Encrypted Stream Player
ESP2000

- HDMI video decoder with fully managed private encrypted network over existing IP infrastructure
- Stand-alone IP Decoder with B-Crypt Decryption and Echo Transport Stream

Troll’s ESP2000 is designed to decrypt IP video transport streams for display. It provides the ability to receive encrypted unicast or multi-cast ethernet video sources and display them in full HD resolution 1080/60 via HDMI or down converted to composite video signals.

Each ESP includes unique decryption keys that enable secure video to be decoded and displayed over private or public networks. Using ESP’s echo function enables secure or decrypted video transport streams to be unicast or multi-cast to other IP addresses. This Echo capability allows customers to use ESP to manage video distribution and allow access to authorized users, network groups or wider audiences.

- Decrypt secure IP video transport streams for display
- Support for unique decryption keys
- User selectable resolutions up to 1080/60
- Echo functions to distribute secure video to other nodes
- Support for unicast UDP, RTP or multi-cast reception
- Support for unicast or multi-cast echo retransmission
- Optional DVR
## ESP2000 Encrypted Stream Player

### Receiver Unicast and Multi-Cast IP Transport Streams

#### ESP2000 Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Processor</td>
<td>Dual-Core Intel</td>
</tr>
<tr>
<td>OS</td>
<td>Linux</td>
</tr>
<tr>
<td>Video Input</td>
<td>Ethernet 10/100</td>
</tr>
<tr>
<td>Video Output</td>
<td>Output Resolution: Up to 1080P (user selectable)</td>
</tr>
<tr>
<td>Input Power</td>
<td>12 VDC @ 2A</td>
</tr>
<tr>
<td>120-240 VAC with AC/DC converter</td>
<td></td>
</tr>
<tr>
<td>Output Type</td>
<td>HDMI and simultaneous Composite (RCA Video, Audio)</td>
</tr>
<tr>
<td>Control</td>
<td>IR remote (included with external IR) Optional Keyboard</td>
</tr>
<tr>
<td>Decryption</td>
<td>Supports full decryption – managed from VNS or local</td>
</tr>
<tr>
<td>Dimensions</td>
<td>8.50&quot;W x 6.95&quot;L x 1.52&quot;H</td>
</tr>
<tr>
<td>Weight</td>
<td>1.6lbs</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-20C to + 50C</td>
</tr>
<tr>
<td>Communication Options</td>
<td>IR remote included</td>
</tr>
<tr>
<td></td>
<td>Keyboard not included</td>
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<tr>
<td></td>
<td>Remote control</td>
</tr>
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<td>via Troll Cyclops Software</td>
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### Rear Panel

- 12 VDC
- ETHERNET
- USB
- HDMI
- SPDIF
- EXT IR
- L
- R
- V

### Diagram

- Encrypted Video Transport Stream
- Troll's VNS4000 Video Network Server
- Stabilized Camera
- IP Camera
- Unicast or Multi-cast Echo
- Encrypted Stream Players
- HDMI Decoding for Display
- Other Users

#### Technical Details

- Support for full decryption managed from VNS or local
- IR remote included
- Keyboard not included
- Remote control via Troll Cyclops Software
- Ethernet 10/100
- Output Resolution: Up to 1080P (user selectable)
- 12 VDC @ 2A
- 120-240 VAC with AC/DC converter
- HDMI and simultaneous Composite (RCA Video, Audio)