



Our Zio family of codecs provide robust networked video over LANs, WANs, and wireless networks.

## 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
- Smartphone capable

### Gateway Optimization - LANs and WANs

Zio's architecture is designed for LANs and WANs, allowing you to pull in content from anywhere and push content out to where it is needed.

### 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

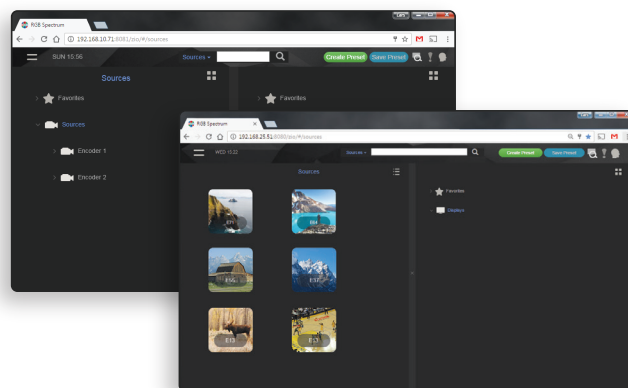
Choice of H.264 compression method and parameters allow optimization for the needs of any environment, e.g., high quality, low latency or low bandwidth. Where bandwidth is sufficient, Zio supports all I-frame compression for the highest quality and lowest latency.

### 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.

### 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.



*The Zio system offers an easy-to-use GUI and comprehensive administration tools.*

### Reliability

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

### 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.

### 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.

### Encryption

Industry standard AES encryption ensures your signals are protected. Content encrypted with High-Bandwidth Digital Content Protection (HDCP) can also be sent across the network and decoded.



# Zio RT Product Family

Zio endpoints are offered in models supporting up to 2K or up to 4K signals. A USB port is standard but can be removed through special order. A convection cooled enclosure permits a higher operating temperature than standard encoders and decoders.

## RT Series Encoder



The compact Zio S2000 encoder accepts signals up to 4K resolution over a locking HDMI connector with loop through capability. The S2000 encodes video, audio, and control signals using industry standard H.264 compression. Power over Ethernet (PoE) is provided to simplify installation.

## RT Series Decoder/Multiviewer



The compact Zio D2000-series includes flexible decoder and multiviewer models designed to work with the S2000 encoder and H.264/H.265 compliant devices. The D2022 multiviewer allows up to four 1080p streams, or equivalents to be decoded and viewed on a single display. Power over Ethernet (PoE) is provided to simplify installation.

## Specifications

|                           | S2000 RT-series Encoder                                                                                                                                  | D2000 RT-series Decoder/Multiviewer                                                                                                                                         |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inputs</b>             |                                                                                                                                                          |                                                                                                                                                                             |
| Type                      | HDMI                                                                                                                                                     | Video Stream                                                                                                                                                                |
| Connector                 | 1x HDMI 1.4b                                                                                                                                             | 1x RJ-45 (GigE)                                                                                                                                                             |
| Resolution                | S2002 RT: Up to 1920 x 1080 @60 Hz, 1920 x 1200 @60 Hz<br>S2004 RT: Up to 1920 x 1080 @60 Hz, 1920 x 1200 @60 Hz, 3840 x 2160 @30 Hz, 4096 x 2160 @24 Hz | D2002/2022 RT: Up to 1920 x 1080 @60 Hz, 1920 x 1200 @60 Hz<br>D2004 RT: Up to 1920 x 1080 @60 Hz, 1920 x 1200 @60 Hz, 3840 x 2160 @30 Hz, 4096 x 2160 @24 Hz               |
| Simultaneous Streams      | Multiple (depending on resolution)                                                                                                                       | D2002 RT: 1<br>D2022 RT: 16x SD, 4x FullHD resolution or equivalent                                                                                                         |
| Audio                     | Digital (embedded HDMI) or Analog (mono)                                                                                                                 | Digital (embedded HDMI) or Analog (mono)                                                                                                                                    |
| <b>Outputs</b>            |                                                                                                                                                          |                                                                                                                                                                             |
| Type                      | Video Stream, HDMI passthrough                                                                                                                           | HDMI                                                                                                                                                                        |
| Connector                 | 1x RJ-45, 1x HDMI 1.4b                                                                                                                                   | 1x HDMI 1.4b                                                                                                                                                                |
| Resolution                | Up to 1920 x 1080 @60 Hz, 1920 x 1200 @60 Hz, 3840 x 2160 @30 Hz, 4096 x 2160 @24 Hz                                                                     | Up to 1920 x 1080 @60 Hz, 1920 x 1200 @60 Hz, 3840 x 2160 @30 Hz, 4096 x 2160 @24 Hz                                                                                        |
| Audio                     | Digital (embedded HDMI) or Analog (mono)                                                                                                                 | Digital (embedded HDMI) or Analog (mono)                                                                                                                                    |
| <b>Control</b>            |                                                                                                                                                          |                                                                                                                                                                             |
| Network                   | Ethernet (TCP/IP, 10/100/1000 Base-T)                                                                                                                    | Ethernet (TCP/IP, 10/100/1000 Base-T)                                                                                                                                       |
| User Interface            | Browser-based HTML5: Windows, OSX, iOS and Android                                                                                                       | Browser-based HTML5: Windows, OSX, iOS and Android                                                                                                                          |
| <b>Physical</b>           |                                                                                                                                                          |                                                                                                                                                                             |
| Power                     | 100-240 VAC; 50/60 Hz, 10 W max                                                                                                                          | 100-240 VAC; 50/60 Hz, 10 W max                                                                                                                                             |
| Power over Ethernet (PoE) | PoE+ compliant                                                                                                                                           | PoE+ compliant                                                                                                                                                              |
| Size (w x h x d)          | 8.40" x 1.12" x 4.0" (213.5mm x 28.5mm x 101.5mm)                                                                                                        | 8.40" x 1.12" x 4.0" (213.5mm x 28.5mm x 101.5mm)                                                                                                                           |
| Operating Temperature     | 32 to 122°F (0 to 50°C) @ up to 1080p resolution,<br>32 to 104°F (0 to 40°C) @ up to 2160p resolution                                                    | D2002/2004 RT: 32 to 122°F (0 to 50°C) @ up to 1080p resolution,<br>32 to 104°F (0 to 40°C) @ up to 2160p resolution<br>D2022 RT: 32 to 104°F (0 to 40°C) @ all resolutions |
| Storage Temperature       | -4 to 158°F (-20 to 70°C)                                                                                                                                | -4 to 158°F (-20 to 70°C)                                                                                                                                                   |
| <b>Options</b>            |                                                                                                                                                          |                                                                                                                                                                             |
| Software                  | WebView                                                                                                                                                  | WebView                                                                                                                                                                     |
| Hardware                  | Rackmount kit, bulkhead mounting kit                                                                                                                     | Rackmount kit, bulkhead mounting kit                                                                                                                                        |

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