



ST2110 TO SDI & HDMI CONVERTER

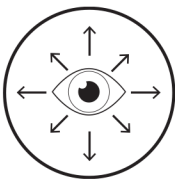


CONVERSION AT THE NETWORK EDGE TO CONNECT YOUR BASEBAND SDI AND HDMI EQUIPMENT TO ST2110 NETWORKS

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



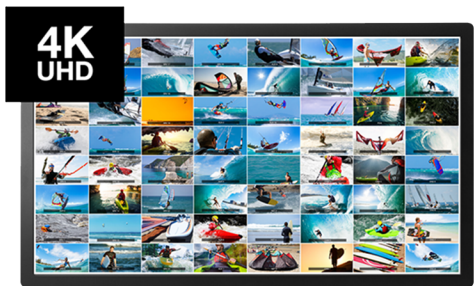
DO (ALMOST) ANYTHING

- 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



Use Case #

- 1 UHD over IP to HDMI2.0 Monitoring
- 2 2-in/2-out SDI/IP Converter
- 3 IP to 4x3G-SDI Converter
- 4 IP to 2x3G-SDI with Embedded ANC



1 UHD Monitor Wall

HDMI (UHD)

3 3G-SDI Positions

4 Embedded ANC

2 TRANSMIT & RECEIVE

WELCOME TO YOUR NEWS AT 9.
I'M LEEANN SUTTON. FIRST UP
TODAY RICHARD ETCHBERGER,
WHO WAS POSTED IN LAOS
DURING THE VIETNAM WAR, WILL
BE AWARDED THE MILITARY'S
HIGHEST AWARD FOR BRAVERY



3G-SDI



Plane A and B
(Red and Blue)
for hitless merge



3G-SDI



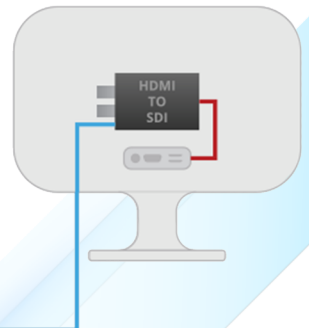
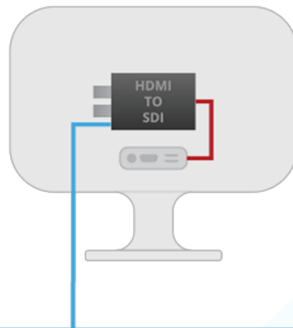
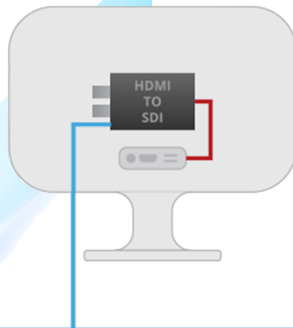
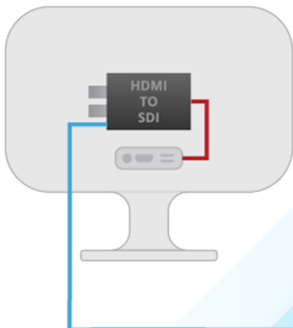
HD/UHD
Multiviewer
Source

Network Plane A (Red)

Network Plane B (Blue)

ST 2022-7
single-stream UHD,
up to 4kp50

2x10GE for quad-stream
UHD, up to 4kp60,
no redundancy



- 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: 0°C to +40°C

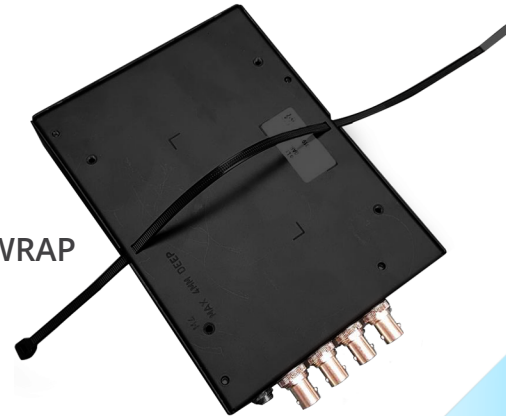
MOUNTING EARS
(E.G. UNDER DESK)



VESA BRACKETS
(E.G. BACK OF MONITOR)

ORDERING CODE	NEWT ACCESSORIES
NEWT-IPX-PKG	Newt ST 2110 / SDI and HDMI converter. Supports ST 2110 4xSDI, ST 2110 HDMI 2.0, ST 2110/SDI 2x2 bidirectional mode, and ST 2110 2xSDI with ANC.
SFP-10GBASE-SR	SFP+ Module, 10G Ethernet, 300m reach, Multimode fiber
SFP-10GBASE-LR	SFP+ Module, 10G Ethernet, 10km reach, Single mode fiber
GEAR-SHELF	1RU rackmount shelf for Newt and Iggy
GEAR-BRKT-EARS	"Ear" brackets for Newt and Iggy
GEAR-VESA100	VESA 100mm bracket mount kit for Newt and Iggy

TIE WRAP



RACK SHELF

