

4K (UHD) Down Converter

The IF4K-DNC-A is a 12G-SDI compatible, cost-effective processor, equipped with a 4K (UHD) to HD down converter that provides simultaneous 12G and HD output. The unit also handles frame synchronization, color correction, HLG to SDR conversion, and supports wide color gamut as well as 12G and HD output. The IF4K-DNC-A supports AES and analog audio output and is ideal for audio monitoring.

FRONT



REAR



BENEFITS

HIGH QUALITY VIDEO PROCESSING

High quality 4K to HD down conversion for 12G-SDI video signals, with both SDI and HDMI outputs.

FLEXIBLE FORMAT DELIVERY

Cutting edge 4K conversion with the ability to provide both UHD/HDR and HD/SDR outputs simultaneously.

SIMPLE TO USE

Easy to configure and operate via local Front Panel with video confidence monitor, remote panel, or Web interface.

WIDE RANGE OF TOOLS

Simultaneous HDMI down converted output for seamless video monitoring integration.

FEATURES

- 12G/6G-SDI, Quad Link 3G/HD-SDI, Dual Link 3G/HD-SDI, Single Link 3G/HD-SDI and HDMI inputs. Auto-detected input signals.
- Supports 59.94Hz, 60Hz, 50Hz, 30Hz, 29.97Hz, 25Hz for 4K 3840 x 2160 input and 59.94Hz, 60Hz, 50Hz for HD 1920 x 1080 input.
- 12G/6G-SDI x 2, HD-SDI x 2, HDMI x 2 video outputs.
- AES x 8 and analog audio x 2 (pair) audio outputs.
- Frame synchronization and color correction.
- HDR (HLG)/SDR conversion and wide color gamut (ITU-R BT.2020/709) conversion support. Enables simultaneous output of 12G-SDI HLG/ITU-R BT.2020 and HD-SDI SDR/ITU-R BT.709.
- HD video support from all outputs.
- HDMI input/output UHD/HD. HDR metadata inserted.
- Can be used as a frame synchronizer for HDMI to SDI conversion and 4K UHD/HD to HDMI converter for 4K UHD/HD monitoring.
- Adjustable audio delay.
- Timecode passed.
- Web server enables settings from PC or tablet.
- Video condense monitor on front panel display.
- Payload ID (SMPTE-352) supported.

IF4K-REMOTE

- Offers connection to IF4K-DNC-A for remote control of:
 - HDR (HLG)/SDR conversion.
 - Select input signals.
 - Audio delay settings



SPECIFICATION

Connections

Inputs

SDI	1 x 12G/6G, 1 x Quad Link 3G, 2 x 1.5G 75Ω BNC
HDMI	1 x 2160p, 1080i
Reference	Tri-sync or Bi-sync reference input with loop-through 75Ω BNC

Outputs

SDI	2 x 12G/6G, 2 x 1.5G 75Ω BNC
HDMI	2 x 2160p, 1080i
AES	1-8 Unbalanced 75Ω BNC
Analogue	Pair 1-2 25D

Control

Ethernet	10/100 BaseT Ethernet RJ45
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SPECIFICATION

Controls

Video Convert
Downconversion, Frame Synchronisation, HDR (HLG to SDR Conversion)

Colour Processing
ITU-R BT.2020/ITU-R BT.709, conversion selectable gamma (2.0/2.4)

Video Processing
Level Y Gain, Black Level, Chroma Gain
RGB Colour Corrector RGB Gain, Lift, Gamma (SDR)

Supported Video Standards

12G-SDI	2160/60p, 2160/59.94p, 2160/50p (Level-A, 2SI)
6G-SDI	2160/30p, 2160/29.97p, 2160/25p (Single Link 2SI)
Quad Link 3G-SDI	2160/60p, 2160/59.94p, 2160/50p (Level-A/B, 2SI/SQD)
HD-SDI	1080/60i, 1080/59.94i, 1080/50i
HDMI	2160/60p, 2160/59.94p, 2160/50p, 2160/30p, 2160/29.97p, 2160/25p, 1080/60i, 1080/59.94i, 1080/50i

Mechanical

Dimensions	430 (W) x 44 (H) x 170(D) mm
Weight	2.3Kg approx
Temperature / humidity	0°C to 40°C / 30% to 90% (no condensation)
Power Consumption	100 V AC to 240 V AC, 20W Max



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ISO 9001 and 14001 certified
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