CONVERSION AT THE NETWORK EDGE TO CONNECT YOUR BASEBAND SDI AND HDMI EQUIPMENT TO ST2110 NETWORKS

Newt adapts to our rapidly changing IP environments, bridging Quad-SDI & HDMI2.0 interfaces to JT-NM Tested ST2110 media streams. Newt is fluent in open control protocols such as NMOS, EmBER+, and DashBoard, giving you the freedom to throw it down in the IP environment of your choice.

Integrating NEWT into IP networks is simplified with access to internal diagnostics, network intelligence, and network-adapting synchronization.

NEWT provides performance and reliability for signal conversion and processing of HD and UHD video, all in a compact form factor. Simultaneously view four independent videos on a single HDMI 2.0 output using the QUAD-SPLIT function and monitor 2SI or SQD streams with gearboxing support.

VIEW EVERYTHING
- ST2110 to SDI and HDMI Conversion
- HD and UHD Support
- Quad-split Display
- Network Metrics and Diagnostics
- JT-NM Tested Interoperability
- Ancillary support including closed captions & timecode

WORK EVERYWHERE
- NMOS and Ember+ Control
- IGMPv3 with Source Specific Multicast
- Dashboard Setup and Monitoring
- Compact form factor
- Flexible Mounting Options

DO (ALMOST) ANYTHING
- Connect any IP flow to multiple outputs
- Built-in audio router for audio to SDI mapping
- Audio channel shuffling
- SQD and 2SI Gear-boxing
- Stream Redundancy
- ST 2110-40 ANC Embedding into SDI
• LCD displays are often more than a few meters apart
• Run SDI coax to the monitor and use short HDMI connectors at the display
• Avoid running long distances with cumbersome & expensive HDMI cables
• Fasten SDI/HDMI micro-converters to each LCD monitor with USB power from display
**NEWT IPX | SPECIFICATIONS**

**TRANSPORT FEATURES**
- SMPTE ST 2110 suite, including:
  - -10, System Timing and Definitions
  - -20, Uncompressed Active Video
  - -21, narrow sender & wide receiver
  - -30, PCM Digital Audio, Conformance Level A & B & C
  - -40, Ancillary Data
- SMPTE ST 2022-7 – Seamless Protection Switching
- 4 video streams up to 1080p / 1 video stream up to 2160p50 with deep packet buffers
- 64+64 audio streams with WAN buffering
- 16 audio channels embed/extract per SDI interface, with shuffle
- 8 audio channels per HDMI2.0 interface, with shuffle
- IGMPv3 with Source Specific Multicast (SSM) support
- NMOS IS-04/IS-05, and Ember+ Compliant

**MECHANICAL / ENVIRONMENTAL**
- VESA, desk, pillar and other mounting via optional brackets
- Optional rack tray provides secure placement of three NEWT, bricks and cable management
- Studio quiet operation
- Operating: 0ºC to +40ºC

<table>
<thead>
<tr>
<th>ORDERING CODE</th>
<th>NEWT ACCESSORIES</th>
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<tbody>
<tr>
<td>NEWT-IPX-PKG</td>
<td>Newt ST 2110 / SDI and HDMI converter. Supports ST 2110 4xSDI, ST 2110 HDMI 2.0, ST 2110/SDI 2×2 bidirectional mode, and ST 2110 2xSDI with ANC.</td>
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<tr>
<td>SFP-10GBASE-SR</td>
<td>SFP+ Module, 10G Ethernet, 300m reach, Multimode fiber</td>
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<tr>
<td>SFP-10GBASE-LR</td>
<td>SFP+ Module, 10G Ethernet, 10km reach, Single mode fiber</td>
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<tr>
<td>GEAR-SHELF</td>
<td>1RU rackmount shelf for Newt and Iggy</td>
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<tr>
<td>GEAR-BRKT-EARS</td>
<td>“Ear” brackets for Newt and Iggy</td>
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<tr>
<td>GEAR-VESA100</td>
<td>VESA 100mm bracket mount kit for Newt and Iggy</td>
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**MOUNTING EARS**
(E.G. UNDER DESK)

**VESPA BRACKETS**
(E.G. BACK OF MONITOR)

**TIE WRAP**

**RACK SHELF**

[Image of Newt IPX equipment with specifications and accessories listed]