



Compact IP Gear  
that adapts to your  
environment.



## NEWT | COMPACT UHD-OVER-IP SDI/HDMI SIGNAL CONVERSION

Newt adapts to our rapidly changing IP environments, quietly bridging Quad-SDI & HDMI2.0 interfaces to JT-NM Tested ST2110 media streams. Newt is fluent in many open control protocols such as NMOS, EmBER+, and DashBoard (to name but a few), thus giving you the freedom to throw this little guy down into the IP environment of your choice.



### KEY BENEFITS

#### COMPACT & ROBUST UHD SIGNAL CONVERSION & PROCESSING

- Signal conversion and processing of many formats from HD up to UHD at 2160p50, and with gearboxing up to 2160p59.
- QUAD-SPLIT for viewing four independent videos at once on a single HDMI 2.0 output.
- SQD and 2SI GEARBOXING quad-streams to UHD.



#### FLEXIBLE AUDIO AND VIDEO MAPPING AND SHUFFLING

Newt adapts to your network so you can map any channel, anywhere.



#### OPEN CONTROL

Gives you the freedom to run Newt from our DashBoard™ control system, and/or seamlessly from many 3rd-party control systems (e.g. VSM, Convergent, Magellan, ...)



#### NEWT GOES ANYWHERE

Flexible mounting options enable Newt to scale any wall, zip-tie to a post, hide under a desk, behind a display, or for three of them to sit securely on an optional rack shelf.



#### BENCHMARK INTEROPERABILITY

Ross Video's SMPTE ST 2110 technology is amongst the most mature and widely deployed in the industry, both directly in Ross products and also through its OEM & Developer Solutions program. We are committed to ensuring that your investment in Ross products will interoperate with third parties.



#### NEWT IS THE STRONG SILENT TYPE

Designed with studio applications in mind, and, unlike other IP conversion products with fans that scream loudly, you'll barely hear a purr from Newt.

# 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
- 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

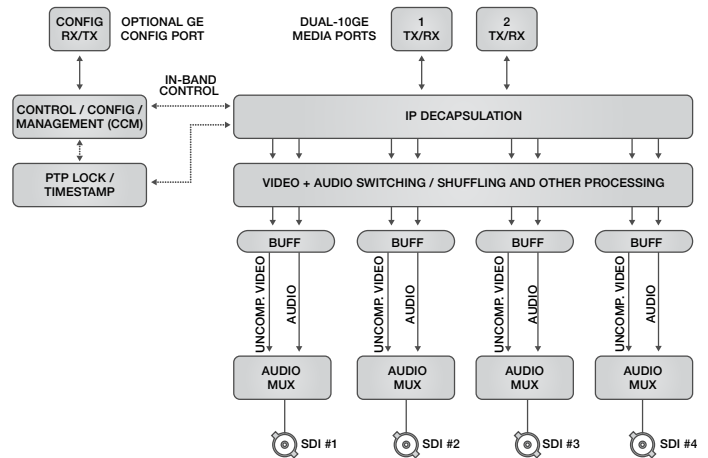
## MECHANICAL / ENVIRONMENTAL

- 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

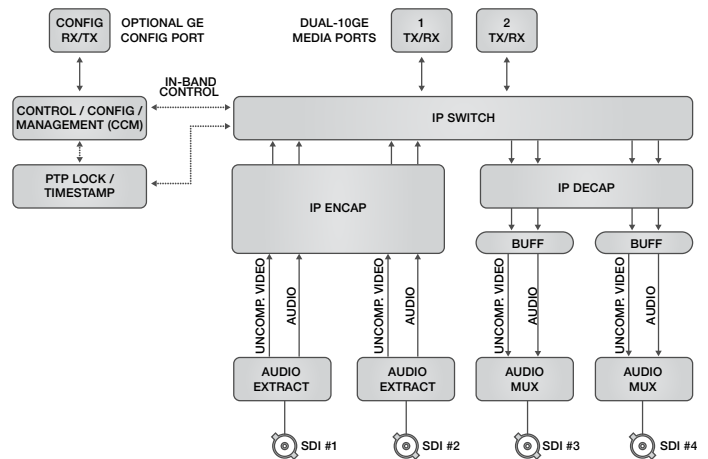
MODEL #	DESCRIPTION
NEWT-IPR-3G-4S	IP to 4x3G-SDI converter
NEWT-IPR-UHD-H	UHD-over-IP to HDMI 2.0 converter, including single-stream 2160p50 UHD and 2SI quad-stream 2160p50 UHD
NEWT-IPX-3G-4S	2-in/2-out SDI/IP converter
NEWT-IPR-PKG	<b>Bundle:</b> NEWT-IPR-4S and NEWT-IPR-UHD-H
NEWT-IPX-PKG	<b>Bundle:</b> NEWT-IPX-4S, NEWT-IPR-4S, NEWT-IPR-UHD-H
NEWT-IPR-3G-4S-UPG	License to upgrade purchased Newt to include NEWT-IPR-3G-4S function
NEWT-IPR-UHD-H-UPG	License to upgrade purchased Newt to include NEWT-IPX-UHD-H function
NEWT-IPX-3G-4S-UPG	License to upgrade purchased Newt to include NEWT-IPX-3G-4S function
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

See [www.rossvideo.com/newt](http://www.rossvideo.com/newt) for ordering options.

## NEWT-IPR-3G-S | IP to Quad-SDI



## NEWT-IPX-3G-4S | 2-in/2-out SDI/IP Gateway



## NEWT-IPR-UHD-H | IP to HDMI 2.0

