



# INDUSTRY SOLUTIONS AND WORKFLOWS

Leading IP-based Video Transmission Solution Expert





**IP-based**

**Lightweight**

**Flexible**

**Cost-effective**

Founded in 2011, Kiloview is a professional solution provider of IP-Based video transmission, with products across the range of video encoding, decoding, conversion, IP-based video switching and streaming, including SDI/HDMI (HD or 4K UHD) to IP via H.264/H.265/NDI by Ethernet, wifi or 4G-LTE bonding/5G-LTE, etc.

Kiloview provides hardware and software solutions which can handle different inputs and outputs, either baseband interfaces or IP streams with different protocols, in the format of standalone units, or rackmount units, together with functions such as PTZ control, OSD, cropping, recording, streaming services, making Kiloview the most versatile AV-over-IP solution provider in the world.

 <https://www.kiloview.com/en/>

 @kiloview

 @kiloviewelectronics

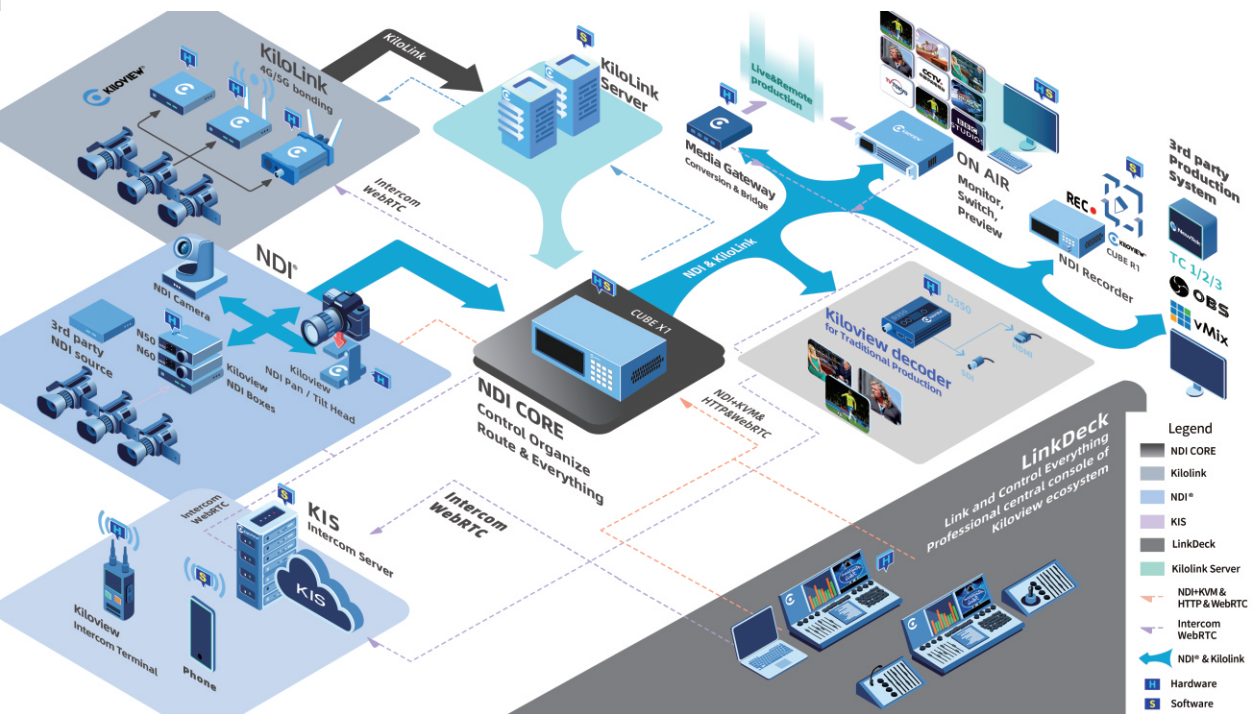
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# Kiloview Ecosystem

## Complete IP-based Ecosystem



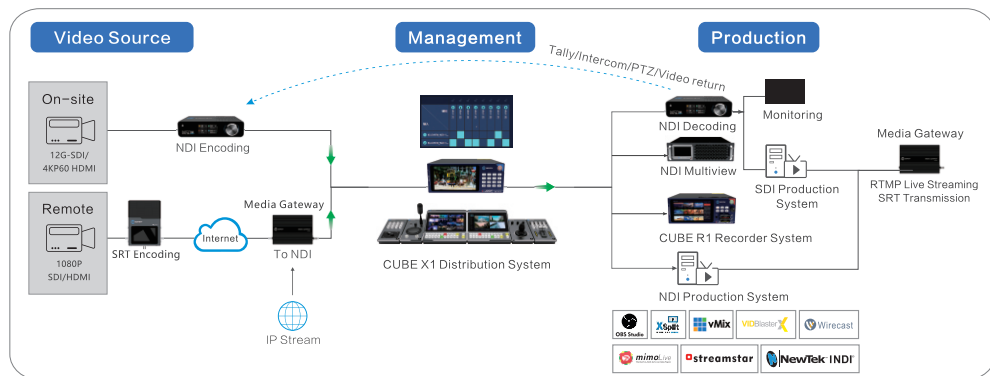
Kiloview provides a complete IP-based ecosystem, including NDI converters, NDI switching system, NDI monitoring system, NDI recording system, Intercom system and centralized management platform, that perfectly matches all the A/V workflow.



# Broadcast

## Live Video Production

Kiloview provides a complete 4K NDI program production solution, including 4K NDI transmission, NDI distribution and scheduling, NDI production, NDI recording, NDI multi-screen monitoring, IP-based voice intercom and a centralised management platform.



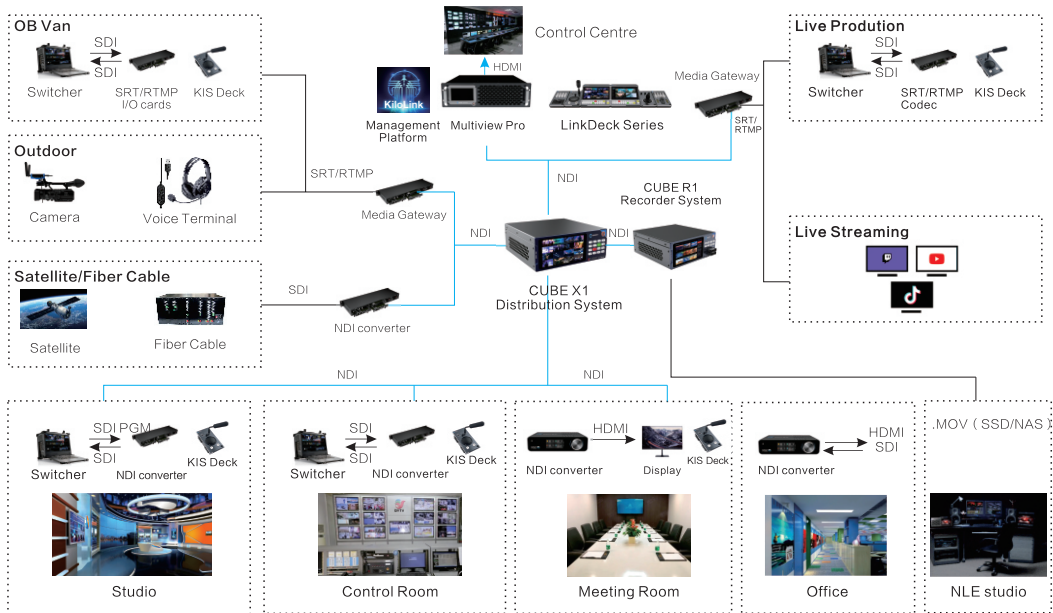
## NDI OB Van

Kiloview provides a complete 4K NDI program production solution, including 4K NDI transmission, NDI distribution and scheduling, NDI production, NDI recording, NDI multi-screen monitoring, IP-based voice intercom and a centralised management platform.



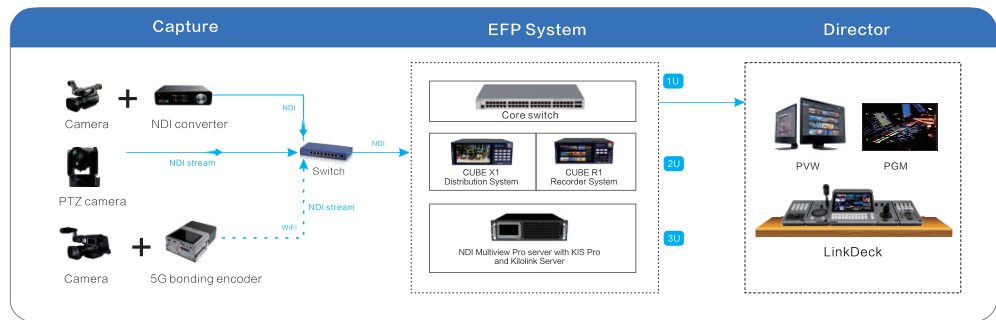
# Live Video Distribution

Interconnect all the signals from the studio, control centre, command centre, conference room, guest room, dressing room, office network, OB van, main venue and sub-venue NDI technology to share resources. Deploying a multi-screen monitoring system, an IP-based intercom system and an IP-based centralised management platform in the command centre to achieve centralised monitoring of all services, intercom and remote centralised management of all equipment.



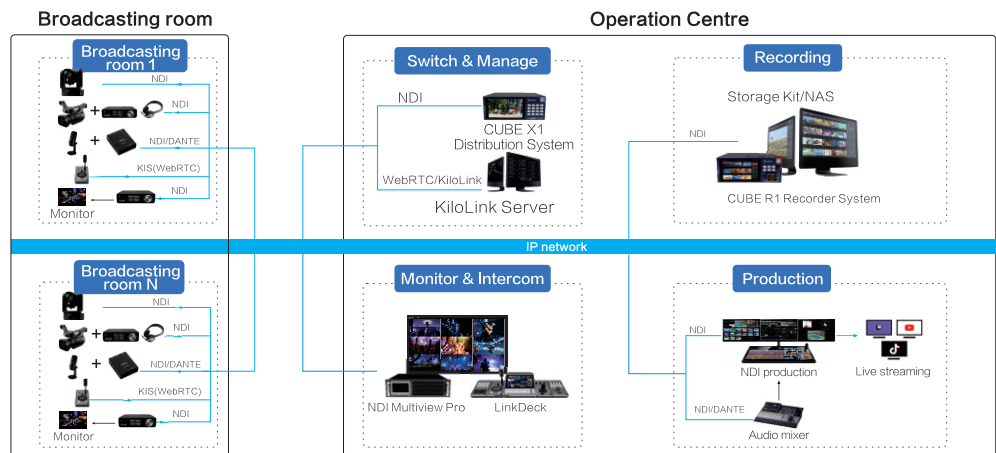
# 4K NDI EFP System Solution

Kiloview 4K NDI EFP system consists of one 8U rackmount chassis and two small equipment boxes, supporting up to 8-channel of 4K signal capturing, switching, live streaming and recording. It's fully IP-based with NDI technology.



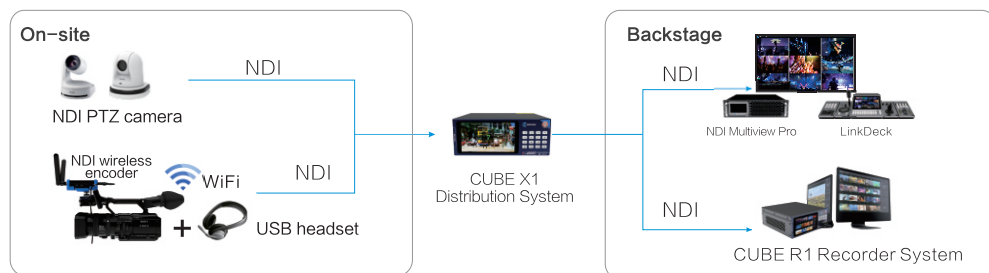
# Broadcast Operation Centre

Deploy NDI cameras, NDI encoders/decoders and voice intercom terminals in various broadcasting rooms while also centrally deploying NDI CORE, NDI production system, NDI recorder, NDI monitoring system and control panels in a control centre. These are interconnected via an IP network, enabling visual monitoring of audio/video signals from all broadcasting rooms, live broadcasting, recording of AV programs and multi-way intercom.



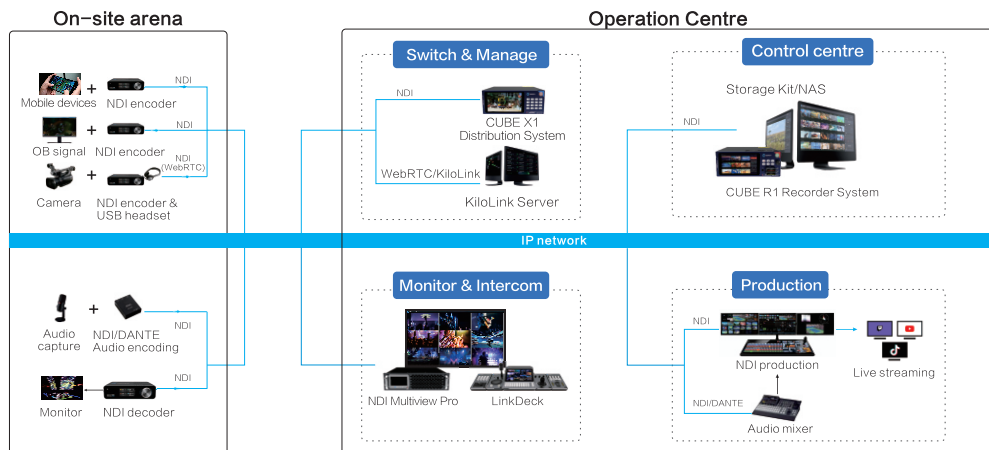
## Reality Show

Reality shows often have multiple cameras and are conducted in various locations, making it difficult for directors to monitor and command. By adopting the NDI capture devices, NDI monitoring system and NDI recording system, you can achieve comprehensive and seamless monitoring and intercom throughout the process, using on-site wired or wireless networks.



## Esports Operation Centre

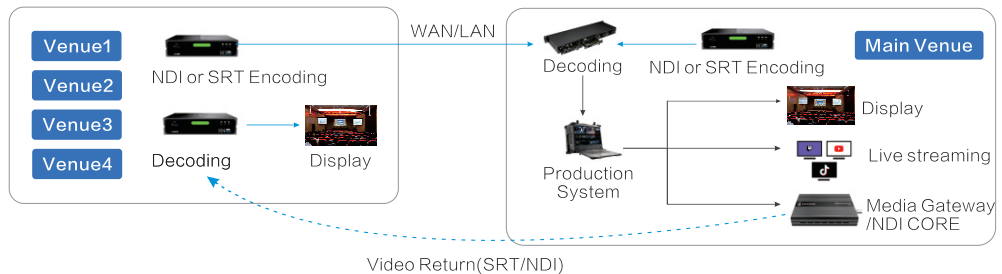
Esports events involve numerous signal sources of various types, and it can be challenging to establish connections within the on-site baseband system. Whether it's mobile device signals, computer OB signals, camera signals, PTZ camera signals and audio signals, leveraging NDI's IP-based capturing, switching, producing, monitoring, recording and intercom can truly achieve lightweight, portable and efficient esports live streaming.





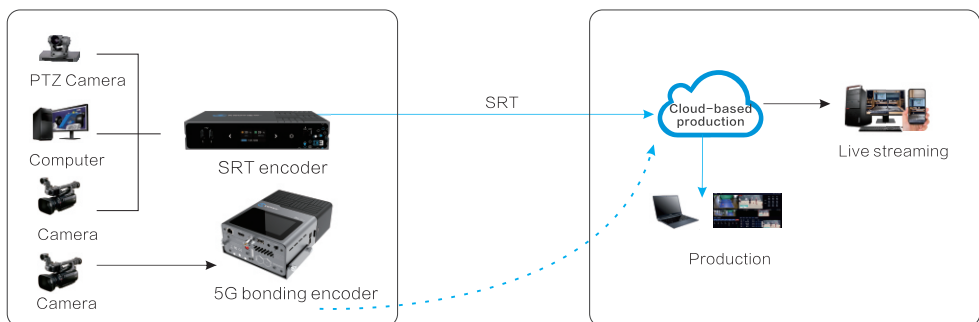
## SRT Streaming Solution

By setting up SRT and NDI encoders/decoders in both main and sub venues to achieve high-quality A/V interaction. SRT offers a bi-directional latency of around 1.2 seconds, while NDI provides a low bidirectional latency of 200 Ms over LAN or private lines. These systems support one-to-many and many-to-one transmission modes, as well as multiple screen interactions and voice intercom.



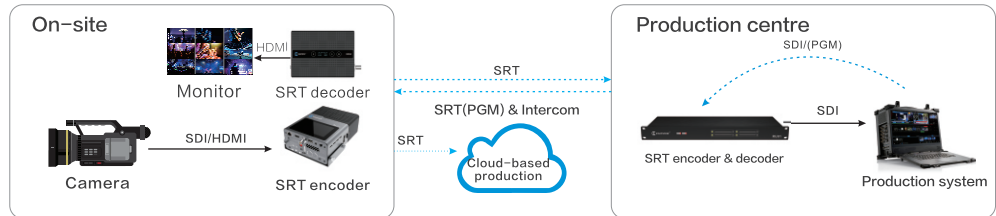
## Cloud Production

Capturing signals from PTZ cameras or cameras can be efficiently transmitted to a cloud-based production system using Kiloview's cost-effective SRT encoders. With cloud-based production, the content is well suited for live streaming.



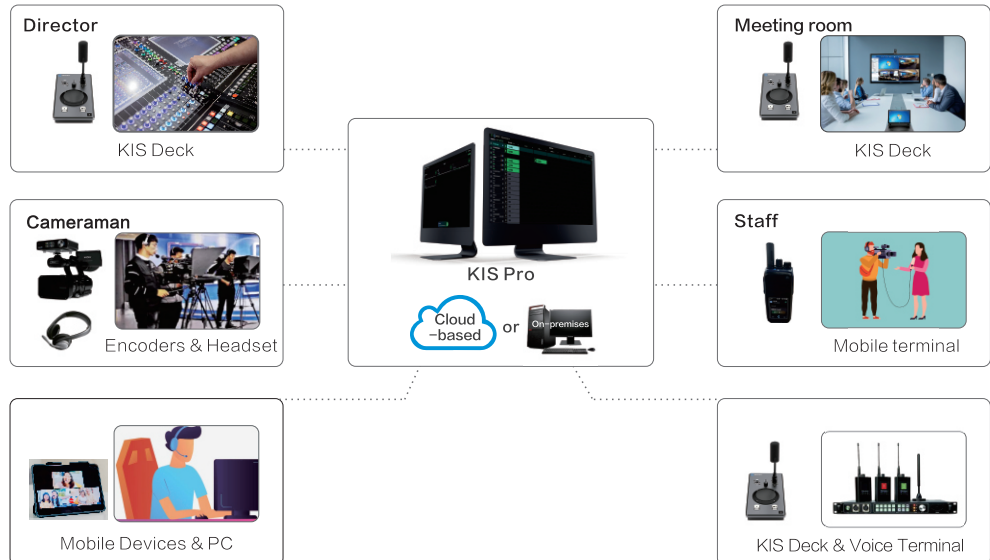
## SRT Remote Production Solution

For remote program production, only shooting is required at the on-site location. All video materials can be transmitted in high quality and low latency (end-to-end 600ms) to the television station production centre or a cloud-based production centre. The solution also supports Tally display (under development), voice intercom, and PGM video return (requires bonding server).



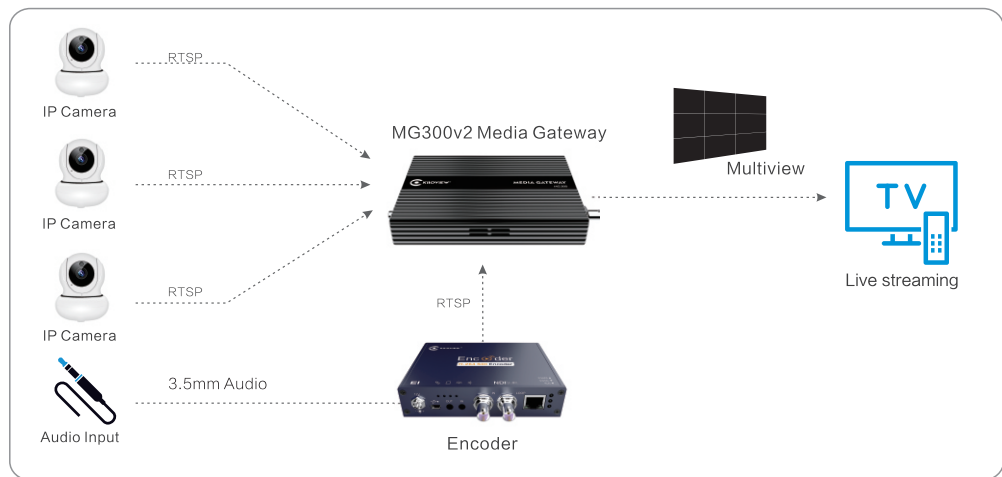
## IP-based Intercom Solution

KIS intercom system consists of a multi-party intercom management platform (software) and various voice terminals. A complete IP-based infrastructure enables cost-effective, convenient and real-time voice intercom for all devices, such as KIS Deck, handheld terminals, smartphones, iPads, computers, encoders and decoders. This system supports encrypted voice intercom, allowing for one-to-one, one-to-many and many-to-many communication in various grouping modes.



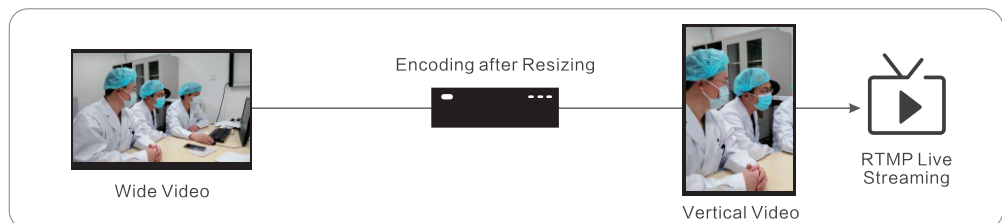
## Slow Television Solution

Kiloview Media Gateway can take in multiple RTSP streams from monitoring cameras or RTSP audio streams. After mixing these streams into a multi-screen display, it can conduct RTMP live streaming and real-time dynamic switching.



## Mobile Phone Live Streaming Solution

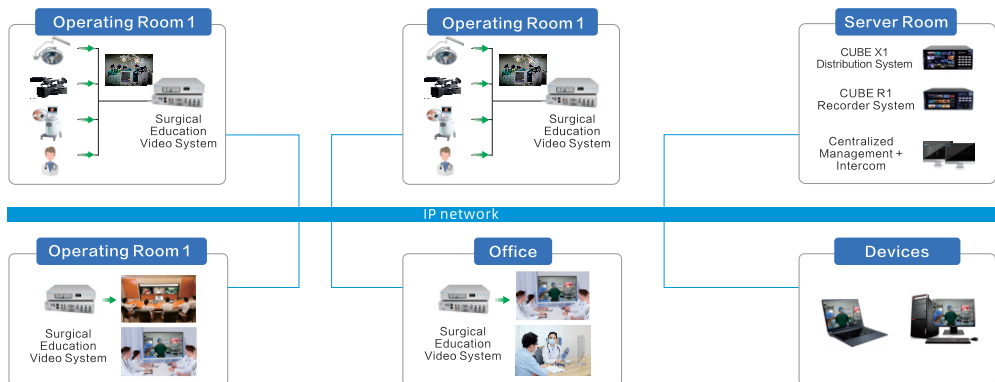
Cameras capture content in wide mode, but vertical video is preferred on mobile devices. Using Kiloview Encoder, you can crop the wide video into a vertical video or rotate the camera by 90 degrees before encoding and streaming. This enables you to achieve vertical mobile live streaming.



# Medical

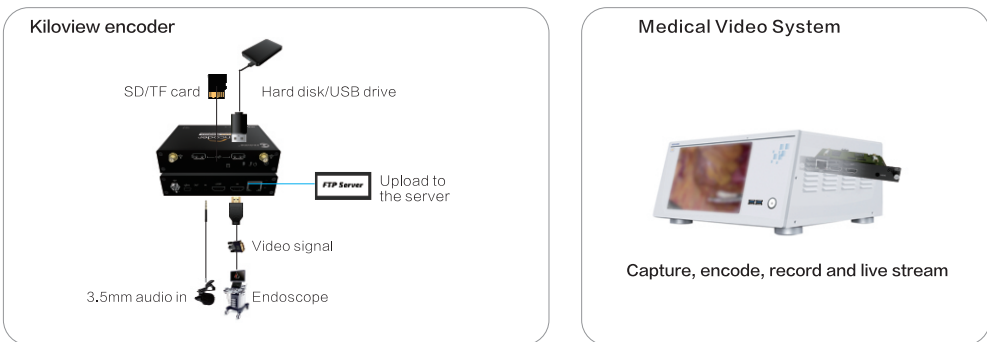
## Surgical Training

Video sources from the operating room, such as laparoscopes, shadowless lamps, surgical cameras, ultrasound machines and microscopes, can be displayed and interacted with the lecturer from the classroom in real time. The teaching system supports practical functions like multiple signal inputs, switching, multi-screen split playback, live streaming, background overlay, local recording and storage, voice intercom, centralised control, and more.



## Surgical Video Recording

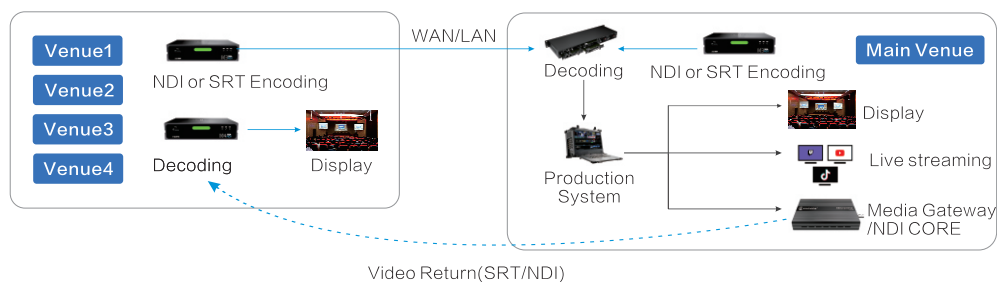
Kiloview encoder can record videos from the endoscope into SD cards, TF cards, hard drives or USB drives. It can also upload videos to a server over the network for storage. The encoder's mainboard can also be integrated into the medical video system to achieve capturing, encoding, recording and live streaming.





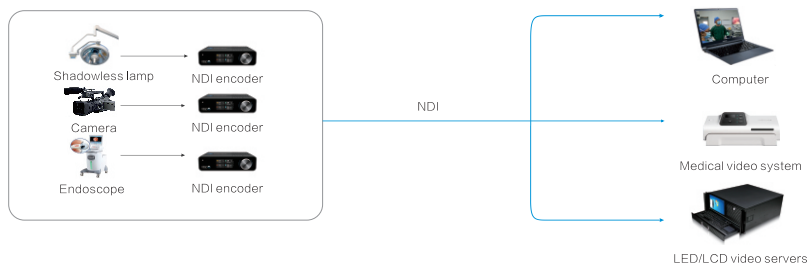
# Multi-venue Live Streaming Solution

By setting up SRT and NDI encoders/decoders in both main and sub venues to achieve high-quality A/V interaction. SRT offers bidirectional latency of around 1.2 seconds, while NDI provides low bidirectional latency of 200 Ms over LAN or private lines. These systems support one-to-many and many-to-one transmission modes, as well as multiple screen interactions and voice intercom.



# NDI Capture Solution

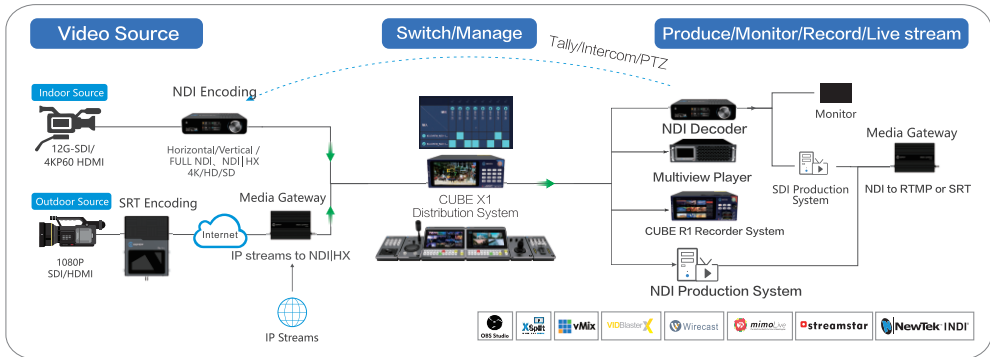
Kiloview NDI encoder can capture 4K/HD video signals, providing high-quality and low-latency access to medical video systems, computers and LED/LCD video servers.



# Education

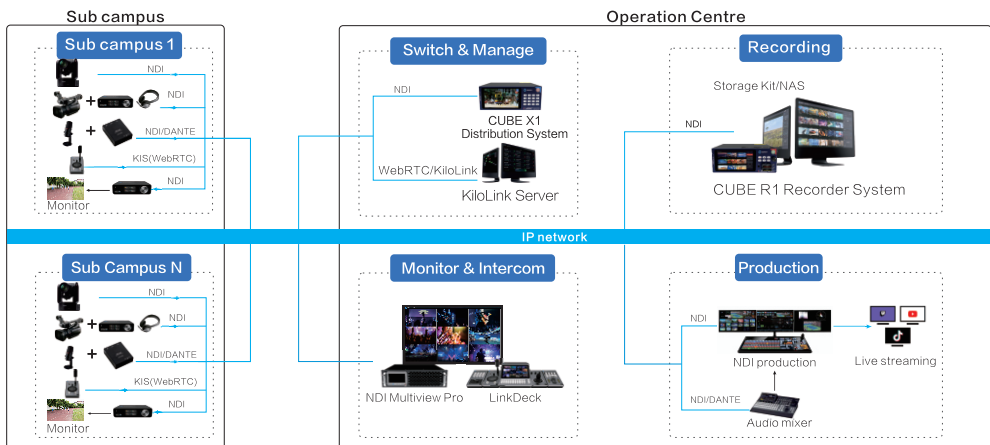
## On-campus Event Streaming

Kiloview's full IP-based NDI studio system for building campus TV station, covering signal capture, transmission, switching, production, monitoring, intercom and centralized management.



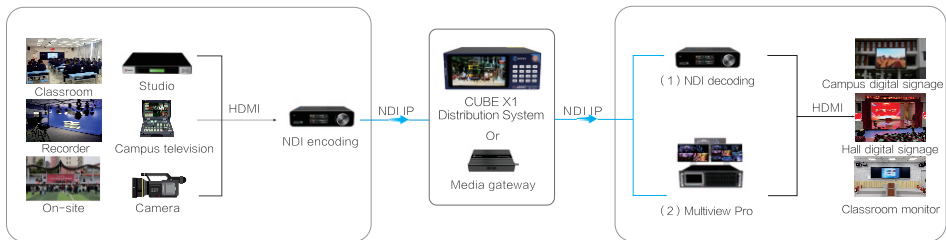
## On-campus Operation Centre

For scenarios involving cross-campus multi-program collaborative recording or live streaming, as well as interactive teaching across multiple campuses, using the Kiloview NDI IP-based control system is a solution. Each campus only needs to deploy cameras and IP transmission devices. The main campus can set up a system for signal switching, packaging, recording, monitoring, and voice intercom. This setup enables unified program production and recording across multiple campuses and seamless signal communication between different campuses.



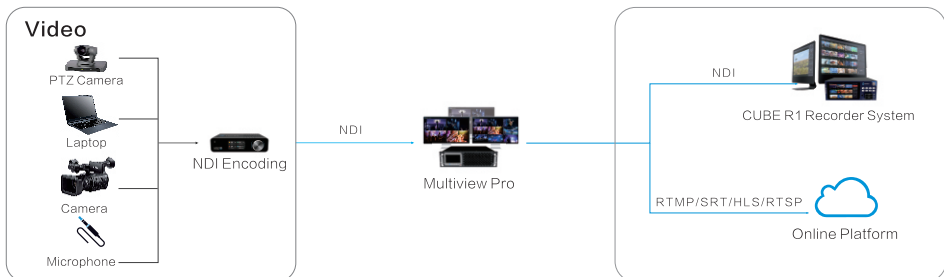
## Multi-campus Digital Signage Solution

Through IP-based conversion, distribution, transmission and playback, videos from campus television, recorder and camera can be online playback on any terminal within the campus. This enables live streaming to various displays around the campus, classroom screens, office computers and more.



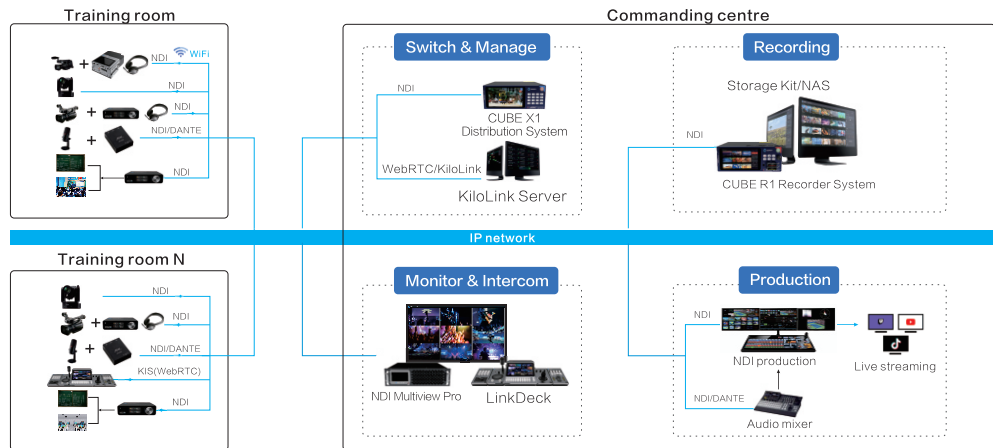
## Online Lecture Solution

Online classroom forms like a small studio equipped with professional cameras, microphones and other devices. Kiloview offers NDI encoders, NDI multi-screen monitors, and NDI multi-channel recorders.



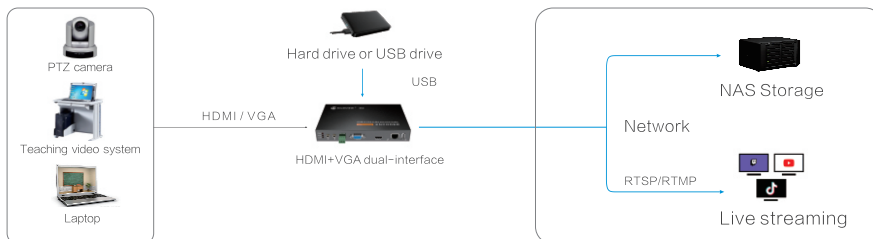
# Campus Practical Training Solution

Traditional practical training requires teachers and students to attend on-campus training rooms for classes. Using the NDI system, all signals in the training room can be transmitted in real-time to multiple teaching rooms, achieving seamless connectivity. The system also supports interactive voice intercom, ensuring that all the objectives that need to be observed are presented on the screen from multiple angles. This effectively solves the challenges of limited space and unclear observation in traditional training methods.



# Multi-room Live Streaming Solution

Deploying a small, cost-effective HDMI+VGA dual-interface video encoder for each classroom for the video into the hard drive or USB drive. Additionally, these devices support NAS network storage and live streaming.

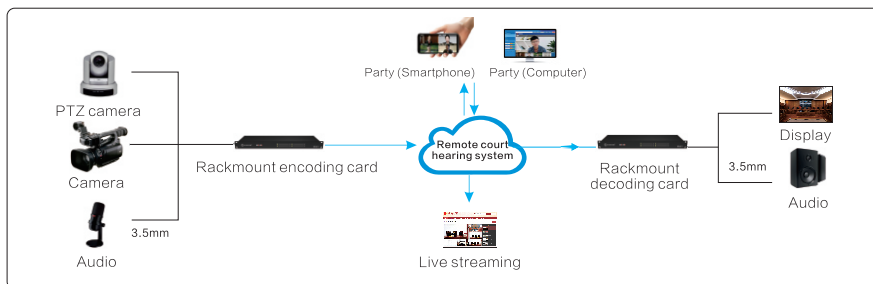




# Legal

## Remote Court Hearing Solution

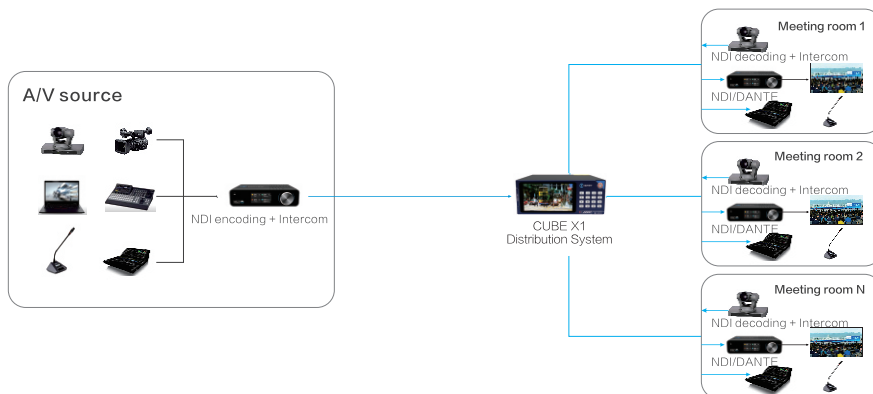
Using Kiloview Video encoders to convert the A/V signals of the courtroom into an IP-based stream. Combined with smartphone and computer signals, it can be produced into live streaming. Additionally, local courtrooms can deploy Kiloview video decoders for on-site large-screen live streaming.



# Conference

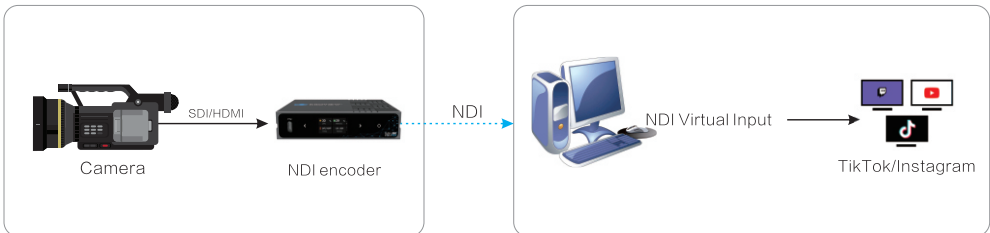
## On-site Meeting Room Interconnection Solution

Converting audio-video signals from multiple conference rooms into the local network through NDI encoding. Then, you can use the NDI Distribution system in the commanding centre to route A/V signals to any meeting room.



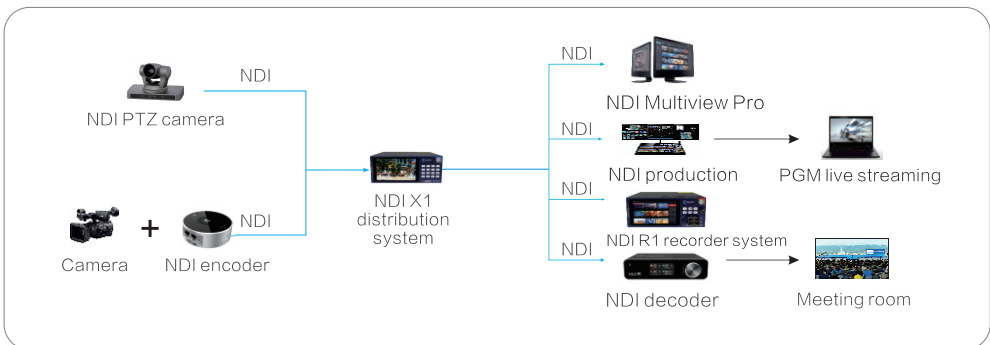
# Online Conference Mobile Phone Live Streaming Solution

Deploying Kiloview NDI encoders for SDI/HDMI cameras and installing NDI Virtual Input plugins on your computer for the convenient and reliable transmission of A/V signals over the network to mobile phone live streaming platforms such as TikTok and Instagram.



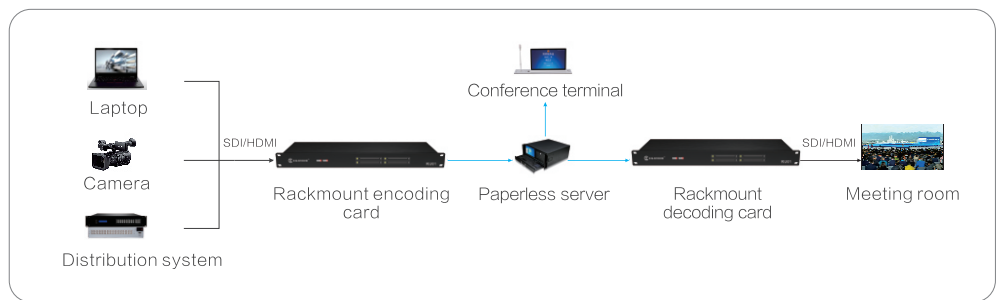
# NDI Camera Conference Total Solution

Kiloview provides a total NDI solution including 4K/HD NDI encoders and decoders, NDI distribution systems, NDI multi-screen monitoring systems and NDI recorder systems. These products can be integrated into a complete NDI conference solution, providing high-quality, low-latency performance. Moreover, NDI encoding boards can also be integrated into conference cameras, allowing for upgrades to NDI conference cameras.



# Paperless Meeting Solution

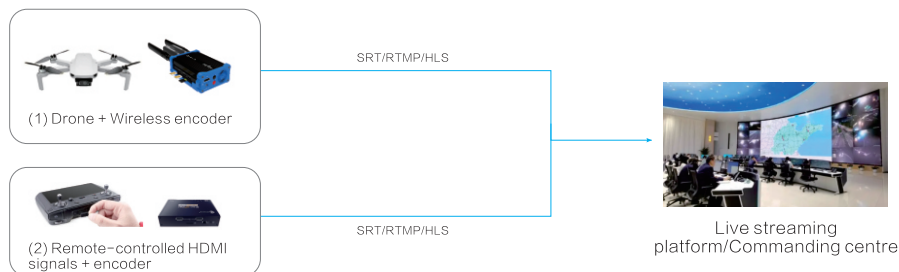
Kiloview's cost-effective rack-mounted I/O cards can be used to integrate external signals into paperless servers or decode video signals for larger displays. These systems support 4K/HD resolutions, voice intercom, centralized management and audio embedding.



## Drone/Satellite

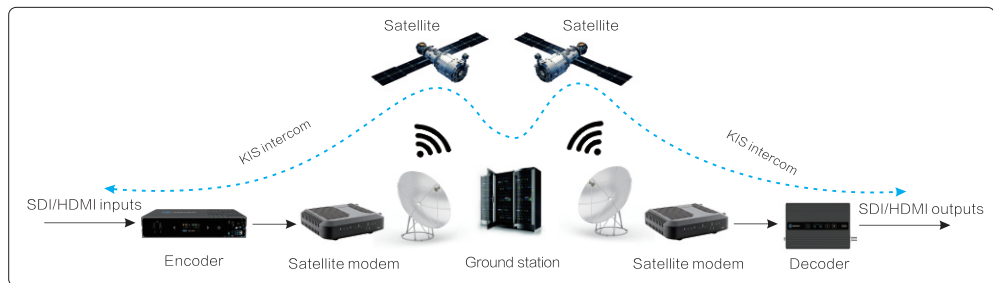
### Drone Transmission Solution

Kiloview SRT encoder supports point-to-point transmission over the internet. This means it can be used to transmit video footage captured by drones in real-time or remote-controlled signals to live streaming platform or commanding centre.



# Satellite Transmission Solution

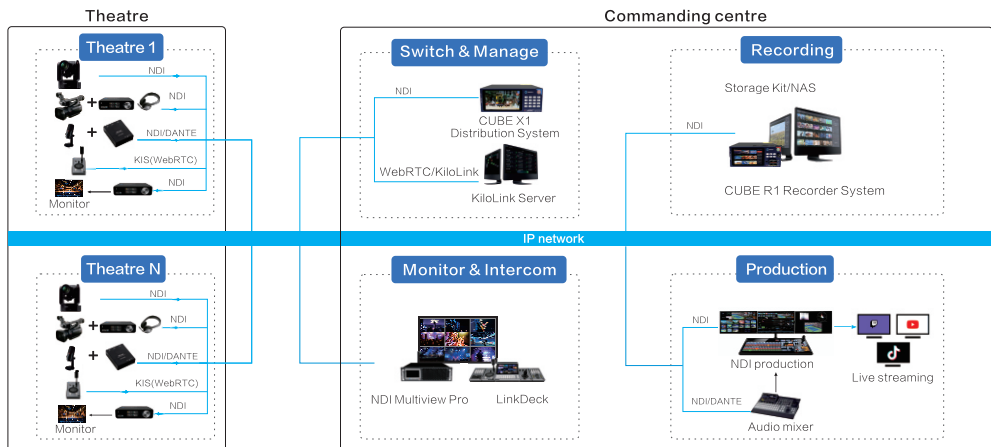
Kiloview's full range of H.264/H.265 video encoders is suited for satellite transmission requirements, offering low bandwidth and high-quality video transmission.



## Theatre

### Multi-theatre Live Streaming Solution

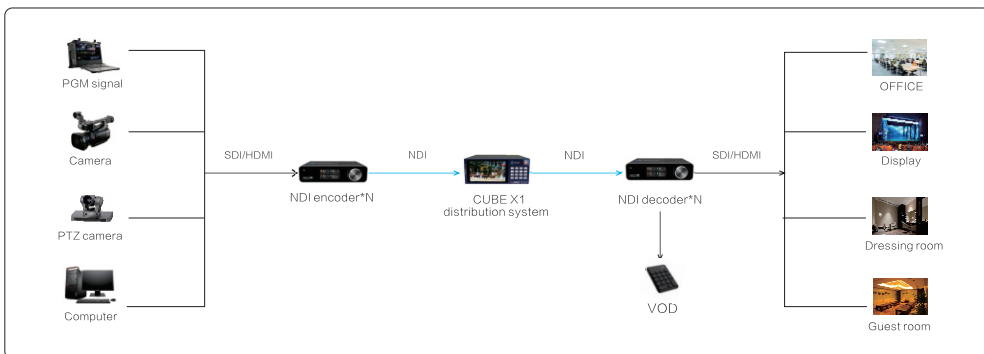
Within each hall in the theatre, it is only necessary to deploy cameras, microphones and NDI video encoders/decoders. In the theatre's control room, you can centrally deploy the NDI distribution system, NDI production system, NDI Multiview system and voice intercom system to achieve the centralised production of signals from various halls.





## NDI Multi-screen Theatre Solution

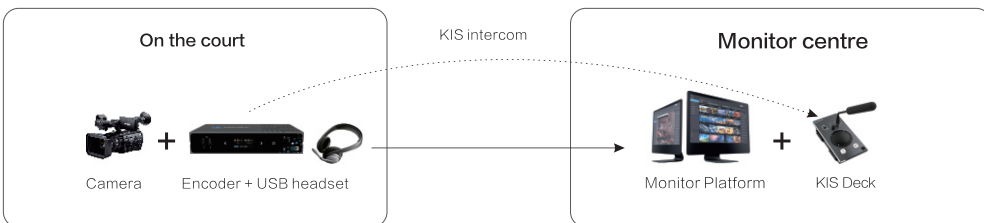
Using NDI encoders, you can convert live performance, camera and stage equipment monitoring signals within the theatre into NDI streams. You can centrally switch and distribute all these signals by deploying an NDI distribution system. Any location within the theatre accessible to the network such as the central display, dressing rooms, offices or control centre, can receive real-time signals from the live performance.



## Sports

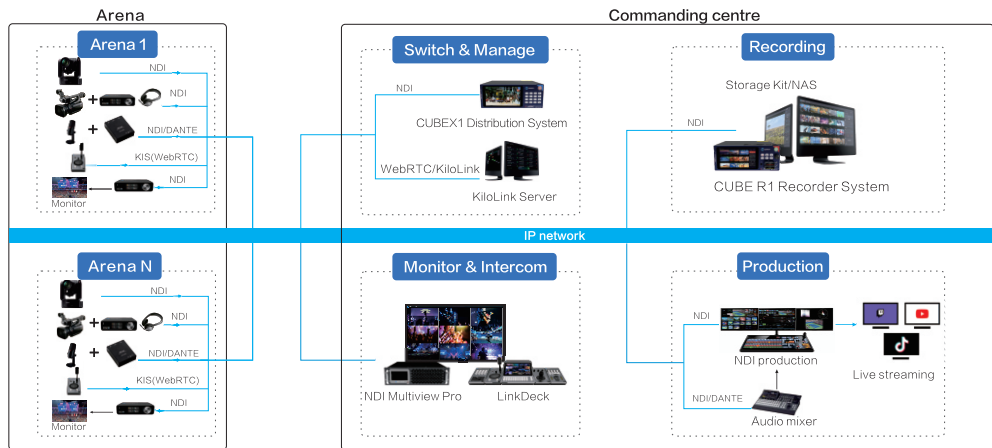
### Video Assistant Referee Solution

In large sporting events, there can be thousands of different signals, making it challenging to establish physical cabling. Using Kiloview encoders, you can transmit live game footage to the referee monitoring platform in real-time. With the additional USB headsets, it becomes possible to achieve multi-party voice communication among camera operators, referees and directors.



## Multi-arena Live Streaming Solution

It is only necessary to deploy cameras, microphones and NDI video encoders/decoders within each arena. In the arena's control room, you can centrally deploy the NDI distribution system, NDI production system, NDI Multiview system and voice intercom system to achieve the centralised production of signals from various arenas.



## NDI Multi-screen Arena Solution





You can convert live sports, cameras and monitoring signals of multiple sports courts into NDI streams using NDI encoders. You can centrally switch and distribute all these signals by deploying an NDI distribution system. Any location of each arena accessible to the network such as the main hall, locker room, media room or office, can receive real-time signals from the live performance.



# Related Products







## N50/N60 4K NDI Converter

-  Encoding & Decoding with One Unit
-  Ultra-low Latency
-  Pro-Level Color Performance
- LCD** Built-in LCD Screen and Scroll Wheel
- KIS** KIS Intercom
-  Central Management






## E3 Dual-channel 4K Video Encoder

- 3G SDI** Encoding Both Video Inputs Of HDMI & 3G-SDI
-  Flexible Formats Selection
-  Compatible with All Protocols
- 16** Go Live to up to 16 Different Platforms
-  Pro-Level Video Procession
-  Powerful Audio Performance






## P3 5G Bonding Video Encoder

- IP** Up to 6 IP Connections Bonding
- 5G** 5G Supported
- H.265** HDMI + SDI Dual Inputs With H.265 Encoding
-  Screen for Status Monitoring and Video Return
-  Redundant Battery
-  Safe and Flexible Bonding Server









## D350 4K Video Decoder

- NDI** All Protocols Supported, including NDI|HX2, Full NDI, SRT, RTMP, RTMPS, HLS, TS over UDP, RTP, and RTSP
-  Improved Decoding Performance
-  16 Preview + 9 Output with Dynamic Switching
- LCD** LCD Screen for Real-time Status Monitoring
-  KIS Intercom & Kilolink Server







## CUBE X1 Distribution System

-  Non-Multicast Multiplex Distribution
-  Up to 16 Channels of NDI Input and 32 Output
-  Compatible with NDI Signals of any Formats/Devices
-  Seamless Switching
-  Group Management
-  User-Friendly Interfaces









## Multiview Pro

-  Unlimited NDI Sources
-  Custom Layout
-  Server Based, Fully Control from Anywhere
-  Multi Windows & Multi Screens Monitoring







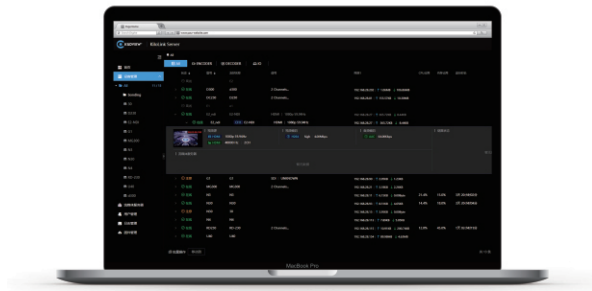
## CUBE R1 Recorder System

-  Up to 9CH Recording Simultaneously
-  All NDI Formats Supported
-  Recording while Playback
-  Original NDI Codec Recording & Transcoding
-  Flexible Recording Storage Options and Strategies
-  User-Friendly Interfaces







## Kiloview LinkDeck

-  Modular Design, Working Independently or Collaboratively
-  Easy Operation with Soft and Physical Keys
-  Web-Based Technology for Real-Time Control
-  Open for Customization, Everything can be Controlled




### KiloLink Server

-  Centralized Management
-  Web Page Login, User Friendly
-  RUDP Based, Make Transmission Safer
-  Easy Deployment
- CPU** Ultra-low CPU/RAM Usage



### KiloView Intercom Server Pro

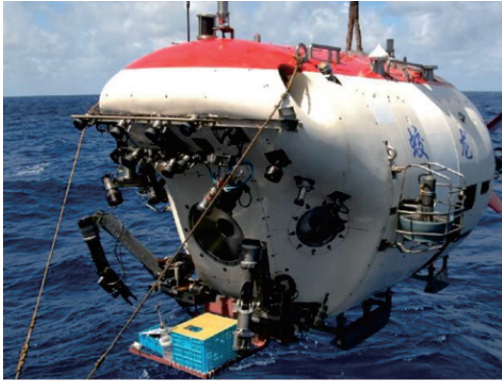
- IP** Completely IP-based
-  Unlimited Intercom Channels
-  Flexible Devices Access
-  Efficient User Management

Please visit our website for more details about products and solutions:

<https://www.kiloview.com/en/>



# Case Study



Provided Video Transmission and Recording Service for Jiaolong Manned Submersible.



Kiloview Powered the Live-Stream of Formula X Racing Weekend.



Kiloview Delivers Ultra-Low Latency Video Transmission During Streaming of the San Fermín Festival.



The 50th aQuelle Midmar Mile Goes Live with Kiloview.



Kiloview Contributed Live Streaming based on NDI in the World-class e-sports.



Kiloview Developed the world's first IP-based OB Van.



Kiloview SRT Transmission Solution Provides Perfect Audio&Video Transmission for Earthquake Rescue Drill.



Kiloview Helped CCTV to build 4K NDI studio.



Kiloview Built NDI studio for Geely Group.



Kiloview Back Up for The 7th World Military Games, with providing 100 video encoders.



Kiloview P series Contributed to the Success of a Half Marathon Race in Italy.



Kiloview Supported DISK to Stream Ultra-low Latency Shared Remote Concert for Ukraine.



Kiloview Ensured the Success of A Multi-city Opening Ceremony in Yichang, Hubei.



Kiloview Provides Encoding for Livestream Held by Chinese Government.

## Our Customers







Technology accumulation



Customers



Product sales



Exporting countries



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