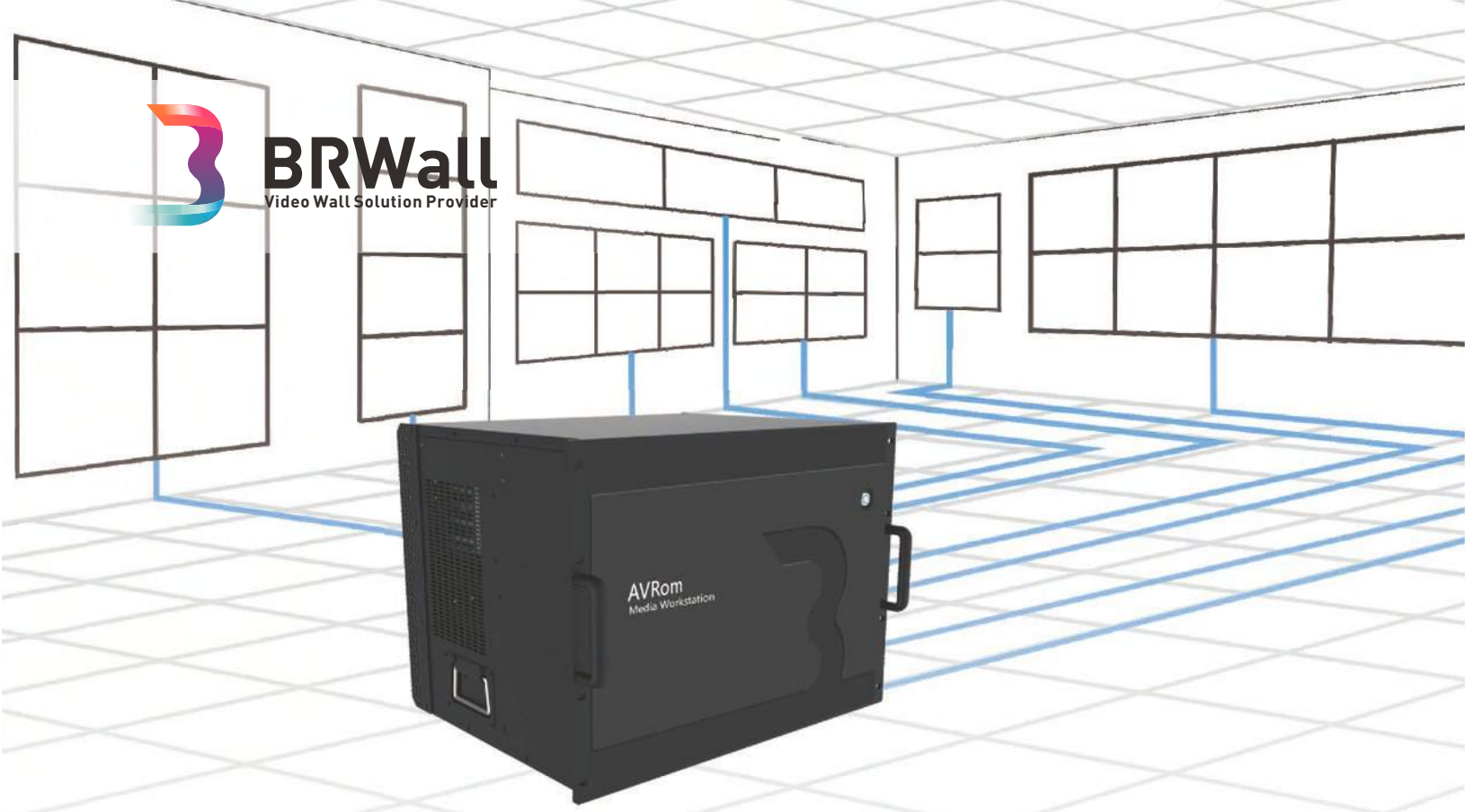
BRWall
Video Wall Solution Provider



AVRom Media Workstation

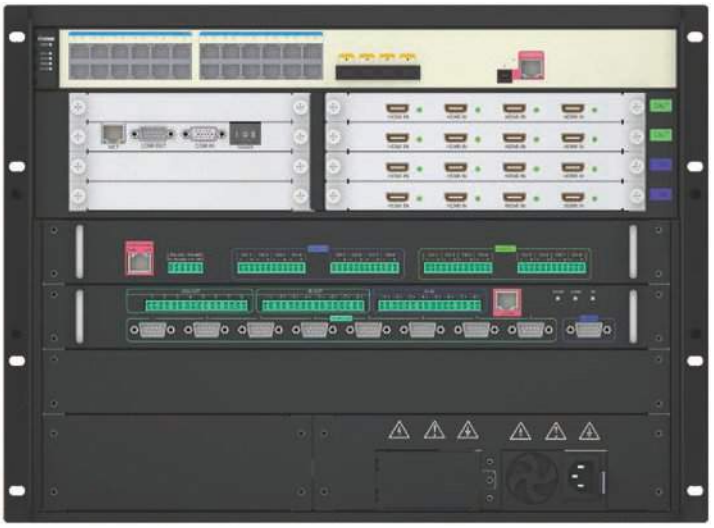
The media workstation / AVRom host adopts a distributed network management architecture, integrated display control module, audio processing module, network transmission module, environmental control module, and matrix module in one host.
The media workstation / AVRom system management software adopts a fully visual operation management interface, which "sees" and "controlled" are Completely synchronized. a set of system software management platform realizes large screen control, signal switching, audio control, KVM transmission, HD recording and live broadcasting , streaming media forwarding, security monitoring, central control system, conference management and operation and maintenance management. effectively solve the dilemma of multi-platform and multi-system management in the process of customer use, improve the customer experience, reduce the professional skills requirements of managers, and facilitate system maintenance.

Input/output Interface

The media workstation / AVRom can support composite video, color component, VGA, RGBHV, DVI, HDMI, SDI, HDBaseT, optical fiber, IP streaming media, etc., compatible with various common resolutions, and can achieve custom resolution input. The output can support DVI, HDMI, VGA, optical fiber, SDI, HDBaseT, etc. the output can be arbitrarily customized resolution output, and the maximum output resolution supports 1920 × 1200.

Management Interface

1*10/100/1000 network port, 8*RS232 ports, 8*IO ports, 8*2R ports, 8*relay ports.



Functional Module

Authority Management
Support user authority management; function module authority management, single input or group signal source authority management, single screen or group screen authority management.

Matrix Control
One client implements unified management of multiple arrays, status and display switching, and scene management.

Audio Control
Visual control of audio signals, arbitrary switching, digital control and transmission, get rid of mixer.

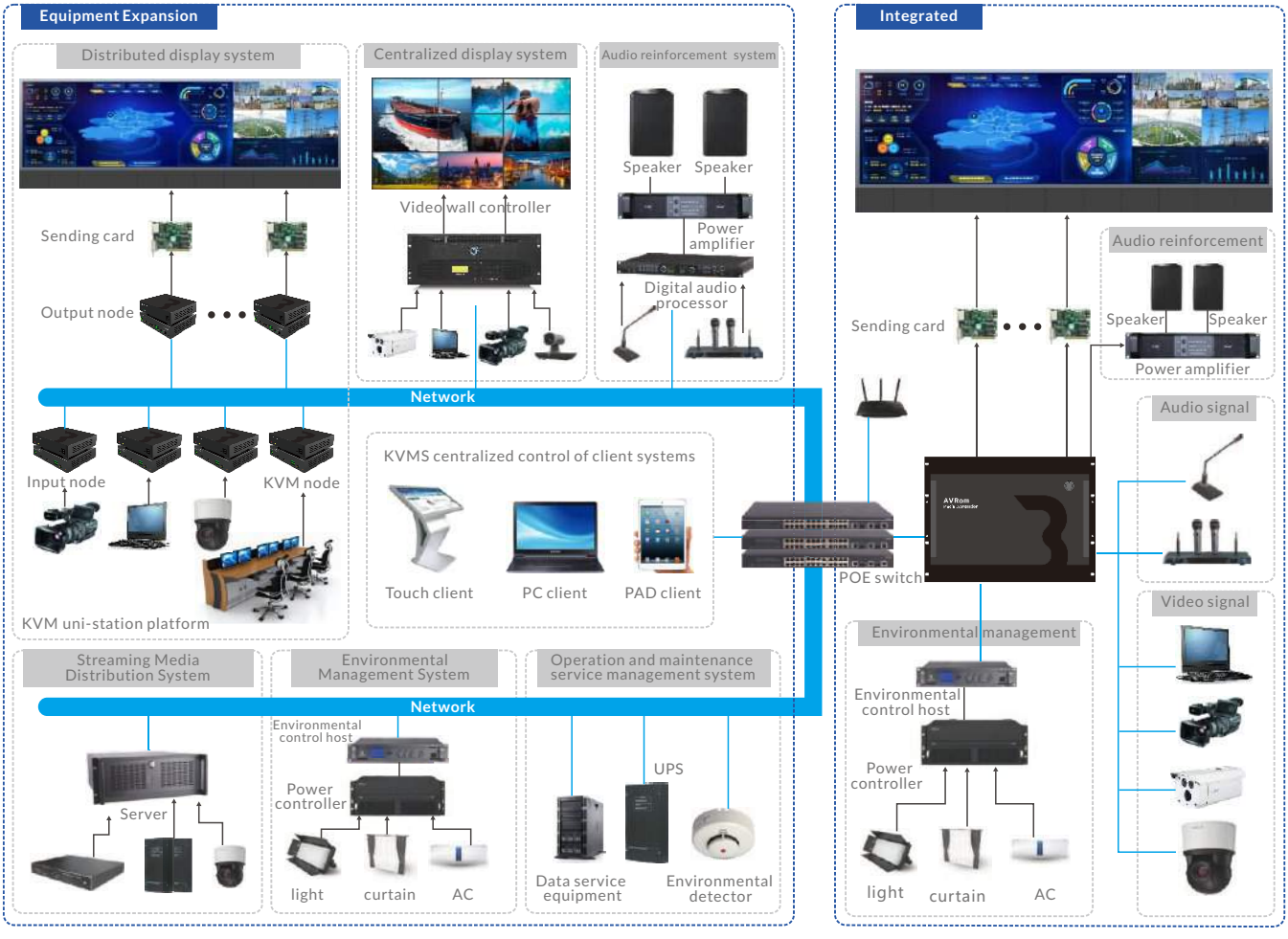
Display Control
Full visual operation management, "see" and "controlled" are completely synchronized; one client manages local and remote multiple signals and multiple screens.

Environmental Control
The user can also preset the temperature, humidity, air quality, lighting, voltage and other indicators of the control room. the system can detect and control automatically in real time, and can also perform manual control.

Operations Management
A complete and realistic presentation of the entire system diagram, detailed links to each line, and true reflection of the system's link lines. when the system fails, warnings and failure levels and information pop up.

You can view the fault location and fault link in the system map, mark the fault line with color, and double-click to see the impact range. simultaneously monitor each device in the system, meticulously to any port of any device. The operation and maintenance module also has automatic and manual inspection functions to provide early warning of failures.

Diagram



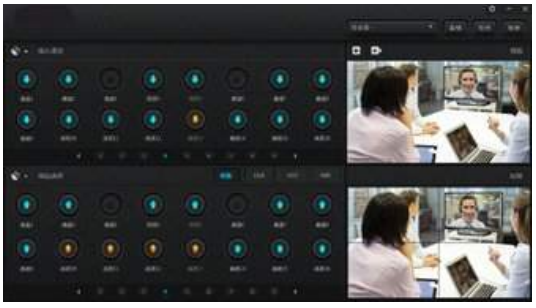
AVRom Advantage

Unified Management

Unified management of all system control software.

Visual Operation

Real-time display of high-definition video and audio, realizing the "what you see is what you get" operating experience, and solving the troubles caused by "blind control".



Synchronous Transmission

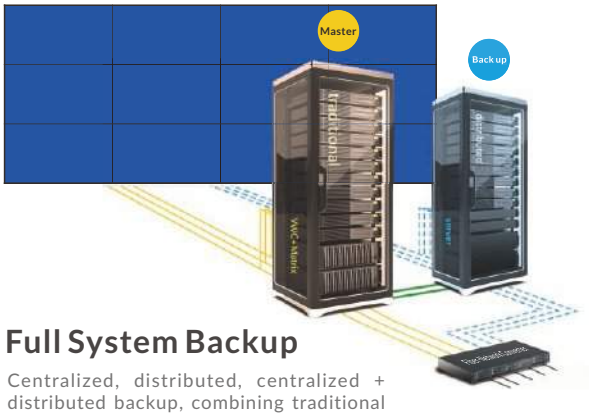
Synchronous transmission and management of video, audio, RS232, IR, USB.

Interaction Management

The software interacts with the device, and the working status of the device is displayed on the software simultaneously.

All- Media

HDMI, DVI, VGA, CVBS, Ypbpr, RGBHV, SDI, IP streaming media access at the same time.



Full System Backup

Centralized, distributed, centralized + distributed backup, combining traditional and distributed, breaks the embarrassing situation where traditional and distributed systems cannot coexist.

AVRom Parameter

Physical dimension	448*360*265
Power supply	AC 90~264V, 50/60Hz
Power	200W×1(Redundant power supply)
Control	Network control
Video Parameters	
Number of slot	4
Capacity	Input:8(max)Output: 4(max)
Signal type	HDMI, DVI, VGA, CVBS, SDI, HDBaseT
Video single channel	4 ports
Type of input card	SDI, HDMI, DVI, VGA, CVBS, HDBaseT
Type of output card	SDI, HDMI, DVI, VGA, CVBS, HDBaseT
Function	Signal switching, splicing, roaming, overlay
Audio Parameters	
Audio capacity	Input:8(max): Output: 8(max)
Echo cancellation	Support
Broadcast System	
Broadcast collection	2 port
Broadcast code	3 port (2 acquisitions, 1 synthesis)
Broadcast protocol	RTSP , MP
Live on-demand concurrent	20 port
Storage	1T
Storage file format	Mp4
Switch	
Interface	Built-in: 8 × 10/100 / 1000Mbps RJ45
	External: 16 × 10/100 / 1000Mbps RJ45
	4 × Gigabit SFP Slots (RJ45 multiplex)
Exchange capacity	192Gbps
Forwarding rate	58.69 Mbps
MAC address	32k
Switching	Level layer 2 network can be managed
VLAN	Support 4K 802.1Q VLAN
	Support MAC / IP subnet / policy / port-based VLAN
	Support VLAN Mapping Voice VLAN
	Support QinQ
	Support 8 priority queues per port
QOS	Support 802.1p / DSCP / TOS
	Support port rate limit and flow rate limit
	Support SP, WRR, SP + WRR
Multicast	Support IGMP Snooping V1 / V2 / V3
	MLD Snooping V1 / V2
	Support IGMP V1 / V2 / V3, MLD Snooping V1 / V2
	Supports MSDP / MSDP for IPV6
	Bidirectional ACL policy / Support VLAN-based ACL
ACL	Support STP Support RSTP
Light wave	1310/1550nm
Optical interface	SFP/LC

Video Input Card

DVI-IN-04
24 + 5 pin / DVI-I (DVI-D signal) × 4, signal indicator × 4

HDMI-IN-04
HDMI × 4 / 3.5 interface × 4, signal indicator × 4

VGA-IN-04
15-pin D-sub (DB15) × 4, signal indicator × 4

CVBS-IN-04
BNC × 4, signal indicator × 4

SDI-IN-04
BNC × 4 / 3.5 interface × 4, signal indicator × 4

HDBaseT-IN-04
RJ45 × 4, signal indicator × 4

Video output Card

DVI-OUT-04
24 + 5 pin / DVI-I (DVI-D signal) × 4, signal indicator × 4

HDMI-OUT-04
HDMI × 4 / 3.5 interface × 4, signal indicator × 4

VGA-OUT-04
15-pin D-sub (DB15) × 4, signal indicator × 4

CVBS-OUT-04
BNC × 4, signal indicator × 4

SDI-OUT-04
BNC × 4 / 3.5 interface × 4, signal indicator × 4

HDBaseT-OUT-04
RJ45 × 4, signal indicator × 4

Audio Card

A0808
8 balanced inputs, 8 balanced outputs

Environmental Control Board

DCC-08
1 × 10 / 100Mbps RJ45, 1 × RS232 IN (RJ45), 8 × RS232 OUT / RS485 , 8 × IR, 1 ×IR learning, 8 × relay (250V 3A), 8 × I / O output;

AVRom Interactive Command Management Solution

AVRom Interactive Command Management Introduction

AVRom IMCS (Interactive command management solution) is a comprehensive management platform that integrates advanced technologies in the fields of network technology, streaming media technology, communication echnology,touchcontrol echnology and computer software and hardware. It includes display, switching, audio, power supply, environment, operation and aintenance and ther functional modules, providing a complete solution for video, audio and control for audio and video applications in command and control centers, emergency dispatch centers and large conference centers.

Place

Display

Switch

Audio

Power supply

Operation and maintenance

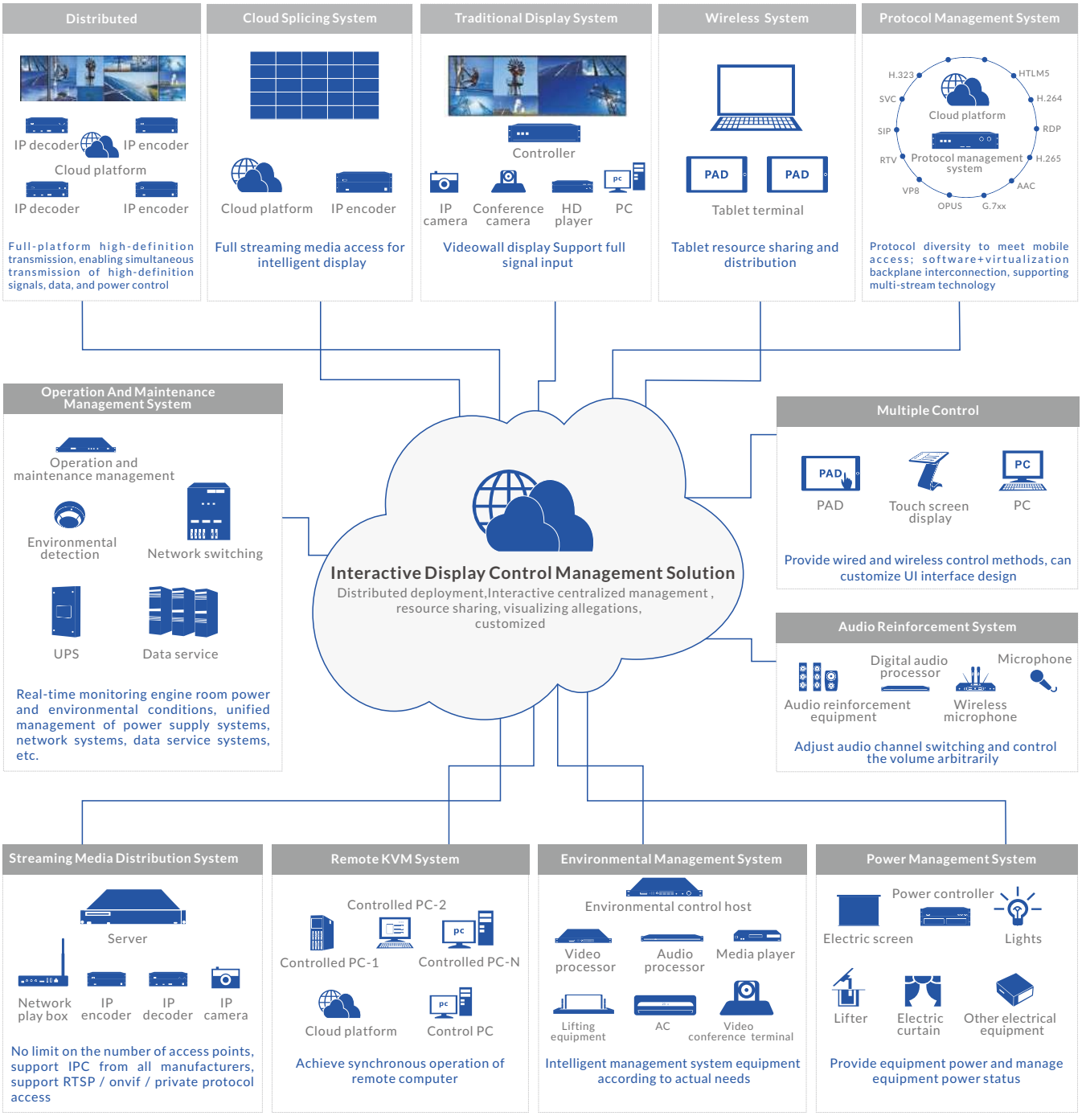
Projector

Lifter

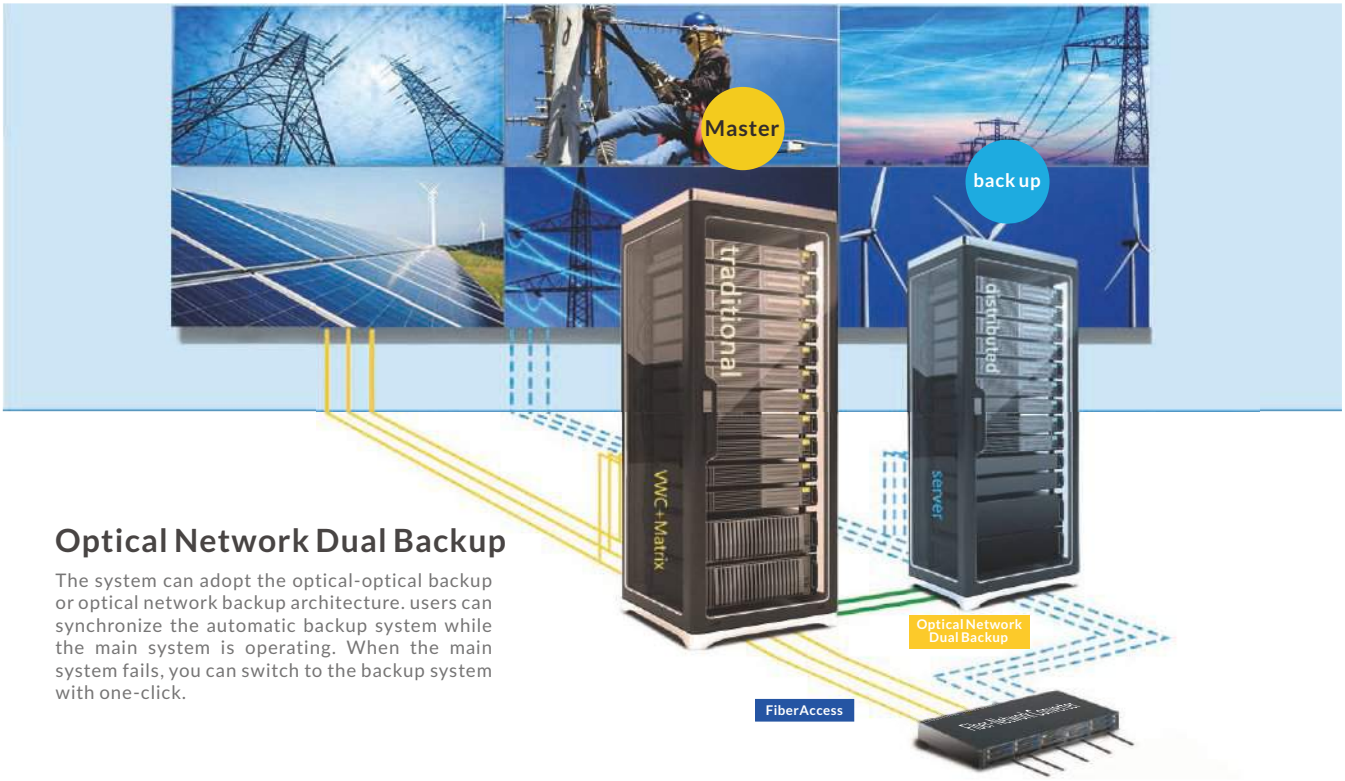
Camera

DVD

AVRom Interactive Display Control Management Solution



AVRom Display System



Optical Network Dual Backup

The system can adopt the optical-optical backup or optical network backup architecture. users can synchronize the automatic backup system while the main system is operating. When the main system fails, you can switch to the backup system with one-click.

Visual Operation

At the control end, users can monitor the big screen display status, signal source echo image, and current status of each device in real time, and get rid of the trouble of blind control completely.

One-Click Call

User can save commonly used display modes as different scenes in advance, and customize the scene names. The saved scenes are displayed in the form of thumbnails, and the corresponding scenes can be recalled by licking the thumbnails when needed.

Videowall Power on/off Control

Users can switch on and off LCD displays such as LCD , LED , DLP , and TV through switch buttons on this interface.

Multi-Group Screen Management

One client manages different signal sources and multiple groups of screens locally or remotely, and realizes the shared display and unified control of signal sources between different places on multiple groups of screens.

AVRom Operation And Maintenance Management System

Scene Save And Recall

Users can save commonly used switching states as different scenes in advance, and customize the scene name. when needed, they can simply call the scene to switch the matrix to the desired state.

Multi-Matrix Control

Multiple matrix can be managed and controlled through one client. users can customize the name of each matrix.

Customized Channel

Users can customize the name of each input and output channel of the matrix for easy control and management.

Preview

Through the dynamic topology map automatically generated by the system, users can grasp the running status of the entire system, online status of equipment, alarm conditions and other information in real time.

Real-Time Alert

When system failure is detected, warning message will pop up on the software interface to inform the failure level and specific failure information. at the same time, the location of the failure point will be indicated on the topology map, and the link affected by the failure will be identified.

AVRom Switching System

Switch Status Display

The control terminal can obtain the current switching status of the matrix in real time, and present it in two ways of different states of the list and buttons, which is convenient for user supervision.

Signal Source Preview

Users can monitor the real-time images of all signal sources through the preview window for visual control.

AVRom Audio System

Digital Transmission

The networked form is used to transmit and control the audio signal, and get rid of the traditional mixer.

Visual Display

See the current volume level, level value status, and switching status of the audio signal in real time.

AVRom Environmental Control

Lighting Control

Achieve individual or global switch control of lights.

Curtain Control

The curtain can be controlled individually or globally.

Equipment Power Control

The device power can be controlled individually or globally.

AVRom Cross-Regional Unified Management

Multiple Video Wall Management

One client can manages different signal sources and multiple groups of screens locally or remotely, and realizes the shared display and unified control of signal sources between different places on multiple groups of screens.

Projection System Control

Individual or unified control of the projector, projection screen, and projector hanger.

Video Conference Terminal Control

Remote control for video conference terminals.

Camera Control

Can control camera focal length and PTZ.

AVRom Peripheral Control System

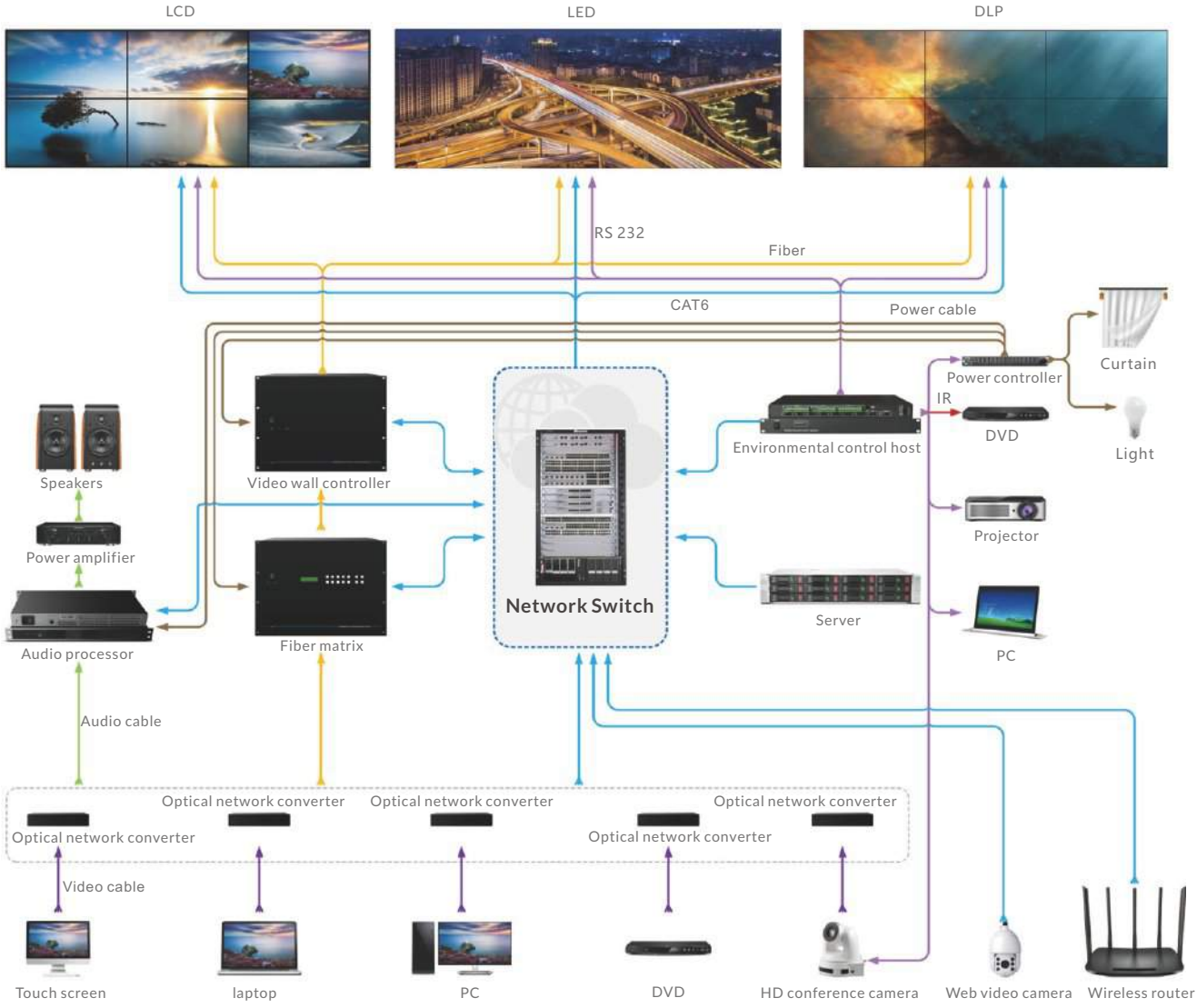
DVD Control

Can control play back of DVD devices.

KVM Control

Can control the signal source PC by remote control.

AVRom System Diagram



PAD client

Touch display screen client