Pro** is the centralized management platform based on KiloLink technology, enabling centralized online management, status monitoring, remote configuration, centralized control, firmware management & upgrades for all KiloView products, including hardware devices. Users can accomplish these tasks precisely through a Web interface (Linux).

Additionally, the KiloLink Server Pro supports multi-link bonding transmission, allowing the bonding of 5G/4G, Wi-Fi modules, and Ethernet connections. It works as a small to medium-sized streaming media server, supporting tens to hundreds of concurrent connections, effectively alleviating bandwidth pressure. It also supports various protocol conversions and outputs, including NDI, HX, SRT, RTMP, TS-UDP, HLS, and RTSP.


FREE

Centralized control for KiloView Products

Unlimited remote management of devices

*Note: The final number of supported devices depends on the CPU/memory /network performance of the server

Stable multi-link bonding transmission

Based on KiloLink, it supports the bonding transmission of multiple 5G/4G modems, Wi-Fi modules, and Ethernet

Multi-protocol conversion and media transcoding

Supports hundreds of concurrent connections from the streaming server, effectively distributes broadband pressure (depending on hardware & bandwidth capacity)

Group permission management

Create user groups, assign device permissions, and manage them precisely

Great dashboard

Easily check CPU/memory usage, network status, online/offline device

Ultra-low resource consumption

Low resource consumption of CPU/memory, low hardware performance requirements, suitable for deployment on regular VPS



- Batch firmware uploads
- Start & stop media streaming
- Control device start/stop/PTZ
- Web login anytime, no extra software needed
- View device status, preview videos (or thumbnails) and configure device parameters

KiloLink Server Pro Tech Specs

| Product | KiloLink Server Pro |
|--------------------------|--|
| Max Number of Management | Unlimited |
| Streaming Services | NDI HX/ SRT/ RTMP/ RTSP/RTP/ HLS/ TS-UDP |
| Management Type | Support user management, group management, organizational structure permission settings/firmware upgrades, etc |
| Operating System | Linux/Windows |
| Maintenance Mode | Add or delete devices, one click reset, restart, batch firmware upgrade |
| Browser Login | Chrome/Edge/Safari |
| Operating Environment | Docker |
| Authorization and Use | Free |

KiloLink Server Pro Hardware Performance Recommendations

| Items | Recommendations |
|-----------|---|
| CPU | X86 64bit CPU, 4 cores or higher, with a main frequency not less than 2.0GHz |
| ROM | Over 32GB |
| RAM | 16GB RAM or higher |
| Bandwidth | Conventional device management and control, with a bandwidth of no less than 256Kbps per device (or software system) as the measurement basis, multiplied by the total number of managed devices as a bandwidth configuration reference |

PATENTED MULTI-LINK BONDING UNLOCK YOUR AVOIP POTENTIAL

KiloLink Technology

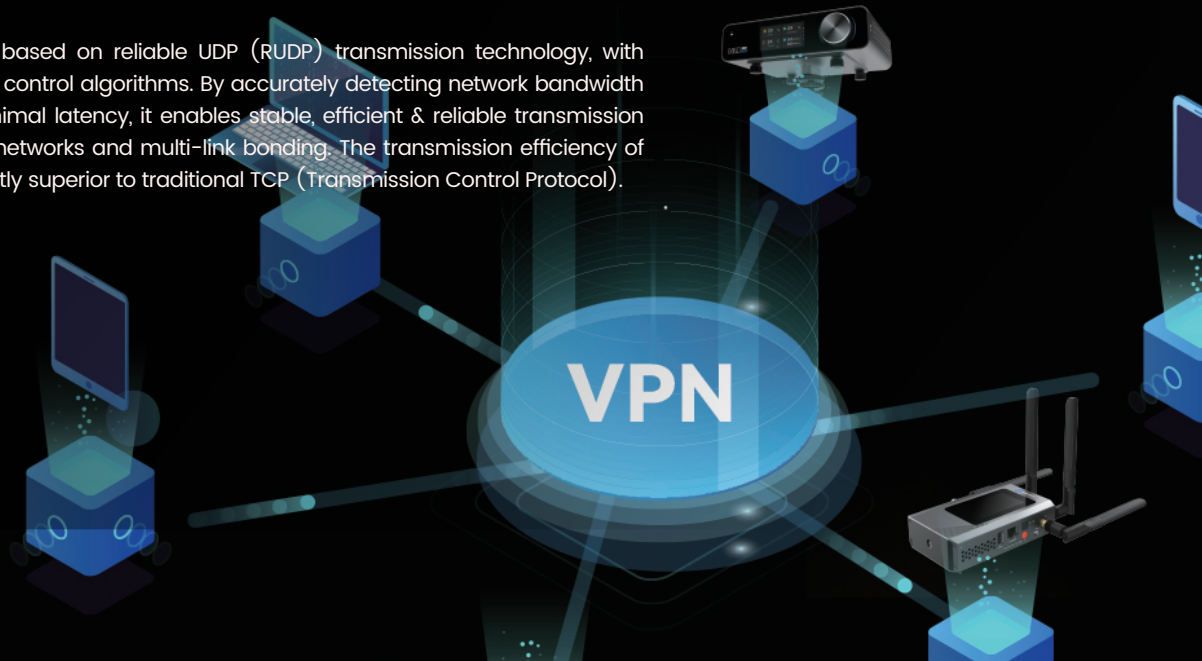
Bandwidth optimization

Stable, reliable and free

Easy to deploy

The **KiloLink** is a proprietary technology pioneered by Kiloview. Its core purpose is to utilize all possible network links and establish media transmission channels between Kiloview devices.

The technology is based on reliable UDP (RUDP) transmission technology, with precise congestion control algorithms. By accurately detecting network bandwidth and predicting minimal latency, it enables stable, efficient & reliable transmission over conventional networks and multi-link bonding. The transmission efficiency of KiloLink is significantly superior to traditional TCP (Transmission Control Protocol).



Easy deployment with efficient connectivity

Kiloview provides bonding software for free, allowing users to deploy servers either locally or in the cloud.

Multi-link bonding for network acceleration

Maximize 4G performance and redundancy by utilizing multiple network links in marginal situations.

Balanced stability & bandwidth guarantee

When a link has bandwidth fluctuations, KiloLink will balance bandwidth load within 100ms for more stable connection.

Secure encryption technology

Adopt TLS 1.3 encryption transmission to maximize the data security.

VPN based

Support VPN (Virtual Private Network), enabling secure internal network access.

Free for use

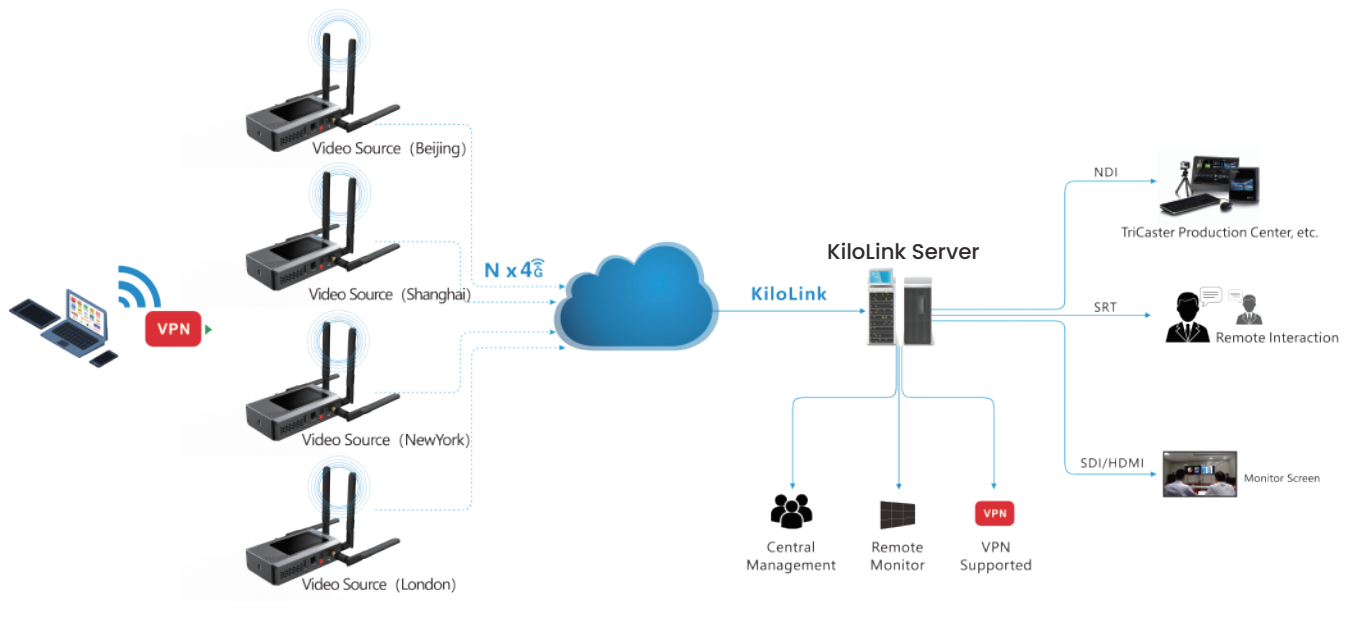
Applicable to all Kiloview devices for inter-connectivity.

Applications

Reliable outdoor wireless bonding point-to-point transmission can be achieved by using P series and directly connecting to Kiloview MG300 v2 (Media Gateway).



Device management and streaming media forwarding can be achieved by using the P series to connect to KiloLink Server through 5G/4G bonding.



EASIER DIGITAL COMMUNICATION

Kiloview Intercom Server

Complete IP-based infrastructure

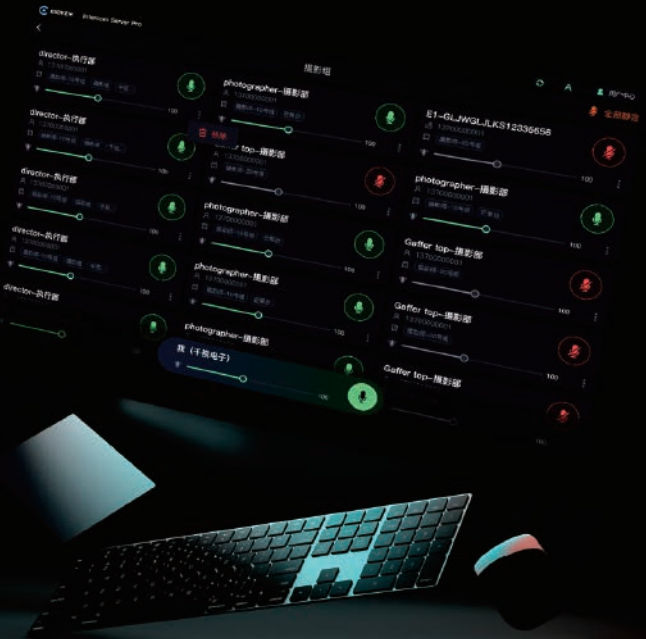
Multi-party calls with unlimited participants

Voice calls across Internet

Multi-terminal login with unlimited devices

The **KIS Pro** is a simple & convenient multi-party voice intercom platform. It supports various login methods (encoders/decoders, intercom panels, mobile devices, tablets, and web browsers), enabling users to achieve an efficient & seamless calling experience.

The **KIS Pro** facilitates multi-party voice calls across the internet, allowing participation from any location. Compared to its predecessor, KIS Pro features a clearer user interface, more flexible multi-party call capacity, more efficient channel management, and more accurate member search functionality. It is a software solution designed to effectively address your multi-party voice calling needs.



FREE

Cost-saving, IP-based infrastructure

Based on the WebRTC real-time transmission, the server supports cloud/local deployment

Real-time communication across the Internet

Join via Ethernet, WiFi, 4G/5G networks, supporting LAN/cross-Internet connections
Easy communication anytime, anywhere

Supports multi-party voice calls with unlimited participants

Supports any number of voice calls
Administrators can one-click mute or unmute members in channels

Supports multi-terminal access to calls

Supports access from various devices including encoders/decoders, computers, mobile phones, tablets

Efficient channel management

Multiple channel groups for member status viewing and searching, one-click quick channel switching for one-on-one calls

Ultra-low latency, clear and secure conversations

Utilizes IP network intercom communication system and digital audio processing technology to achieve super low latency



KIS Pro Tech Specs

| Product | KIS Pro |
|-----------------------------|---|
| Max CH of Terminals | No Limit |
| Max Sampling Rate | 8KHz |
| Channel Mode | Mono |
| Encoding Format | G.711 |
| Voice Calling Function | Support |
| One-Click On/Off of the Mic | Support |
| Kick-Out Function | Support |
| Multi-Language Switching | Support |
| User Management | Support |
| Tag Management | Support |
| Device Management | Support |
| API | Support |
| Version Switch | Support |
| Intercom Devices | LinkDeck/Kiloview Encoder&Decoder/PC/Tablet |
| Language | Simplified Chinese/English |
| Management | Web |
| OS | Linux OS |
| Service Charge | Free |

MULTI-FUNCTIONAL SIGNAL CONVERSION

CV190/CV180/C1 Mini HD SDI Converter

The **SDI multifunction converter series** (models: CV190/CV180/C1 Mini) supports bidirectional conversion between SDI and SDI/HDMI/VGA/CVBS, with support for 1 input and 2 output modes.

With high-quality 10-bit YUV 4:2:2 conversion, it also has editing management functions such as frame rate/resolution conversion, color adjustment, and image zoom in/out.



Compatible with multiple interfaces



10-bit YUV 4:2:2, color fidelity



Color adjustment, 3D noise reduction



Progressive/interlace video conversion, video zoom in/out, frame rate conversion



Supports 1 input & 2 output modes



- High performance chip for 24/7 stable operation
- Signal loss blue screen warning
- Manage via USB connection to PC
- HDMI audio separation or analog audio input (CV190)
- Independent analog audio output (CV180)

CV190/CV180/C1 Mini HD SDI Converter Tech Specs

| Model | CV190 | CV180 | C1 Mini |
|---------------------|-------------------|--|-----------------|
| Input | HDMI/VGA/AV(CVBS) | 3G-SDI | 3G-SDI |
| Output | 2*3G-SDI | 1*SDI, 1*HDMI, 1*BNC AV(CVBS), 1*VGA (Either two signals output simultaneously) | 1*HDMI 1.4 |
| Loop | / | 1*3G-SDI | / |
| Audio I/O | Audio embedding | Audio demux | / |
| Highest Resolution | 1080P60 | 1080P60 | 1080P60 |
| Up/Down Conversion | Support | Support | Support |
| Power Consumption | 5W | 4w | 2w |
| Weight | 315g | 315g | 120g |
| Working Temperature | -20℃~60℃ | -20℃~60℃ | -20℃~60℃ |
| Dimension (mm) | 142.2*104*25mm | 142.2*104*25mm | 112.7*45.5*22mm |

For more information,
please visit www.kiloview.com/en/.



Please scan with browser.

Kiloview Electronics CO., LTD.

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Images are for reference only. Please refer to the actual product for appearance & functionality.