

HQUltra770SV

HQUltra 4K Events AV Scaler-Switcher & LED Scaler with HQUltraFast Switching, Line Level & Microphone Inputs, Power Amp & HDBaseT & Streaming Video Inputs



HQUltra770A is a universal live events scaler-switcher & LED videowall image scaler based on Calibre's proprietary class-leading HQUltra 4K image processing technology.

Calibre's HQUltra 4K scaling provides best in class picture quality with low latency video processing.

Multi-region high-bit-depth soft edge blend with black level correction for seamless soft-edge blending.

Featuring Calibre's proprietary HQUltraFast input channel switching able to switch input channels in under a quarter of a second, HQUltra770A has a wide range of input connectivity for today's digitally connected ProAV world, but still is able to support legacy formats too, all with great image quality.

HQUltra770A includes stereo analogue audio inputs and outputs with audio-follow-video capability. There are two microphone inputs with phantom power available and internal mixer for talk-over. The internal power amplifier provides 2x15W RMS to directly drive loudspeakers in meeting rooms and smaller conference room, plus line level balanced stereo outputs to drive an external amplifier or powered loudspeakers,

HQUltra770A includes front panel controls with easy to read front panel menu system as well as remote control via inbuilt webserver or easy to implement protocol.

For in-camera use a Genlock input is provided compatible with bi or tri-level sync or black & burst.

For LED videowalls HQUltra770 has a special LED mode with per-edge pixel-accurate image sizing for fast pixel-perfect image alignment on LED videowalls.

- Perfect scaling with Calibre's HQUltra low-latency 4K best-in-class proprietary scaling algorithms
- HQUltraFast proprietary typical 0.25 seconds input channel switching technology
- LED Videowall Mode with per-edge pixel-accurate custom sizing
- Soft-edge blend with high bit depth processing & black level correction
- Front panel jog-wheel and LCD display for fast easy set-up in the field. Remote control via webserver or simple API
- 11 Video Inputs: 2xHDMI 4K, 1xHDMI HD, 1xDisplayPort 4K, 1xHDBaseT 4K, 2x3G-SDI, 1xVGA, 1xCVBS, 1xDVI-U (DVI/HDMI & VGA/RGBS/YPbPr)
- 4 Video Outputs: 1xHDMI 4K, 1x DVI/HDMI, 1xHDBaseT 4K, 1x3G-SDI
- 8x Line Level Stereo Audio Inputs
- 2x Microphone Inputs with Phantom Power and Audio Mixer
- Stereo Audio Power Amplifier with 2x15W RMS Loudspeaker Outputs
- Stereo Balanced Line Level Audio Outputs
- Picture in Picture
- Brightness, Contrast, Saturation controls for all source types. RGB calibration controls (not 4:2:0 in to 4:2:0 out)
- Flexible Aspect Ratio Conversion
- Full Genlock and Source Lock for in-camera, broadcast & edge blend
- Audio de-embed from HDMI, DisplayPort, HDBaseT and 3G-SDI inputs, re-embed to HDMI, HDBaseT and 3G-SDI outputs.
- H.264 HD Streaming Video Input



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Inputs

2x HDMI 4K, 1x HDMI HD, 1x DisplayPort 4K,
1x HDBaseT 4K, 2x 3G-SDI
1x DVI-U supporting VESA modes, SD, HD, can be configured as fourth HDMI input.
DVI-U input also simultaneously supports VGA/RGBS/YPbPr legacy analog formats with suitable cable.
1x VGA Analog
1x Composite PAL/NTSC/SECAM
1x Genlock reference sync i/p, supports bi/tri-level or black&burst 50/59.94/60Hz sync
Optional H.264 Streaming Video Input via Gigabit Ethernet Port

HDCP supported on all HDMI/DVI/HDBaseT/DisplayPort I/O

6x Line Level Stereo Audio via 3.5mm Jack
1x Line Level Stereo Audio via 2xRCA
2x Microphone Input with 48V Phantom Power via 6.35mm Jack

Supported digital input and output formats:

4K/UHD (HDMI 4K/DisplayPort /HDBaseT only)
3840x2160p, 4096x2160p 23.97/24/25/29.94/30/50/59.94/60;
UHD/4K 50/59.94/60p modes supported in 4:2:0 format.
HD 1280x720p, 1920x1080i, 1920x1080psf,
1920x1080p23.97/24/25/29.94/30/50/59.94/60,
2048x1080p23.97/24/25/29.94/30/50/59.94/60.
ED 480p, 576p (not via SDI), SD 625i (576i), 525i (480i)
Common VESA graphics formats from VGA to 4K,
(Modes > WUXGA on 4K capable channels only. 480i/576i out via SDI only)
Note: Some 4K zoom functionality is limited/unavailable when PIP is in use

Outputs

1x HDMI 4K via HDMI connector
1x DVI/HDMI via DVI connector
1x HDBaseT 4K
1x 3G-SDI
1x S/PDIF digital audio via RCA
NB: 3G-SDI output is disabled with HDCP-encrypted input and also when incompatible output modes are selected. All outputs are otherwise available simultaneously, with the same image shown on each.

1x Loudspeaker Connector, 2x15W RMS
1x Line Level Balanced Stereo

Supported Switching & Sync Modes

HQUltraFast input Switching in Genlock and Free-Run modes
Also supports Source Lock when HQUltraFast not required

User Controls

Front panel jog-wheel and LCD menu display for fast set-up.
Keypad for direct input selection and integral indicator LEDs.
Remote control via RS232, TCP/IP API and Web Server.
Gigabit Ethernet for webserver and remote control API

Power Requirements

100-264VAC, 65W typical

Warranty

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

Order Codes

HQView770A with Audio – Order Code **H770A**

HQView770ASV with Audio & Streaming Video Input – Order Code **H770ASV**



| Model > | H210 | H310 | H320 | H325 | L530 | H620 | H625 | H630 | H670 | H730 | H770 | L720 | L725 | L730 | L770 |
|--|------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Front LCD menu or OSD control | OSD | OSD | OSD | OSD | LCD | LCD | LCD | LCD | LCD | LCD | LCD | LCD | LCD | LCD | LCD |
| HDMI 4K Inputs | | | | | | ■(2) | ■(2) | ■(2) | ■(2) | ■(2) | ■(2) | ■(2) | ■(2) | ■(2) | ■(2) |
| HDMI HD Input | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| DVI/HDMI HD Input | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| HDBaseT 4K Input | | | | | | | | | | | | | | | |
| DisplayPort 4K Input | | | | | | | | | | | | | | | |
| Component Input | BNCs | BNCs | | BNCs | | DVI-U |
| Composite Input(s) | | | | | | ■(2) | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| VGA Analog Input | | DVI-I | DVI-I | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 3G-SDI Input(s) | ■ | | | | | | | | ■(2) | ■(2) | ■(2) | | | | ■(2) |
| DVI / HDMI HD Output | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| HDMI 4K Output | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| HDBaseT 4K Output | | | | | | | | | ■ | | | | | | |
| VGA Analog Output | | | | | | | | | | | | | | | |
| 3G-SDI Output | | | | | | ■ | | | ■ | ■ | ■ | | | | |
| 3G-SDI Audio embed/de-embed & SPDIF | | | | | | ■ | | | ■ | ■ | ■ | | | | |
| HQV Processing | ■ | ■ | ■ | ■ | | ■ | | | ■ | | | | | | |
| HQUltra 4K Low-Latency Processing | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| HQUltraFast High Speed Input Switching | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| PIP | | | | | | | | | ■ | ■ | ■ | | | | |
| TCP/IP Webserver & API Control | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Geometry Correction, 4-Corner, Rotate | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Mesh-based Warp, config via PC App | | ■ | ■ | ■ | | | | | | | | | | | |
| Genlock - V-Lock | | | | | | | | | | | | | | | |
| Genlock - H&V or Crosslock | | | | | | | | | ■ | ■ | ■ | | | | |
| Pan, Zoom, Tilt | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Edge Blending | ■ | ■ | ■ | ■ | | | | | | | | | | | |
| Edge Blend Black Level Correction | | | | | | | | | | | | | | | |
| Videowall mode with auto PTZ | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| LED Videowall Per-Edge Sizing | | | | | | ■ | | | | | | | | | |
| Analogue Audio In, Out and Power Amp <i>Opt: option fitted to models with "A" suffix</i> | | | | | | | | | Opt | Opt | Opt | | | | |
| Streaming Video Input via Network Port <i>Opt: option fitted to models with "SV" suffix</i> | | | | | | | | | Opt |

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