

The HDR power processor for premium content.
With IP and SDI in one unit.



UHD has brought more pixels. The next logical step is not additional pixels but better pixels that will give a picture with more definition, improved colour reproduction and a higher dynamic range. This is why the term HDR (high dynamic range) has been challenging that of UHD for prominence in new TV set advertisements and with content providers.

Going from one colour space to another and dealing with different dynamic range systems is challenging. Fortunately, there is the HDR conversion option in Neuron to deal with these challenges.

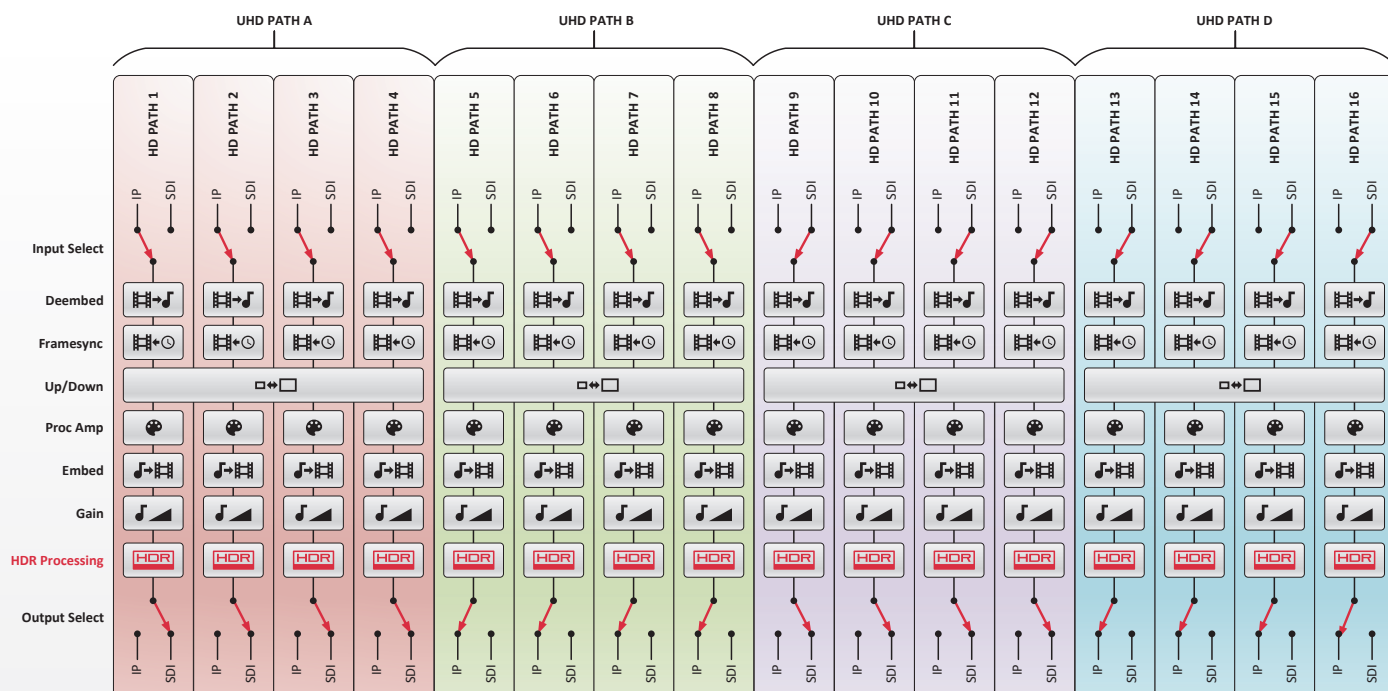
HDR processing in addition to UHD up/down conversion

The HDR processors can be added to the standard 16 HD or 4 UHD processing paths which additionally offer frame syncs, video delay, up/down/cross conversion from and to UHD, Proc amps, de-embedding & embedding, audio gain & shuffle and more. This means you can fully process 16 HD channels or 4 UHD channels, including HDR conversion, on a single Neuron module (ow which two can fit in a 1 RU frame).

The HDR processors can convert any HDR content from BT.2100-PQ, BT.2100-HLG or Slog3 into a BT.1886/BT.709 SDR version. This conversion is perfectly reversible (SDR to HDR) so that the resulting video is visually identical to the original source.

KEY FEATURES:

- 16 HDR ↔ SDR processors (4 per UHD channel)
- 16 internal HD or 4 UHD channels (4Q or 2SI, 12G supported)
- Audio embedding and deembedding
- 16 Framesyncs with delay and proc amps
- Up/down/cross conversion from and to UHD



Example configuration of an NPH1600. 4 HD paths can be combined for UHD up, down or cross conversion.