4K LED Wall Scaler-Switchers

LEDView700 & HQUltra700 Series
Bringing UHD capability to LED screens.
Professional AV, Staging, Broadcast, House of Worship, Medical, Corporate AV, Education and Sports Arenas

Using Calibre’s proprietary HQUltra halo-free low latency scaling, these products provide stunning image quality in demanding applications providing the ultimate scaler-switcher solution. Incorporating HQUltra pixel-accurate image resizing with outstanding downscaling and up scaling capability and HQUltraFast input switching technology to change inputs in approximately 0.25 seconds. As with previous generations of Calibre LED Scalers, the LEDView700 series includes Calibre’s Fast and perfectly Accurate screen set-up interface with edge-based sizing and positioning.

Creating Technology for Tomorrow’s World Today has been Calibre’s mission over the past 3 decades. The multi-award winning British based manufacturer has been the centre of excellence for providing visually stunning image scaling technology for use in the Presentation, ProAV, Broadcast, Digital Cinema, Home Security and Medical markets. Calibre design and manufacture products under its own brand-names HQUltra, HQView, LEDView & Fovea as well as being a highly effective OEM partner to many well-known companies in specialist markets, providing customised image scaling and processing solutions. Its technology foundation provides the ProAV user with the latest 4K image processing within an incredibly, versatile range of Scaler-Switchers.

CALIBRE

CORNWALL HOUSE - CORNWALL TERRACE
BRADFORD - WEST YORKSHIRE - BD8 7JS - UK
The LEDView/HQUltra Series of products are universal image scalers-switchers based on Calibre’s proprietary class-leading HQUltra 4K technology processing video at full 50/60 Hz refresh rate. HQUltra scaling provides best in class picture quality with low latency video processing.

All models feature Calibre’s proprietary HQUltraFast switching technology capable of switching between input channels in as little as a quarter of a second. Several models are available offering an extensive range of input connectivity for today’s digitally connected ProAV world, but still can support legacy formats too, all with great image quality.

Audio models can directly drive loudspeakers in meeting rooms and smaller conference room, plus line level balanced stereo outputs to drive an external amplifier or powered loudspeakers.

All models feature an easy to read front panel menu plus remote control via inbuilt webserver and 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.

The Complete A/V Solution

- Pixel accurate 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.
- Brightness, Contrast, Saturation controls for all source types.
- RGB calibration controls (not 4:2:0 in to 4:2:0 out).
- Audio de-embed from HDMI, DisplayPort, HDBaseT* and 3G-SDI inputs*, 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.
- Flexible Aspect Ratio Conversion.
- Up-to 12 Inputs: 2xHDMI 4K, 1xHDMI HD, 1xDisplayPort 4K, 1xHDBaseT 4K*, 2x3G-SDI*, 1xVGA, 1xCVBS, 1xDVI-U (DVI/HDMI & VGA/RGQS/YPbPr).
- Up-to 4 Outputs: 1xHDMI 4K, 1x DVI/HDMI, 1xHDBaseT 4K*, 1x3G-SDI*.
- Picture in Picture (PiP)*.
- Full Genlock* and Source Lock for in-camera and broadcast.
- Streaming Video* H.264 via the Gigabit Ethernet Port.
- LED Videowall Mode with per-edge pixel-accurate custom sizing.

Audio*

- 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.

* On selected models. Refer to the feature table for more details.
Inputs
- 2x HDMI 4K.
- 1x HDMI HD.
- 1xDisplayPort 4K.
- 1xHDBT 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 analogue formats with suitable cable.
- 1x VGA Analogue.
- 1x Composite PAL/NTSC/SECAM.
- 1x Genlock reference sync input, supports bi/tri-level or blackburst 50/59.94/60Hz formats*.

HDCP supported on all HDMI/DVI/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;
- 4096x2160p23.97/24/25/29.94/30/50/59.94/60.
- UHD/4K 50/59.94/60p modes supported in 4:2:0 format.
- HD 1280x720p, 1920x1080, 1920x1080p@23.97/24/25/29.94/30/50/59.94/60.
- 2048x1080p@23.97/24/25/29.94/30/50/59.94/60.
- 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 3G-SDI (disabled with HDCP-encrypted input and for incompatible output modes.)
- 1x S/PDIF digital audio via RCA.

All outputs are 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.
- Gigabit Ethernet for server and remote control API.

Power Requirements
100-264VAC, 65W typical.

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

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*On selected models. Refer to the table.
Function Shortcuts
• Blank: Sets the o/p to black.
• Freeze: Freezes the output.
• Logo: Displays stored LOGO.
• PTZ: Selects portion of the input image to be scaled.
Press to toggle functions ON or OFF.

Test Patterns
Selects built-in test patterns or stored images. Use jog wheel to scroll through.

Video Inputs
• 1xDisplayPort 4K.
• 2xHDMI 4K.
• 1xHDBaseT 4K.
• 1xDVI/RGB YPbPr.
• 1xStreaming Video.
• 1xVGA.
• 1xCV.
• 2x3G-SDI.
• 1xHDMI HD.

Audio Inputs
• 2x Microphones.
• 8x Stereo Analogue Audio.

Genlock Input

Speaker/Line Output

Outputs
• 1xHDMI 4K.
• 1x3G-SDI.
• 1xHDBaseT 4K.
• 1xDVI/HDMI.

Menu Navigation
• Menu Sel: Enter or select a menu.
• Esc: Exit the menu or jump to exit item.
• Display: 4-line high contrast LCD display.
• Jog Wheel: Scroll through the menu, change value or press to enter a selection.

Audio Inputs
• 2x Microphones.
• 8x Stereo Analogue Audio.

Image shown above is for the HQUltra770ASV.
**HQUltra 4K Scaling**

**Description**
- LEDView700 and HQUltra700 series of scalers-switchers are based on Calibre’s proprietary class-leading HQUltra 4K image processing technology. HQUltra scaling provides the best in class picture quality with low latency video processing.

**Why is this important?**
- Calibre’s proprietary technology offers the sharpest and clearest images. This is especially true even at high scaling factors as illustrated in the image below.
- The image on the top was produced by a Competitor’s product and the image on the bottom was produced by Calibre’s LEDView730. The image on the top exhibits ringing and ghosting around the icons and letters. On the other hand, Calibre’s image on the bottom is sharp, clear and free of any halo-effects.
**HQUltra 4K at 50/60Hz**

**Description**
- The unit accepts 4K inputs at refresh 50/60Hz rates and downscales to any lower resolution. The unit also up-scales any signal to 4K 50/60Hz.

**Why is this important?**
- 4K format offers the highest resolution video with the best clarity and sharpness. In addition to 4K scaling, processing at 50/60Hz refresh frame rate allows for fast motion video to be viewed with exceptional smoothness.
- Competitor products process the input signal at only at 25/30Hz affecting the quality of image on the screen.
- Sporting events and fast motion video need to be displayed at full 50/60Hz for the motion to look natural and smooth.

**Ultra-Fast Switching**

**Description**
- Switching between different sources typically takes ¼ of a second.

**Why is this important?**
- Based on Calibre’s unique in-house technology, our switchers are the fastest in the market. Transition on the screen is so fast, it appears seamless.
- Audiences will not see the frozen image for more than ¼ of a second. Similar single-scale competitive switchers, take 3 to 4 seconds.
Low Delay for IMAG

Description
• Input video is processed with only one frame delay.

Why is this important?
• In live performances, this is a MUST have feature to avoid the unwanted effect when there is a mismatch between what the audience views on the display and the live scene in front of them.

PTZ (Pan-Tilt-Zoom)

Description
• Any portion of the input image can be selected, scaled and presented to the output. Adjustments can be done on percentage or in pixels increments.

Why is this important?
• This feature provides the user with great flexibility. Users are not limited in scaling the whole image, but they can choose the section they would like to scale.
Colour Adjustment

Description
• Colour from each input can be fully adjusted to match video signals from different sources.

Why is this important?
• In many situations, an input signal may need an adjustment before it is displayed. This maybe because the source material is too dark, or the image colour is not right.
• For example, in live events the colour and brightness from two cameras aiming at the same scene may not look the same. Using this feature, users can adjust each input signal so they the displayed image still has the same colour and brightness and switching between the two cameras is smooth.

Built-in Test Patterns (TP)

Description
• Several build-in test patterns, including a moving cross, are available to verify that valid video is present on the output.
• Test patterns can be enabled even when there are no input signals connected to the unit.
• Up-to four additional custom test patterns can be loaded to the unit through the web interface.

Why is this important?
• Test patterns can be used to perfectly size the unit’s output to the display area.
• Up-to four additional custom test patterns can be loaded to the unit through the web interface, allowing users to download their own test patterns.
**LOGO**

**Description**
- Any image in PNG format can be downloaded from the computer and used as a LOGO. The image size limitation is 64MB.

**Why is this important?**
- Before an event starts or during breaks, this feature allows the customer’s company logo to appear on the screen. This feature makes it easy and provides additional flexibility what the switcher can do.

**Output Custom Modes**

**Description**
- Users can create up-to four custom output progressive or interlaced resolutions.

**Why is this important?**
- These control methods provide a wide flexibility to interface with the unit whether the user is close by or far away.
- All functions and features can be accessed with all three methods.

**Unit Control**

**Description**
- The unit can be controlled via the front panel, a web page built-in into the unit or an API protocol interface.

**Why is this important?**
- These control methods provide a wide flexibility to interface with the unit whether the user is close by or far away.
- All functions and features can be accessed with all three methods.
LED Wall Scaling

Description
• Users can define an area within the output raster where the output scaled image will be positioned. This area should match exactly the size of your LED wall. The image can be reduced to 128x96 pixels.

Why is this important?
• With this menu, users can quickly and accurately size the image to the LED wall. You don’t need to even know the LED size because the adjustments can be done visually by turning the knob. This is a unique feature in Calibre scalers.

Large LED Wall – Splicing

Description
• In a system configuration where multiple units are driving different portions of a large LED wall, each unit can be set to drive different portion of the LED wall.
• Each unit can be easily configured to select and process the corresponding portion of the input signal. If the size of the different portions of the LED wall are unequal, the user can enter additional information regarding the LED wall configuration in the splicing setup menu.

Why is this important?
• This is an extremely powerful feature not available in any other switcher.
• With this menu, users can interface with any large and complicated LED wall configurations.
**Picture Format**

**Description**
- The Picture format feature allows users to select the aspect ratio of the output image.

**Why is this important?**
- This feature allows the user to format the output image when the input aspect ratio is different to the display panel’s aspect ratio.
- Four formats are available: Original, Full Screen, Crop and Anamorphic.

**Original**: The input image is scaled to fit the display area either horizontally or vertically without any distortion. The input aspect ratio is preserved and unused areas on the top/bottom or left/right are set black.

**Full Screen**: The input image is scaled to completely fit the display area without preserving the aspect ratio of the source. This will cause distortion but no black areas will be visible.

**Crop**: The input image is scaled to completely fit the display area while preserving the aspect ratio of the source. Portions of the input image on the top/bottom or left/right will be cropped out of the output image.

**Anamorphic**: The image will be treated as in crop, but it is always scaled to a 16:9 aspect ratio. The images below provide examples how an input image 1400x1050(4:3) is scaled to an 1920x1080(16:9) output with the four available formats.
**PiP (Optional)**

**Description**
- With the PiP feature, two input sources can be displayed simultaneously.

**Why is this important?**
- Users can reduce the area where the image is displayed and use the outline area to display titles, messages or advertisements depending on the application.

**HDBT (Optional)**

**Description**
- Units fitted with the HDBT option can accept and output video in the HDBT format.

**Why is this important?**
- HDBT format allows transmission of digital signals over long distances via the cost-effective CAT6/CAT7 cables.
- Transmitting a digital signal (HDMI/DP/DVI) over long distances, such as on a ceiling mounted projector, can be problematic due to the distance limitations of the DP/HDMI and DVI standards. This problem is solved by outputting and transmitting HDBT signal over CAT6/CAT7 cable up-to 100 metres. There are several projectors in the market that can accept the HDBT signal, simplifying the interface between the switcher and the projector.
Streaming Video (Optional)

Description
- Units fitted with the streaming option can accept 1080p H.264 Streaming Video via the Gigabit Ethernet Port and route it to the output.

Why is this important?
- Content coming from streaming source is becoming more popular.
- This feature provides additional flexibility by allowing the unit to accept contact from a pre-created file or a streaming source. Therefore, the input signal doesn’t need to come from an external hardware device such as a PC or a video server.

Audio (HQUltra models only)

Description
- Audio models are fitted with eight-line level stereo audio inputs plus two microphone inputs with phantom power. Each unit also includes a built-in mixer and a stereo 30W amplifier with two loudspeaker outputs. Two additional stereo balanced line level outputs are also available.
- Each audio and mic inputs can be assigned separately to any of the video inputs.

Why is this important?
- With the addition of the audio feature the HQUltra series of products becomes the perfect all-in one presentation box.
- The unit can satisfy any A/V requirement for any event in a corporate boardroom, hotel conference room, lecture hall or house of worship.
Applications Include Professional AV, Staging, Broadcast Projection and LED, Houses of Worship, Corporate, Education, Immersive AV and Museums

**HQView530** is a universal HD image scaler and scan converter. It has 3G-SDI input & output connectivity, genlock, pan/zoom/tilt and interfaced or progressive output capability, able to up, down or cross convert virtually all video signal formats. Powerful geometry correction is able to correct image shape and projector misalignment by dragging and dropping each image corner, or by pin/barrel/rotation, or by keystone and rotation. An automatic portrait extraction mode is also provided. Professional grade 48-bit per pixel 4-sided soft edge blend provides seamless blending of multiple projectors using Calibre’s proprietary blend processor with 8-zone blending and 9-zone black level correction. HQView530 includes full warp mapping for projection onto curved and irregular surfaces and precise image alignment as well as including blend and geometry correction.

**HQView325** is a highly flexible warp and blend scaler featuring 4-sided soft edge blend with multi-region black level correction for seamless blending of multiple projectors and full warp mapping support.

**HQView320** provides geometry correction, blend and warp processing capabilities, but with DVI/HDMI, VGA Analogue (via DVI-I) and Component Video connectivity only, housed in a compact package for installation behind a projector or in a control desk. HQView310 is a lower-cost alternative without full warp capability.

**HQView210** is an SDI to DVI/HDMI scaler with geometry correction and RGB colour calibration as well as image rotation and portrait mode extraction. Note this model does not include full warp and blend.

**LEDView530** is an LED scaler for professional, broadcast, sports & rental/staging use. LEDView530 features front panel LCD menu and jog-wheel control and supports screens from 128x96 to 1920x1200 pixels per unit with innovative and powerful pixel-accurate Output Window per-edge-based sizing. LEDView530 can also be used in projection mode with warp & blend capabilities for optimal hire-fleet inventory utilisation.

### Model Comparison Table

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<td>Geometry Correction, 4-Corner, Rotate</td>
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<td>Mesh-based Warp, config via PC App</td>
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<td>Pan, Zoom, Tilt</td>
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<td>Edge Blending</td>
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<td>Edge Blend Black Level Correction</td>
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<td>Videowall mode with auto PTZ</td>
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<td>LED Videowall Per-Edge Sizing</td>
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