

Zio AV-over-IP Platform

Video Distribution, Recording, and Display
for Mission-Critical Applications

Zio AV-over-IP

The ideal choice for mission-critical applications.

Zio reaches across an enterprise, a facility, a ship, a fleet, a theater of operations. It supports enterprise-wide mission-critical video distribution and display for collaboration and decision support. Visual quality is a part. So is 24/7 reliability. Intuitive user interfaces. Good ergonomics. Scalability. Flexibility. All are part.

Based on almost 40 years of experience, RGB Spectrum is proud to offer a comprehensive transmission and display platform connecting decision-makers over baseband, LAN, WAN, and mobile networks. As an open, standards-based platform, Zio is compatible with third-party equipment as well as RGB's own full line of offerings including IP encoders, decoders, recorders, multiviewers and video walls, with a common user interface.

Effective video distribution and display is a multifaceted task. Data must not only be available; it must be easy to access. Our user interfaces coordinate video processing across system components, designed for intuitiveness and simplicity with live thumbnails of available signals and customizable presets for quick changes. We provide APIs to build custom interfaces for event-driven control, external alerts & scheduling. Good ergonomics also help, as in the use of single keyboard and mouse control of multiple systems.

No other vendor offers as complete a video-over-IP platform, with tight integration between distribution and display. A scalable, reliable, and secure platform supporting industry standards, Zio is the ideal choice for mission-critical applications.

Key Features

- ✓ Multichannel encoding in a small package
- ✓ Encoding capabilities up to 4K resolution
- ✓ Advanced display capabilities including multiple decodes on a single screen
- ✓ Multiple compression schemes, including H.264/H.265
- ✓ An open architecture supporting third-party IP cameras & streaming servers
- ✓ An FPGA architecture that provides inherent future proofing
- ✓ 1GbE networking
- ✓ All systems TAA compliant; most made in the USA



Enterprise-Class Capability

The *Zio* platform provides for the efficient distribution, recording, and display of video streams, from almost any source to any destination, over any network, onto any display.



Redundancy

Zio products are based on a peer-to-peer architecture that is inherently scalable and redundant, with no single point of failure.



Flexible Compression

Hardware support for H.264 and H.265 compression combines high-performance visuals with bandwidth-efficient global distribution. Multiple H.264 and H.265 signals can be decoded simultaneously on a single display.



Multiviewer & Video Wall Integration

Zio processors can display multiple IP and baseband video streams simultaneously. In addition, they can encode baseband video signals and even mirrored composite images for streaming over a network.



Open Ecosystem

The *Zio* platform was designed from the ground up as an open, standards-based system. It supports third-party video sources and controllers allowing for integration of video content from cameras and other devices.



Multichannel Devices

Encoders are available in 1-, 2- and 4-channel configurations. Multiviewers offer display of multiple signals in definable windows on a single monitor.



Control

Control options include a browser-based GUI, with no software to install, a CLI to support 3rd party controllers, and an API to create custom user interfaces.



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 assigned users can control distribution of content via PC or tablet.



Robust Administration

Zio offers automatic device discovery, group device control, and bandwidth management. Display devices can be grouped by area or function, allowing users to drag & drop content to a defined display group to distribute content into targeted areas. For example, a user can drag and drop a training video to a training display group or an announcement from the captain onto a ship-wide display group.



Mobility

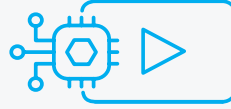
The *Zio* allows decoding a stream directly on an iOS or Android mobile device using the *Zio* mobile app.

System Components



Encoders/Decoders

Zio is available in single or multichannel configurations. These accommodate multiheaded or independent computer video signals. Power over Ethernet is also supported.



Multiviewers

Zio multiviewers decode visual content from multiple streams for simultaneous viewing on a single high-resolution display. Multiviewers can display local baseband as well as IP video.



Video Wall Processors

Zio 3000 wall processors allow streams to be decoded and viewed on arrays of up to four monitors, in windows at any size, anywhere. *Zio* 4000 wall processors support a mix of local baseband and IP video content on medium-to-large display walls.



Recording & Media Servers

Zio media servers record and stream video content. Features include concurrent recording/streaming and concurrent recording/playback along with full playback controls (stop, pause, play forward/reverse, variable speeds, jump to time). Storage capacity may be sized to need.



Mobile Apps

Supports Android & iOS phones and tablets allowing visuals to be pushed to designated mobile users (via push notifications) or pulled by authorized mobile users.

Zio Delivers

Wherever you are, the *Zio* platform has you covered. 24/7. That's what we mean when we say that *Zio* is an ideal enterprise-class solution for mission-critical applications.



Contact us to learn more

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