ZvPro600i Series

Composite/VGA 1080p Encoding/Modulation with IP Streaming

The ZvPro600i series encoder/modulator delivers uncompromising digital HD video distribution over your existing coax cabling from your component or VGA HD sources as well as simultaneous IP streaming with no performance compromise. The ZvPro600i series allows you to easily distribute content up to 1080p resolution to an unlimited number of displays over and RF network, using the TV’s built-in QAM tuner, or over an IP network to set-top-boxes connected to displays.

Manage ZvPro units can be managed locally through the color LCD screen or via an intuitive web-based, management interface — Maestro. Generate a looping signage channel with ZvShow, deliver messages to any screening using the built-in Emergency Alert System. The ZvPro supports Dolby Digital audio encoding and the included Closed Captioning makes your installation ADA compliant.

Superior Video Quality
- Full MPEG-2 implementation
- I, P, and B Frames
- Low latency
- Full motion estimation with a wide search range

Extensible Architecture
- Easy downloadable firmware updates
- Future enhancements provided regularly
- Emergency Alert System (EAS)

High Reliability
- Low-stress power system
- Full system instrumentation and monitoring
- Official international regulatory approval
- Forced air cooling for effective thermal control

Ease of Management
- Powerful, highly intuitive web interface
- On-site or remote management
- Configure/manage multiple units from
- Front Panel Display for local management

MODELS:

ZvPro610i-NA
1 x DIN input for component video/digital and analog audio or VGA video/analog audio up to 1080i/1080p. MPEG-2 QAM RF output.

ZvPro620i-NA
2 x DIN input for component video/digital and analog audio or VGA video/analog audio up to 1080i/1080p. MPEG-2 QAM RF output.
ZeeVee, Inc., headquartered in Littleton, Mass., and founded in 2007, is a leading global developer of digital technology and products for distributing audio-video content from any source or multiple sources to any number of displays. Manufactured in the U.S. and used primarily in commercial and corporate applications, ZeeVee products are employed worldwide by major organizations in education, government, hospitality, retail, sports, entertainment, broadcasting, healthcare, housing, energy and other industries. For more information visit [www.zeevee.com](http://www.zeevee.com)

### General

<table>
<thead>
<tr>
<th>Power: 100-240 VAC 50/60 Hz, 60W max. 30W Typical IEC 60320-C14</th>
<th>Cooling: Internal cooling fan, front inlet, rear exhaust</th>
<th>Temperature/Humidity: Operating +32 F0 to +113 F0 (0 C0 to +45 C0) / 10% to 80%, non-condensing</th>
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<td>MBTF: 62,000 hours</td>
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<tr>
<th>Compliance</th>
<th>Enclosure Dimensions: 8 in. [H] x 10 in. [W] x 1.75 in. [H] 20.32 cm [H] x 25.4 cm [W] x 4.445 cm [H]</th>
<th>Enclosure Type: Metal</th>
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<tr>
<td>FCC Class A, IEC60065, EN61000 (see manual 70-00031-00), CE, RoHS, RCM C-Tick</td>
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**Mounting:** Shelf mount flange or rack ears [ordered separately], 1 RU high

**Carton Dimensions (individual):** 2.75 in. [H] 14 in. [W] 12 in. [D] 6.985 cm [H] 35.56 cm [W] x 30.48 cm [D]

**Shipping Weight:** 5 lbs. [2.3 kg]

**Warranty:** 5 Years

**Vibration:** NSTA 1A in carton

### Input

**Component Video x2 or x1:**
- DIN connector HDbridge end, RCA connectors for HD source up to 1080

**Computer VGA (Analog) x2 or x1:**
- HD-15 connector, 75 Ohm RGB 0 to 0.7V, separate H and V sync

**Stereo Analog and Digital Audio x4 or x2**
- Line level input per channel DIN connector HDbridge end, RCA connector or digital SPDIF audio input. 3.5 mm pigtail connector with VGA

### Video Encoder

**Encoder Video Profile:** MPEG2 HD: ISO13818-2 MainProfile@HighLevel

**Traffic Shaping:** Variable Bit Rate

**Video Encoding Data Rates:** Variable, 10 Mbs - 24 Mbs per channel

**Average Encoding Data Rate:** 18 Mbs per channel

**Encoding Latency:** Programmable 200 msec to 400 msec

**Color Profile:** 4:2:0

**Encoder Audio Profile:** ATSC A/52, Dolby® Digital (AC-3)

**Video, Audio PID:** Programmable starting value

**Program Information:** Programmable program name, EIT

**GOP Size:** 16

### Modulator/Upverter

**Modulation Types:**
- QAM 256 and 64 [ITU-T J83 Annex B] Interleaving modes: [64,2] only

**Cable Standard:** HRC, IRC or STD

**Frequency Range:** Single or one paired, frequency agile QAM RF CATV channels 2-135
  - 2kHz resolution
  - +/- 30 ppm accuracy
  - +/- 35 ppm stability

**Output Power:** +45 dBmV typical

**Output Level Adjust:** 25 - 45 dBmV in 1dBmV steps

**Spectral Tilt:** <= 1 dB over 6 MHz typical

**MER:** > 38 dB typical

### Control Setup

**Network Interface**
- 10/100 Mb Ethernet via RJ45 connection
- IP address via DHCP or set by user
- HTML/JavaScript served web interface for easy configuration
- Telnet connection for CLI scripting
- Easy firmware updates
- All settings saved in NV storage

**Front Panel Color Display**
- Quickly obtain status at a glance, basic configurations, software revisions and updates