

## HQView670

### HQUltra Events Scaler-Switcher with HQUltraFast Input Switching & HDBaseT



HQView670 is a universal image scaler based on Calibre's proprietary class-leading HQUltra 4K image processing technology. HQUltra scaling provides best in class picture quality with low latency video processing.

Featuring Calibre's proprietary HQUltraFast input channel switching able to switch input channels in under a quarter of a second, HQView670 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.

HQView670 includes front panel controls with easy to read front panel menu system as well as remote control via inbuilt webserver or easy to implement API commands.

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

Flexible Pan-Tilt-Zoom controls allow selection of an area of interest

Rugged 1U rack-mountable case with integral modular universal mains PSU.

- 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
- Front panel jog-wheel and LCD display for fast easy set-up in the field
- 11 Video Inputs: 2xHDMI 4K, 1xHDMI HD, 1xDisplayPort 4K, 1xHDBaseT 4K, 2x3G-SDI, 1xVGA, 1xCVBS, 1xDVI-U (DVI/HDMI & VGA/RGBS/YpPr)
- 4 Video Outputs: 1xHDMI 4K, 1x DVI/HDMI, 1xHDBaseT 4K, 1x3G-SDI
- 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 and broadcast
- Audio de-embed from HDMI, DisplayPort, HDBaseT and 3G-SDI inputs to S/PDIF, re-embed to HDMI, HDBaseT and 3G-SDI outputs
- Multiple outputs for local monitoring of live output feed
- Remote control via webserver or simple API



# Preliminary

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## HQView670

### HQUltra Events Scaler-Switcher with HQUltraFast Input Switching & HDBaseT

#### 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/Y/PbPr legacy analog formats with suitable cable.
- 1x VGA Analog
- 1x Composite PAL/NTSC/SECAM
- 1x Genlock reference sync input, supports bi/tri-level or black&burst 50/59.94/60Hz formats

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

#### Supported digital input and output formats:

- 4K/UHD (HDMI 4K/DisplayPort /HDBaseT only)
- 3840x2160p23.97/24/25/29.94/30/50/59.94/60;
- 4096x2160p23.97/24
- 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 higher than WUXGA on 4K capable input channels only)

#### 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.*

#### 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, 50W typical

#### Warranty

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

HQView 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	DVI-U	DVI-U	DVI-U	DVI-U	DVI-U	DVI-U	DVI-U	DVI-U	DVI-U
Composite Input(s)					■(2)	■	■	■	■	■	■	■	■	■	■
VGA Analog Input		DVI-I	DVI-I		■	■	■	■	■	■	■	■	■	■	■
3G-SDI Input(s)	■							■(2)	■(2)	■(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				■	■										
HQUltraWarp Embedded Real-Time Warp											■				
Genlock - V-Lock					■										
Genlock - H&V								■	■	■	■			■	■
Pan, Zoom, Tilt	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Edge Blending		■	■	■	■										
Edge Blend Black Level Correction					■										
Auto pan/zoom/tilt of content for blending		■	■	■	■										
LED Videowall Per-Edge Sizing					■										

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