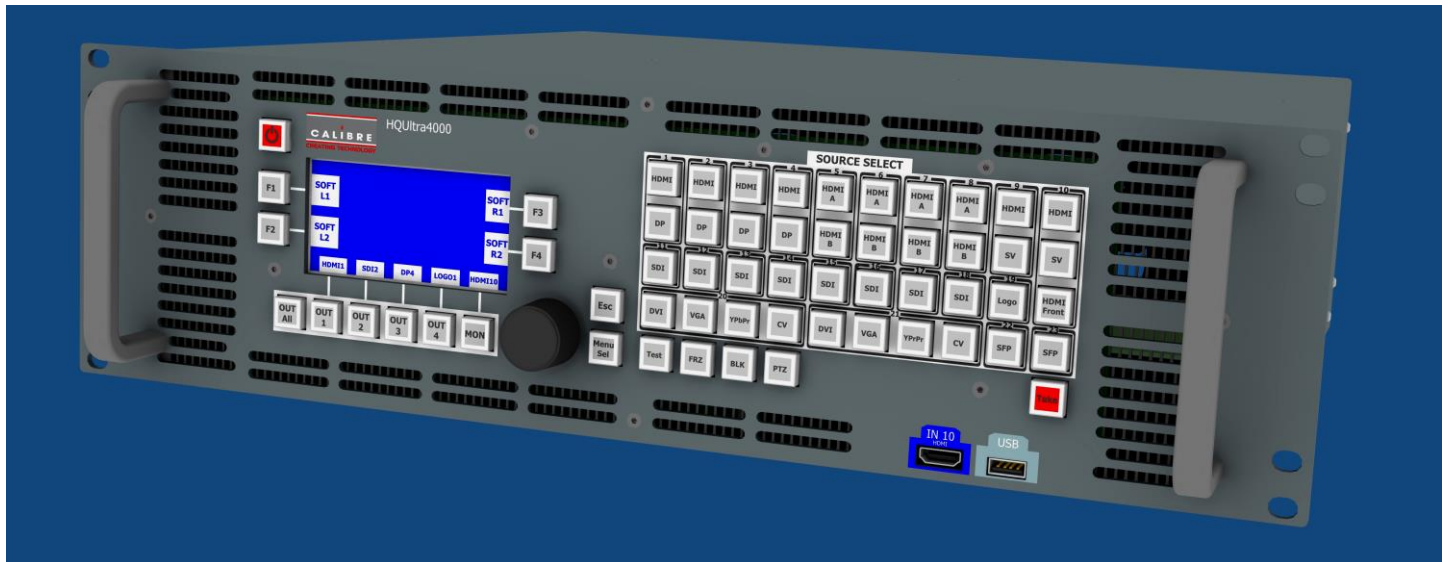


Preliminary

HQUltra4000

HQUltra 4K Seamless Scaler-Switchers, up to 40 Sources
4x 4K50/60 4:4:4 Programme Outputs + 1x Confidence Monitor



The HQUltra4000 range of products are true seamless scaler-switchers able to support up to 40 sources grouped into 23 discrete input channels, 4 programme outputs plus an independent confidence monitor output.

Perfect 4K/UHD scaling is provided by Calibre's best-in-class low-latency proprietary HQUltra technology with all programme outputs which simultaneously support up to 4K50/60 4:4:4 RGB formats.

HQUltra4000 includes custom LED videowall menus that allow users to quickly and pixel accurately size any input source on the LED videowall.

HQUltra4000 models can also drive projectors, LCDs and all other display devices in any fixed installation or rental/staging environment.

HQUltra4000 is the perfect solution for connecting to the new extremely large LED and flat panel videowalls. The scaled image can be distributed across all four outputs, perfectly aligned and synchronized, allowing the HQUltra4000 to drive a programme surface area up to true 8K/Quad-UHD. That is an incredible 8192x4340 pixel area.

HQUltra4000 is also able to be the matrix switching and control hub for a multi-location installation with all four outputs able to independently run differently scaled content onto four displays each up to 4K resolution.

- Up to 8K Total Programme Output Pixel Area. Over 44 Megapixel total output area with 90GB/s output processing bandwidth
- Perfect scaling with Calibre's HQUltra low-latency 4K best-in-class proprietary scaling algorithms
- Seamless switching between input channels with dissolve and fade transitions
- HQUltraFast proprietary typical 0.25 seconds input channel switching technology in matrix switching mode of operation
- LED Videowall Optimized Scaling with per-edge pixel-accurate custom sizing
- Front panel jog-wheel and LCD display for fast easy set-up in the field
- 4x 4K50/60 4:4:4 Programme Output Channels for up to 8K output area, usable individually for separate displays or together as an 8K videowall
- 1x Confidence Monitor Output Channel
- Genlock or Source Lock for in-camera & broadcast applications
- Remote control via webserver or simple API
- Supports LED Videowall sizes from 8192x4320 to 128x96 pixels
- Wide range of standard input connectivity including HDMI, DisplayPort, DVI, VGA, Composite, RGB, H.264 HD Streaming Video
- Front Panel HDMI In for easy access
- Logo Store & Test Pattern Generator
- Optional 12G-SDI In and Out
- Optional SFP+ Optical In and Out

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Inputs

Input Channel	Standard Sources	Optional Sources
Ch1, 2, 3, 4	HDMI 2.0a with HDCP2.2 & DisplayPort1.2	
Ch5, 6, 7, 8	HDMI 2.0a with HDCP2.2 2 i/p connectors per channel	
Ch 9, 10	HDMI 2.0a with HDCP2.2 Including 1 front HDMI, H.264 HD Streaming Video	
Ch 11, 12, 13, 14, 15, 16, 17, 18		12G-SDI, supporting 3G-SDI, HD-SDI & SD-SDI
Ch 19	Logo & Test Pattern	
Ch 20, 21	DVI, VGA, Composite, RGB	
Ch 22, 23		SFP+ Cage

Any Input source channel can route to any or several Output(s) . Sources from separate channels are non-blocking so can be displayed simultaneously on different outputs. Inputs from sources from the same channel can be selected between using HQUltraFast but cannot be displayed simultaneously. Dissolve and Fade functionality is applicable to transitions between different input channels.

All 4K50/60 HDMI & DP Inputs support 4K50/60 4:4:4 RGB.
12G-SDI Inputs support 4K50/60 4:2:2
SFP+ Inputs accept 12G transceivers and receivers and SMPTE 2022-6 modules

Outputs

Standard: 4x HDMI2.0a with HDCP2.2 supporting up to 4K50/60 4:4:4 RGB
1x HDMI Confidence Monitor

Optional: 4x 12G-SDI, 8 output connectors, 2 per output channel
4x SFP+ Cages accept Optical 12G-SDI/SMPTE 2022-6 modules
4x duplicate HDMI programme outputs for local monitors or second main displays

Supported Switching & Sync Modes

Seamless Switching with Dissolve & Fade in Genlock and Free-Run modes.
HQUltraFast input Switching in Genlock and Free-Run modes.
Source Lock with one output as the designated master sync channel is also supported when HQUltraFast switching is not required

Controls & Comms

Front panel jog-wheel and LCD menu display for fast local set-up.
Keypad for direct input selection and integral indicator LEDs.
Remote control via TCP/IP API and Web Server.
Gigabit Ethernet for webserver and remote control API
USB for firmware updates

Power Requirements

100-264VAC, 300W typical

Warranty

3-years return to base (factory) warranty covers parts and labour.



Model >	H4000	H4000S	H4000FS
HDMI 4K Rear Inputs	14	14	14
HDMI 4K Front Input	1	1	1
DVI/RGB Inputs (DVI-I)	2	2	2
VGA Inputs	2	2	2
Composite Video Inputs	2	2	2
DisplayPort 4K Inputs	4	4	4
HDBaseT 4K Inputs			
12G-SDI Input Channels		8	8
H.264 Streaming Video Inputs	2	2	2
Genlock Input & Loop-Out	1	1	1
HDMI 4K Programme Outputs	4	4	4
HDMI Confidence Monitor Output	1	1	1
12G-SDI Output Channels		4	4
SFP+ Input / Output Cages			2
SFP+ Output Cages			2
HQUltra 4K Low-Latency Processing	■	■	■
Dissolve and Fade Transitions	■	■	■
HQUltraFast High Speed Input Switching	■	■	■
TCP/IP Webserver & API Control	■	■	■
Pan, Zoom, Tilt	■	■	■
8K Videowall mode with auto PTZ	■	■	■
8K LED stitching, auto or manual PTZ	■	■	■
LED Videowall Per-Edge Sizing	■	■	■

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