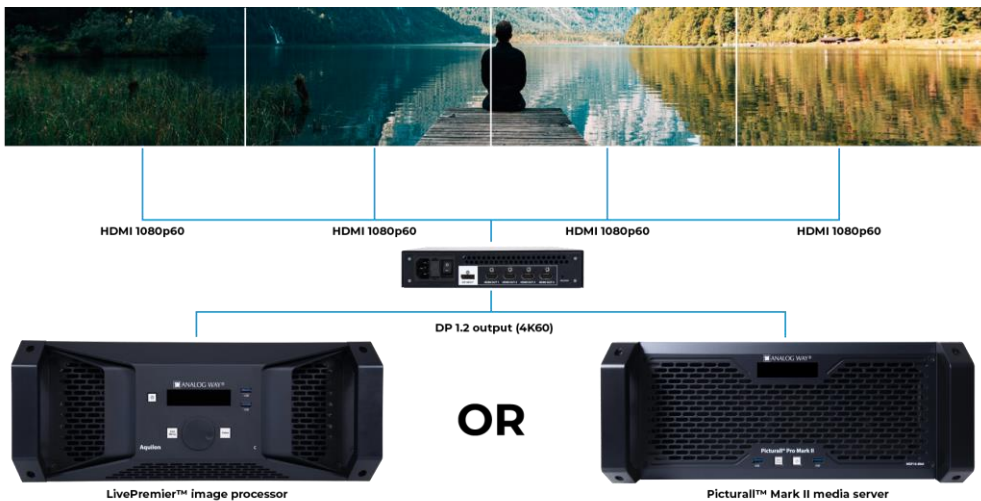# DPH104
Ref. DPH104

4K image processor for LivePremier™ presentation systems and Picturall Mark II media servers. Easily drive four independent Full HD displays from one single 4K60 signal.
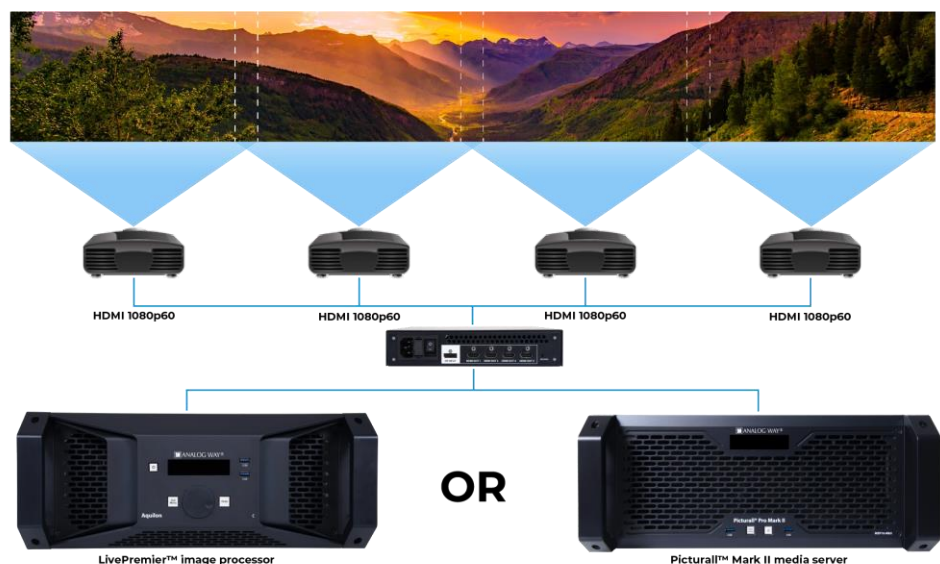

Presentation

DPH104 is a high-performance latency-free 4K image processor able to convert one 4K DisplayPort output from a **LivePremier™ presentation system** or a **Picturall Mark II media server** to four independent 1080p HDMI outputs. All the outputs on the DPH104 can be used with native resolution just like they were directly connected to the source system. DPH104 does not require software or configuration, and guarantee an easy and trouble-free installation experience. DPH104 is a perfect fit for numerous video wall and soft-edge blending applications. You can use multiple DPH104 devices to easily create even larger display solutions.

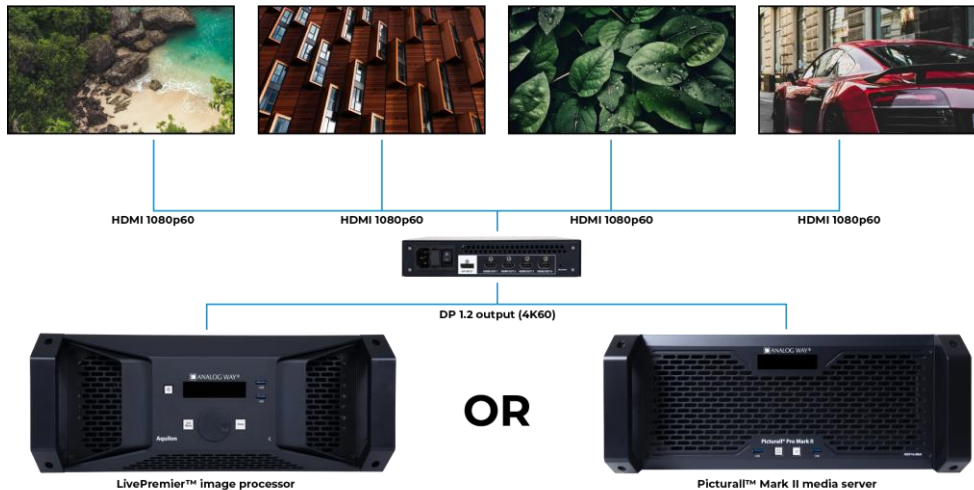### Example 1: one 8K x 1K@60Hz input to four 1080p LED wall processors

HDMI 1080p60   HDMI 1080p60   HDMI 1080p60   HDMI 1080p60

DP 1.2 output (4K60)

OR

LivePremier™ image processor   Picturall™ Mark II media server

Example 2: one 8K x 1K@60Hz input to four 1080p projectors (*)

HDMI 1080p60   HDMI 1080p60   HDMI 1080p60   HDMI 1080p60

OR

LivePremier™ image processor   Picturall™ Mark II media server

(*) soft-edge curve adjustments to be achieved with the projectors

Example 3: one 8K x 1K@60Hz input (with different contents) to four different screens

HDMI 1080p60   HDMI 1080p60   HDMI 1080p60   HDMI 1080p60

DP 1.2 output (4K60)

LivePremier™ image processor

OR

Picturall™ Mark II media server

Key Features

Compatible with the LivePremier and Picturall series

Ruggedized metal housing (1RU half rack)

One DisplayPort input, four HDMI outputs

HDCP 2.2 and 1.4 support on input and outputs

Zero latency processing

No software, no configuration

Splicer mode: convert one 8Kx1K input to four full HD outputs

Splitter mode: distribute one full HD input to four full HD outputs or one 4K UHD input to four 4K UHD outputs

OSD status for easy system troubleshooting

HDR compliant

Multichannel audio with 2 routing modes

Status LEDs for easy troubleshooting

Mounting kit included to accommodate one or two DPH104 devices in one rack space

Half-rack blanking plate included for unused space

Dimension (in Rack Units - RU)
▶ 1RU

Dimensions
▶ W 8.64'' x H 1.73'' x D 7.81''
▶ L 219.5 mm x H 44 mm x P 198.5 mm

Weight without accessories
▶ 1.7 kg / 3.75 lbs

Operating conditions
▶ Temperature: 0 to 40°C (32 to 104°F)
▶ Humidity: 10% to 80%, non-condensing

Noise (@1,6m height @25°C)
▶ Front: 35 DBa@1m
▶ Rear: 35 DBa@1m

Thermal dissipation
▶ 102 BTU/hr

Warranty
3-year warranty on parts and labor back to factory

Power supply
▶ 100-240 VAC 50/60Hz 2.2A
▶ Fuse cartridge T2,5A 250VAC 5x20mm
▶ Max consumption: 30 W

Safety Compliance
▶ IEC/UL/EN 62368-1
▶ CSA22.2#62368-1
▶ (UL Listed E359143)

EMC & Environnemental Compliance
▶ EN55032, EB55024, EN61000, FCC part15, ICES

Supplied with
▶ 1 x Power supply cord
▶ 1 x Rackmount kit
▶ 1 x Quick start guide including safety instructions

ⓘ Specifications subject to change without prior notice

Technical Specifications

INPUT
1x DisplayPort 1.2

OUTPUTS
4x HDMI 2.0

SLICER MODE
1x 7680x1080 (Analog Way custom timing) to 4x 1920x1080
Supported rates: 24Hz, 25Hz, 30Hz, 50Hz, 59.94Hz and 60Hz

Or 1x 7680x1200 (Analog Way custom timing) to 4x 1920x1200
Supported rates: 24Hz, 25Hz, 30Hz, 50Hz, 59.94Hz and 60Hz

Or 1x 3840x2160 (Analog Way custom timing) to 2x 1920x2160
Supported rates: 25Hz, 30Hz, 50Hz, 59.94Hz and 60Hz

Supported chroma subsampling: 4:4:4, 4:2:2 and 4:2:0

Supported color depth: 8 bit and 10 bit

SPLITTER MODE
1x 1920x1080 to 4x 1920x1080

Or 1x 3840x2160 vers 4x 3840x2160

Supported rates: 24Hz, 25Hz, 30Hz, 50Hz, 59.94Hz and 60Hz

Supported chroma subsampling: 4:4:4, 4:2:2 and 4:2:0

Supported color depth: 8 /10 bits (for 3840x2160 resolution: 10 bits at 60Hz supported with 4:2:2 or 4:2:0 chroma subsampling only)

PROCESSING
BT.709 and BT.2020 color spaces support

HDR compliant with HDR10 and HLG

Compatible with HDCP 1.4 and HDCP 2.2

AUDIO
Multichannel audio (PCM, up to 8 channels)

Mirror Mode: input audio duplicated to all outputs

Split Mode: input channels spread to outputs (for LivePremier only)

OTHER FEATURES
Firmware updates supported via USB

Front panel status LEDs (system, HDCP, input and output signal)

Output signal status can be displayed on each output (OSD) for easy troubleshooting