



# ZvBox<sup>®</sup> 150

## HD Video Distribution Made Easy

### FEATURES

#### A/V INPUTS

- Separate VGA and component video inputs
- Accepts 720 and 480 on component input
- Up to 1680x1050 on VGA
- Coax and optical digital audio connectors

#### HD MPEG2 ENCODING

- 720p encoding
- Encoding of PCM inputs, pass-through of encoded audio input
- Digital and visual watermarking for content theft prevention
- Extremely low-latency encoding for interactive applications

#### RF MODULATION / CHANNEL UPCONVERSION

- Digital cable (QAM) channel inserted onto any empty channel
- Built-in spectrum analyzer scans cable to find empty channels
- User-selectable broadcast channel from 2-141
- Supports STD, HRC, or IRC cable standards

### Share HD sources using existing COAX

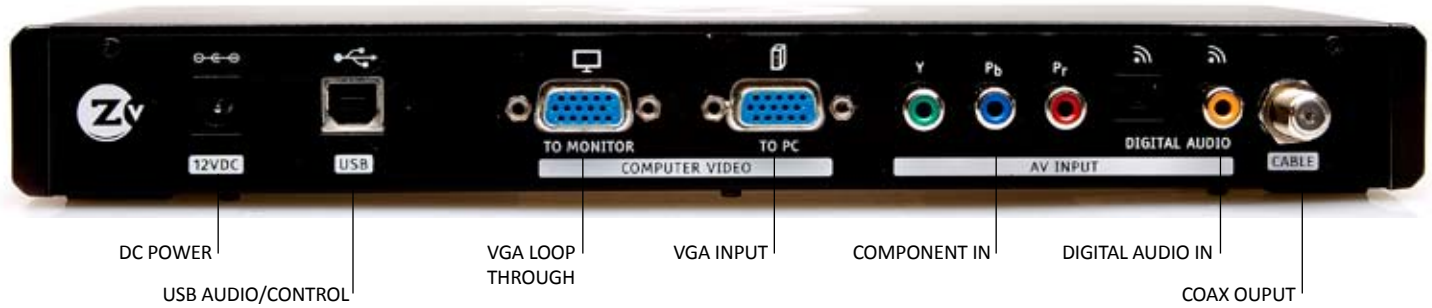
Create a private HDTV cable channel and share a cable box, DVR, DVD player, computer, or any other VGA or HD source among multiple HDTVs.



ZvBox<sup>®</sup> 150 front and rear view.

Based on the same encoding and modulation technology used by TV stations and cable companies, ZvBox<sup>®</sup> 150 turns the output of any VGA or HD source into an HDTV cable channel and broadcasts it over coax cabling to all connected HDTVs. To view the HD source, simply tune in your new Zv channel at any of the HDTVs. Compatibility with existing coax cabling means ZvBox<sup>®</sup> 150 is ideal for retrofit applications.

- **Many Applications** - Use ZvBox<sup>®</sup> 150 to:
  - Create a whole-house HD video distribution system
  - Deliver digital signage or share HD video to multiple displays in light commercial environments
- **Multiple Channels** - Multiple ZvBox<sup>®</sup> 150s can be combined to distribute many HD channels on-premise, on the same simple to deploy coax cabling.
- **Simple Installation** - Easily connects to new or existing coax distribution systems. Fast to configure using simple ZvCLI commands.
- **Stand-alone Operation** - Once configured, no computer or Internet connection required.
- **Works with Any VGA or HD Video Source** - Connect any computer, DVD player, DVR, or any other device with an HD video output to ZvBox<sup>®</sup> 150 and your new HDTV channel pours out onto the coax wiring.



## ZvBox® 150 Specifications

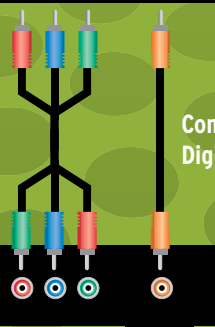
Video Input	Audio Encoder	General
<p><b>Computer VGA (Analog)</b>            HD-15 connector, buffered and looped            Resolutions Supported:            640x480, 720x480, 800x600,            1024x768, 1152x864, 1176x664,            1280x720, 1280x768, 1280x800,            1280x960, 1280x1024, 1360x768,            1440x900 at 60,70,72,75, 85 Hz            1680x1050 at 60 Hz</p> <p><b>Component Video (Y, Pr, Pb)</b>            RCA connectors            Resolutions Supported:            480, 720            59.94 frames / fields per second</p>	<p><b>Encoder Audio Profile</b>            AC-3            ATSC A/52</p> <p><b>Built-in RF Spectrum Analysis</b>  <b>Able to scan all 135 coax cable channels and report the usage of each</b>            Analog / Digital or Empty channel            STD / HRC / IRC detection</p> <p><b>Modulator / Upconverter</b>  <b>Modulation Types</b>            QAM 256 (ITU-T J83 Annex B)  <b>Cable Standard</b>            HRC, IRC or STD  <b>Frequency Range</b>            50 – 900 MHz (channels 2-141)  <b>Output Power</b>            +25 dBmV typical  <b>Output Level Adjust</b>            0 – 20 dB of attenuation in 5dB steps</p> <p><b>Control / Setup</b>  <b>Powerful command line interface - USB</b>  <b>Input Switching - IR or USB</b>  <b>Firmware Update - USB</b></p>	<p><b>Power</b> – 100VAC to 240VAC, 50/60 Hz, &lt;20watts            External Power Supply  <b>Cooling</b> – Convective. Cannot be stacked or put above other hot components.  <b>Mounting</b> – Counter or shelf  <b>Enclosure type</b> – Metal  <b>Enclosure dimensions</b>            1.38" H x 11.42" W x 4.02" D            35mm H x 290mm W x 102mm D  <b>Weight</b>            1.21 lbs (550 grams)  <b>Temperature/Humidity</b>            Operating +32° to +104°F (0° to +40°C) /            20% to 80%, non-condensing  <b>MTBF</b> – 30,000 hours  <b>Compliance</b>            Safety UL60065            FCC Class B  <b>Part number</b> – ZV150-NA  <b>Model name</b> – ZvBox 150  <b>Warranty</b> – 1 year</p>
<p><b>Audio Input</b>  <b>SPDIF Digital Audio</b>            Physical Connections            TOSLINK optical, RCA            Formats            48K bit PCM            AC-3 Pass-through</p>	<p><b>Video Encoder</b>  <b>Encoder Video Profile</b>            MPEG2 HD Profile 2: ISO13818-2            MP@HL (1280x720)  <b>Video Transport Bit Rate</b> 38.78 Mbps  <b>Average Encoding Data Rate</b> 20 Mbps  <b>Program Information</b> – Programmable  <b>Content Watermarking</b> – Digital and Visual</p>	

## Typical Application



ZvBox 150

HD Component



Component Video and Digital Audio Input\*

COAX Output



\* Additional VGA video and USB audio inputs included for optimal computer use