NDI CORE MAX

V1.2 (2025.11.03)

Copyright © 2025 Changsha Kiloview Electronics Co.,Ltd. All rights reserved.

Product Description

NDI CORE MAX is a professional-grade IP video distribution and replication management system designed for large-scale NDI® workflows. It can automatically discover all online NDI video sources via local NDI networks or an NDI Discovery Server, and supports high-quality video distribution up to 4Kp60, including NDI High Bandwidth, NDI HX2, and NDI HX3 streams.

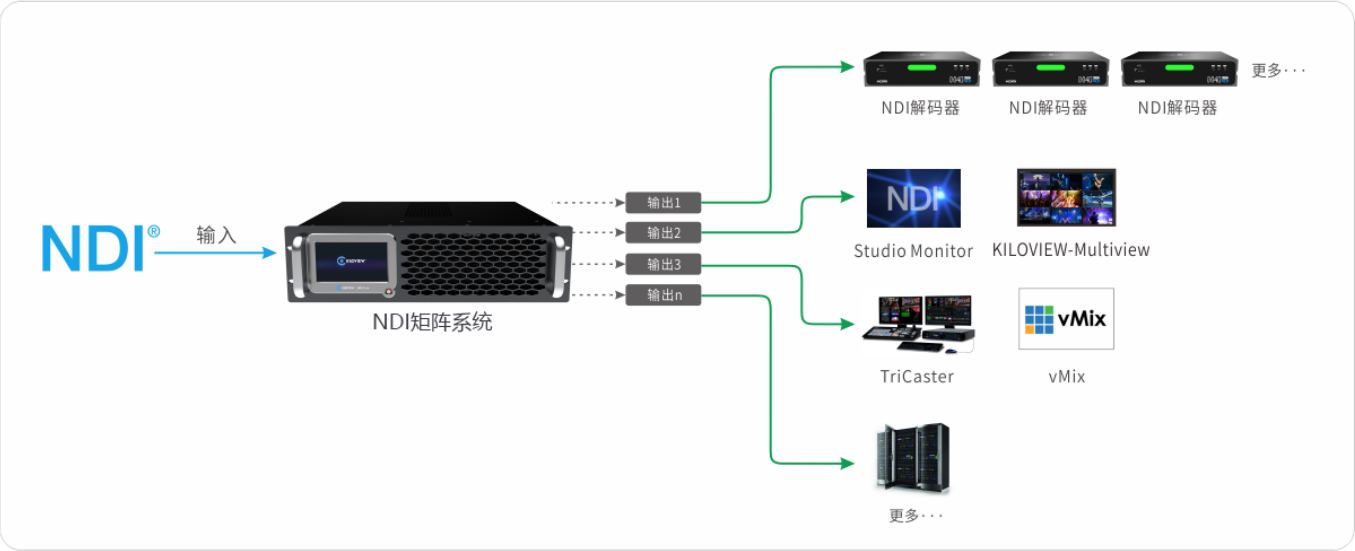
Equipped with dual-port 40Gb fiber network interfaces, NDI CORE MAX is capable of handling up to 64 NDI input streams and 128 concurrent NDI output streams, supporting flexible input/output allocation. Video switching is seamless, with no black frames, stuttering, or visual artifacts. The system provides both matrix crosspoint mode and I/O panel mode, enabling users to adapt to different operational scenarios with ease.

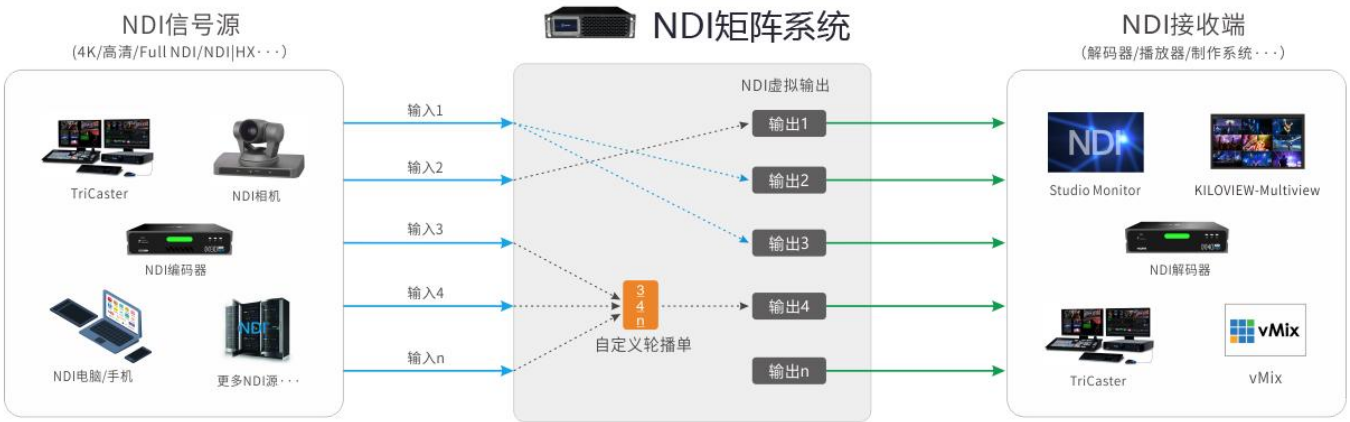
To support complex, multi-department workflows, NDI CORE MAX offers panel grouping, multi-task parallel management, and user permission control, allowing administrators to assign viewing and editing rights precisely. In addition, the system supports NDI source rotation (carousel playback) with configurable sources, playback modes, and timing.

An integrated OLED status display provides real-time system monitoring, including CPU and memory utilization, network throughput, and system uptime, enabling proactive risk detection and ensuring stable long-term operation.

Copyright © 2025 Changsha Kiloview Electronics Co.,Ltd. All rights reserved.

Product Use Case





Copyright © 2025 Changsha Kiloview Electronics Co.,Ltd. All rights reserved.

Key Features

1. Advanced Multi-Workflow Distribution Management

- Supports up to 64 NDI inputs and 128 NDI outputs
- Stable NDI stream replication with no black frames, stutter, or image corruption
- Multiple operation modes: I/O Panel Mode, Matrix Crosspoint Mode
- Customizable panels and grouping based on different operational needs
- User-defined NDI carousel / rotation playback
- Role-based user permission management for enhanced system control

2. Secure and Reliable System Architecture

- Built-in OLED display for real-time monitoring of CPU load, memory usage, network throughput, and system uptime
- Advanced cooling system with liquid cooling, multiple internal fans, and optimized airflow design
- Reinforced chassis structure with improved shock and vibration resistance
- Supports API-based integration and customized development services

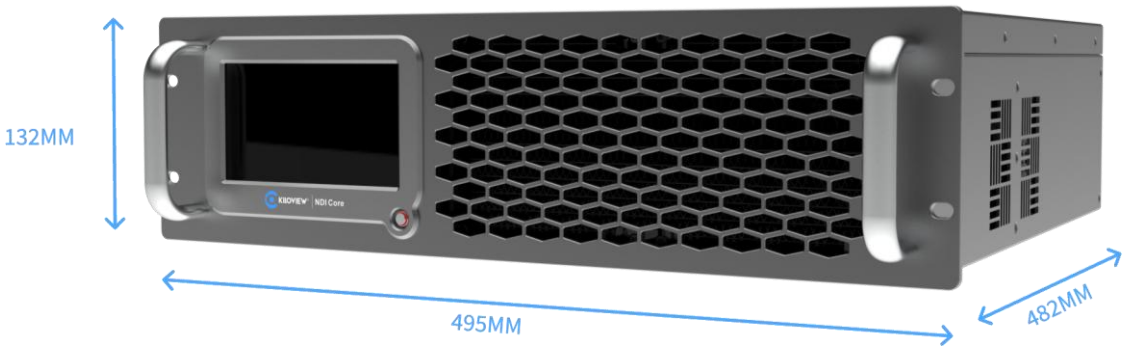
Copyright © 2025 Changsha Kiloview Electronics Co.,Ltd. All rights reserved.

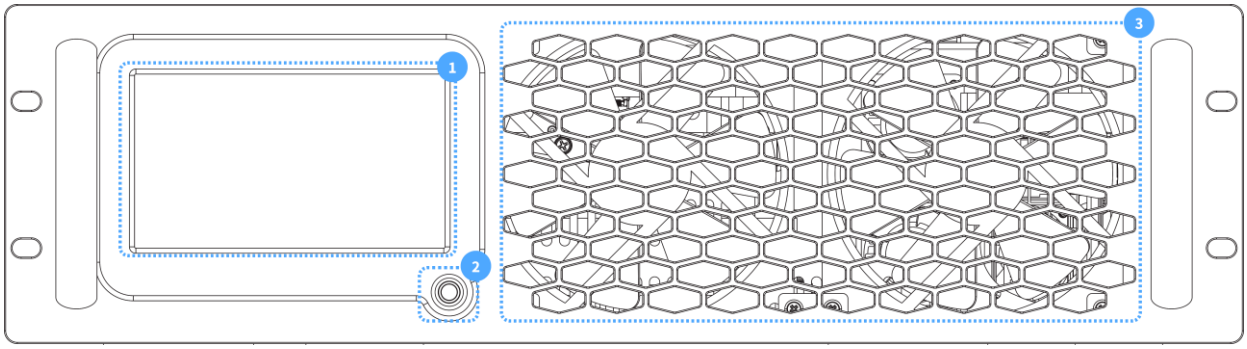
Product Specifications

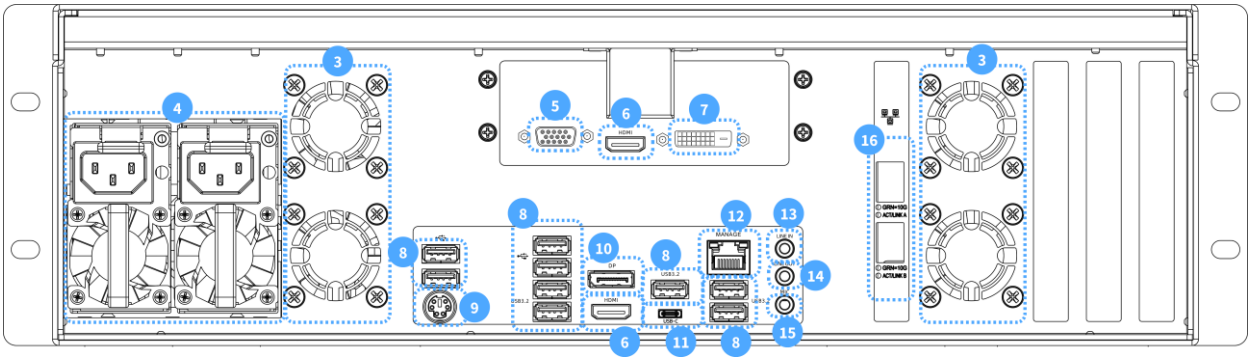
Model	NDI CORE MAX
General Spec	
Max NDI Input / Output	1080P60：96*64 / 64*128 / 32*128 4K60：32*64
NDI Output Connections	Unlimited (bandwidth-dependent; recommended ≤ 20 Gbps)
Max I/O Resolution	4KP60
Supported NDI Formats	NDI HB/NDI HX2/NDI HX3
PTZ / Tally / Metadata	Supported
Seamless Switching Latency	1 frame
Hardware Spec	
Dimensions	495x482x132mm
Weight	11.6kg
Rack Mount	3U
Power Consumption	550W
Working Temprature	0℃~45℃
Input Voltage	AC 110V~240V
CPU	I7 14700kf
Memory	DDR5 32GB(16+16)
Network Interface	40G 万兆双口（64*64版）20G 万兆双口（32*32版）
Power Supply	双电源冗余
Storage	128GB NVME-SSD 固态硬盘 M.2
Cooling	6 x 4020 机体散热风扇
Video Port	HDMI*1 DisplayPort*1
USB	USB3.2 Gen2x2 Type-C接口*1 USB3.2 Gen2接口*2 USB3.2 Gen1接口*3 USB2.0接口*4
Network & Fiber	10 Gbps SFP+ fiber port ×2 RJ45 Ethernet port ×1

Copyright © 2025 Changsha Kiloview Electronics Co.,Ltd. All rights reserved.

Product Overview







1.LCD Display	2. Power Button	3. Cooling Fan	4. Power Supply
5. VGA Port	6. HDMI Port	7. DVI Port	8. USB Ports
9. PS/2 Port	10.DP Port	11.TYPE-C	12.RJ45
13. Audio Input	14. Audio Output	15. Microphone Input	16.10 Gbps SFP+ Fiber Port

Copyright © 2025 Changsha Kiloview Electronics Co.,Ltd. All rights reserved.