# Zio

## Networked Audio/Video/Control

RGB SPECTRUM

Our Zio family of products provide robust AV distribution and management coupled with an easy-to-use GUI and comprehensive administration tools.
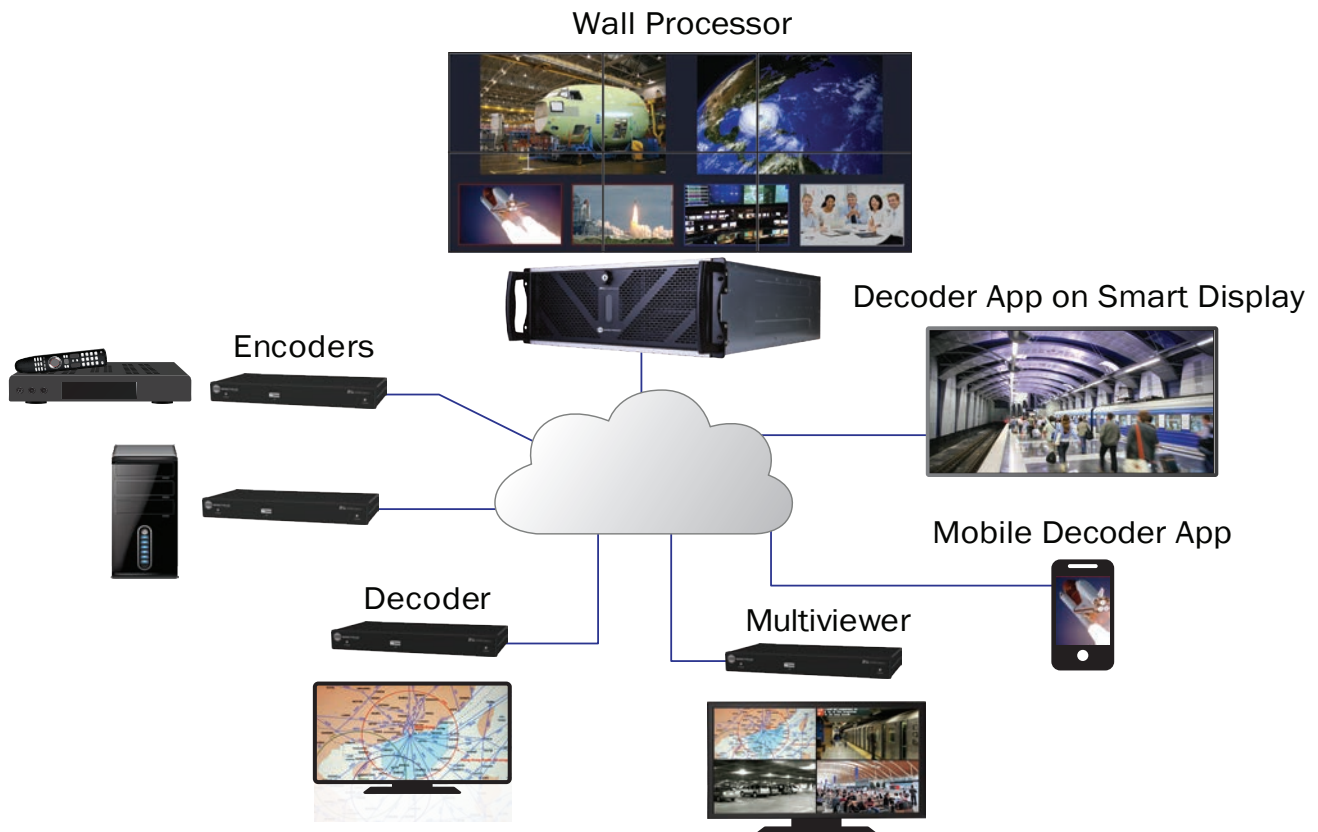
Zio® networked AV/IP delivers real-time video and audio over any size network. No other vendor offers as complete a system.

**Others offer encoders & decoders; We provide an AV/IP *platform*.**

- We support smart displays, simplifying installation and saving space & cost.
- We are enterprise-capable, at home on WANs as well as LANs.
- Our decoders offer web-based content along with live video.
- A mobile decoder app vastly expands the reach of the system.
- Our solution includes multiviewers & videowalls for multi-signal presentation.

# System Topology

The Zio platform provides a full set of components to configure an AV/IP solution, including encoders, decoders, multiviewers, video wall processors, and decoder apps for smart displays and mobile devices.



Wall Processor

Decoder App on Smart Display

Encoders

Mobile Decoder App

Decoder

Multiviewer

# Key Features

- Management and control across LANs and WANs
- Live video + web-based content
- Decoder app for smart displays and mobile devices
- Scripting interface for external system control
- HDCP Compliant



## Gateway Optimization - LANs and WANs

Zio's architecture is designed for bridging the gap from LAN to WAN, allowing you to pull in content from anywhere and push content out to where it needs to go.

## Scalability

Zio products are based on a peer-to-peer architecture that provides near infinite scalability. As your system grows, additional Zio endpoints can easily be added.

## Flexible Compression

Choice of H.264 compression method and parameters allow optimization for the needs of any environment, e.g., high quality, low latency or low bandwidth. Where bandwidth is sufficient, Zio supports all I-frame compression for the highest quality and lowest latency.

## KVM Control

The Zio operator station supports up to three desktop displays for decoding and viewing IP streams, with keyboard and mouse (KVM) control over connected computers.

## Reliability

Zio's peer-to-peer architecture avoids "single point of failure" vulnerability. An automated failover feature helps ensure continuous operation.

## IP-Based Multiviewer

Zio multiviewers allow simultaneous decodes of multiple streams on displays or projectors, at up to 4K resolution. The Zio multiviewer line-up includes easy-to-deploy, handy-sized models and higher capacity, rackmounted units.

## Video Wall Functionality

Zio wall processors provide the ability to display IP content across multiple displays. For additional functionality, Zio endpoints are also integrated with RGB Spectrum's *MediaWall* and *Galileo* video wall processors, providing streaming inputs to the wall and streaming video wall content to other destinations.

## Device Interoperability

Zio products are fully interoperable with many other H.264/H.265 networked AV products. The Zio solution includes mobile device and smart display decoder apps to extend the reach of your AV system.

## Third-Party Control

Zio can control external systems or be controlled by them; scripting enables sophisticated interaction. An API for control by third-party devices is available.
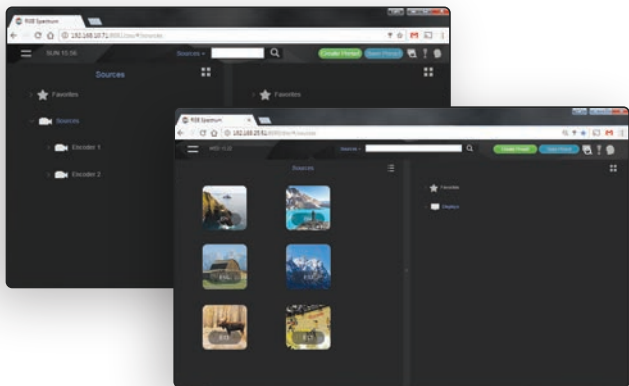


## Web Content + Live Video

Zio endpoints include the ability to display browser-based content along with live video using Zio WebView. Web pages, tickers, analytics – anything that can be displayed in a web browser can be dragged and dropped onto a window on the screen as easily as a video stream, facilitating digital signage and data analytic display applications.

# Intuitive Control

Our User Experience team has designed the Zio control interface from the ground up. Simplicity and ease of use are evident throughout. But don't let the simplicity fool you - the Zio control interface allows administrators access to very advanced tools.
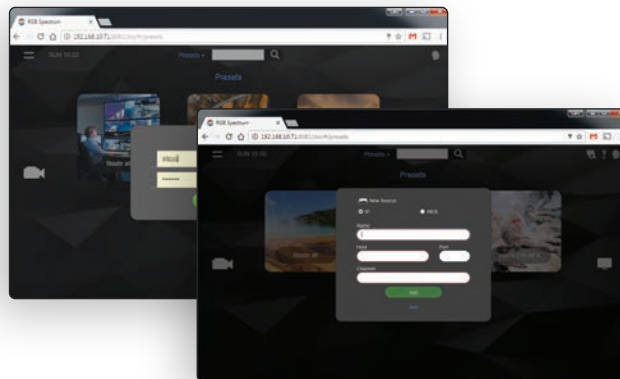
## User Interface

The Zio user interface provides live thumbnails of each Zio-originated stream. Search tools make finding content quick and easy.

Any number of users can control distribution of content and manage endpoints – via PC, tablet or phone.

## Robust Administration

Our solution delivers automatic device discovery, group device control, and bandwidth management to give administrators the power to set up quickly and keep operations running smoothly.

## Decoder Apps for Smart Displays & Mobile

The Zio Networked AV system allows you to decode a stream directly on a smart display or mobile device with a Zio app.

For smart displays, system configuration is streamlined by eliminating the need for separate decoders.

The Zio mobile app connects remote workers allowing any stream to be sent directly to the mobile device. Additionally, mobile users can select and view any stream in the Zio ecosystem.

# Unified Management System

Setup, operation and management of Zio devices is facilitated by a Unified Management System. It is also the gateway for third-party control of Zio devices. A fully functioned API provides enhanced control of:

- Setup and operation
- Device group definition
- Device discovery and configuration
- User management and content security
- Content routing
- Scripting
- Preset save/recall
- Device management
- User/device access control
- Bandwidth management
- Remote firmware updates
- Content searching

## Encoders/Decoders

### S2000 Series Encoder



The compact Zio S2000 encoder accepts inputs up to 4K resolution over a locking HDMI connector with loop through capability. Power over Ethernet (PoE) is provided to simplify installation.

### D2000 Series Decoder



The compact Zio D2000 is a flexible decoder designed to decode and display streams at up to 4K resolution. Power over Ethernet (PoE) is provided to simplify installation.

## Multiviewers

### D2000 Series Multiviewer



The compact Zio D2000 multiviewer allows multiple streams up to 2K resolution to be decoded and viewed on a single display. Power over Ethernet (PoE) is provided to simplify installation.

### D3000 Series Multiviewer



The Zio D3000 multiviewer builds on the functionality of the D2000, providing 3x the number of simultaneous streams displayed at up to 4K resolution.

## Wall Processors

### D3000 Series Wall Processor



The Zio D3000 wall processor allows streams to be decoded and viewed on up to 4 displays. Streams at up to 4K resolution can be placed any size, anywhere.

### D3100 Series Wall Processor



The Zio D3100 wall processors build on the functionality of the D3000, supporting up to 16 displays. Streams at up to 4K resolution can be placed any size, anywhere.

## Accessories

### Zio Rak Mounting Shelf



The Zio RAK is a rackmount shelf for up to 10 Zio S2000 or D2000 series units. This convenient 6RU high shelf allows each endpoint to be securely mounted in a vertical orientation and is designed for use with the PDU 400-12.

### PDU 400-12 Power Distribution Unit



The convenient 400-watt Power Distribution Unit provides 12 channels of 12-VDC power in a rugged, 1RU rack mountable enclosure. It is designed for 24/7 reliability, allowing system designers and facility managers to optimize power management.

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