

# DaySequerra

## UpMix Surround Audio Decoder



DTS Neural Surround™ UpMix was ranked #1 in double-blind listening tests, outperforming all other surround decoders in channel discreteness, envelopment, and original spatial location.

The DTS® UpMix transforms any stereo signal into a surround sound experience. Audio that was encoded using the DTS® DownMix algorithm can be restored with the correct information in each of the 5.1 surround channels.

- Stereo to any channel configuration (2.1, 3.1, 4.1, 5.1, 6.1 or 7.1)
- Great compatibility with all stereo signals(LR, LtRt, LoRo, ProLogic, ProLogic II or SRS Circle Surround)
- Adaptive filters that eliminate "dialog leakage" traditionally found in matrix audio decoders
- End-to-end surround delivery system when combined with the DTS Neural Surround™ DownMix



Shown with Balanced Digital AES option

## UpMix Technical Specifications

|                          |  |
|--------------------------|--|
| Inputs                   | - 3 AES-3 Inputs (2.0 and 5.1)<br>- 1 AES-3 or AES-11 SYNC   |
| Outputs                  | - 4 AES-3 Outputs (5.1 and 7.1)<br>- 1 AES-3 or AES-11 SYNC pass-through   |
| Digital Inputs & Outputs | - AES/EBU, 75 ohm, unbalanced BNC<br>- Balanced Digital AES via DB-25 TASCAM format cable with option  |
| Sample Rate              | - 32kHz to 96kHz   |
| Latency                  | - < 22 msec  |
| Dynamic Range            | - 140dB, DR any input to any output; 135dB, any input to any output [1]  |
| GPIO                     | - DB-9 female connector 0-5V TTL   |
| Ethernet                 | - 10/100-BASE-T for field software updates   |
| Dimensions and Weight    | - 1 RU, 19" (482mm) W x 8" (203mm) L x 1.75" (44mm) H; 7 lb (3.2kg)  |
| Environmental            | - Convection cooled. Operating: 0 to 60 degrees C  |
| Regulatory               | - North America: Designed to comply with FCC Class A, Part 15<br>- Europe: LV Directive 73/23/EEC and EMC Directive 89/336/EEC<br>CE Mark (EN 55022 Class A, EN55024); RoHS and WEEE compliance. |
| Power Supply             | - Auto-sensing 100-240V, 50-60Hz<br>- EMI suppressed male IEC320 connector   |
| Option                   | - O1: Balanced Digital AES via TASCAM interface  |
| Applications Include:    | Ingest, Head - End, Uplinks, Post Production Facilities and Quality Control  |
| Notes                    | [1] Audio measurement made using a 0dBfs 1kHz sine wave sampled at 48kHz, 20-20kHz A-weighted  |