4K Splicing and Scaling

RGBlink®
Essential 4K Video Scaling and Splicing

Take advantage of 4K video sources to scale and splice to multiple 2K outputs. Compact in form at only 1U, switch between multiple sources glitch free with ease. Spliced outputs may be arranged in a variety of ways in addition to conventional 4K split, with panoramic and other configurations. X1pro e also offers multiple operation modes to support applications such as 4K1K and more.

Standard 4K Inputs

X1pro e includes popular DVI and DisplayPort inputs supporting 4K, with the DVI2 also supporting HDMI (and HDCP). Loop connectors are provided allowing connectivity to other devices.

4K Split Outputs

With standard output to quad DVI connectors, X1pro e is ready to connect to common LED systems, facilitating pixel-to-pixel splicing across multiple outputs and displays regardless of physical arrangement.

Multi-Mode Operations

Ideal for a range usage applications, X1pro e is ready with the flexibility of multiple operation modes, enabling display solutions from conventional 2K with presentation modes, through to 8Kx1K splicing mode, and matrix operations too.

Add Additional Inputs

The unique RGBlink modular input system is available on board X1pro e, allowing users to add up to an additional three 2K input sources for added flexibility. Options include USB2.0, 3G-SDI and more.
2K Preview/Switcher Mode
In Preview mode, outputs are divided into 2K duplicate pairs, with two ports as preview (PST) and two ports as program (PGM). Switch seamlessly from PST to the PGM outputs.

4K1K Preview/Switcher Mode
In this seamless switcher mode, outputs are arranged in pairs, with two ports in split modes providing a 4K by 1K preview (PVW) and the other two DVI ports similar as program (PGM) outputting 4K by 1K to be a single seamless display. Alpha cross fade between PVW and PGM via the TAKE button.

4K1K Split Mode
Each pair of outputs forms a duplicated 4K1K display with a background layer across the 4k1K and a PIP able to added to each 2K1K area.

* shown with optional modules fitted as example configuration. Refer to Specifications and Guides
4K Split Mode
Use a 4K/UHD input signal with X1pro e to easily split and distribute across multiple 2K outputs, ideal to produce native 4K video wall solutions.

8K1K Split Mode
Take one or more video sources to produce a panoramic style 8K x 1K display seamlessly spliced and synchronised for continuous display. Suitable for stage and studio display applications.

Independent/Matrix Mode
Use X1pro e as a router with scan conversion between input and output allowing delivery of digital video to downstream devices.
**Configurable Splicing**

Output splicing maybe configured in a variety of ways to deliver a continuous display surface using the four DVI outputs provided, whether in conventional formats or custom formats.

- 4K UHD | 4Kx2K
- 2Kx4K
- 8Kx1K

**Seamless Switching**

In preview mode, outputs are divided between Preview (PVW) and Program (PGM) functions, with the PVW allowing operators to visually confirm source/preset video before TAKE to output.

In standard splicing modes where all four outputs are utilised for the main Program display, no preview is available, nonetheless switching between sources is seamless.

**Redundant Outputs**

X1pro e includes a full set of backup/loop outputs, fully synchronised with the main outputs, these outputs may be utilised to supply video to backup displays or LED control systems, increasing the availability options without the need for additional splitters.

**Robust & Flexible**

Signal failure over, or Hot backup is available. In the event a source signal is lost, the X1pro e can automatically switch to the alternate source specified.

**Direct Access**

Configure and control X1pro e directly from the front panel. With large illuminated buttons and OLED display, X1pro e operations are intuitive and fast.

**LOGO Capture**

Capture a video frame and store on board X1pro e, ideal for logos, default or fail-over messages.

**Test Patterns**

In aid of configuration, X1pro e includes common test patterns.
## Specifications

### Connections

<table>
<thead>
<tr>
<th>Input</th>
<th>Standard with</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVI In/Loop</td>
<td>2 × DVI-I</td>
</tr>
<tr>
<td>DVI 2 In</td>
<td>1 × DVI-I (HDMI 1.4 Compatible)</td>
</tr>
<tr>
<td>DP In/Loop</td>
<td>2 × DisplayPort</td>
</tr>
<tr>
<td></td>
<td>1 slot up to 3 single inputs, select from below</td>
</tr>
<tr>
<td>DVI Module</td>
<td>1 × DVI-I</td>
</tr>
<tr>
<td>HDMI Module</td>
<td>2 × HDMI (1 In/1 Loop)</td>
</tr>
<tr>
<td>VGA Module</td>
<td>1 × DB15</td>
</tr>
<tr>
<td>3G SDI Module</td>
<td>2 × BNC (1 In/1 Loop)</td>
</tr>
<tr>
<td>USB 2.0 Module</td>
<td>2 × USB-A (1 In/1 Backup)</td>
</tr>
<tr>
<td>DP Module</td>
<td>1 × DisplayPort</td>
</tr>
<tr>
<td>Output</td>
<td>Standard with</td>
</tr>
<tr>
<td>DVI</td>
<td>8 × DVI-I (4 Out/4 Backup)</td>
</tr>
<tr>
<td>Communication</td>
<td>1 × RJ11</td>
</tr>
<tr>
<td>USB</td>
<td>1 × USB-A</td>
</tr>
<tr>
<td>Power</td>
<td>1 x IEC</td>
</tr>
</tbody>
</table>

### Performance

#### Input Resolutions

- SMPTE: 480i | 576i | 720p| 1080i | 1080p| 1920x1080 | 1080i | 2160p | 4K | UHD | 8K |
- VESA: 800x600 | 1024x768 | 1280x768 | 1920x1080 | 1920x1200 | 2160x1080 | 3840x2160 | 30 |
- CVBS: 800x600 | 1024x768 | 1280x768 | 1366x768 | 1600x1200 | 1920x1080 | 1920x1200 | 2160x1080 | 30 |

#### Output Resolutions

Select from below or configure customised DVI

- SMPTE: 720p | 1080p | 2160p |
- VESA: 800x600 | 1024x768 | 1280x768 | 1366x768 | 1440x900 | 1440x990 | 1600x1200 | 1920x1080 | 1920x1200 | 2048x1152 | 3560x1816 |

#### Supported Standards

- SDI: SMPTE-425M (Level A & B) | SMPTE-424M | SMPTE-292M | SMPTE-259M-C | DVB-ASI |
- HDMI: 1.4 |
- DVI: Dual DVI |
- VGA: VGA-UXGA |
- DisplayPort: 1.1 |

### Physical

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage</td>
<td>AC 100V-240V, 50/60Hz</td>
</tr>
<tr>
<td>Max Power</td>
<td>65W</td>
</tr>
<tr>
<td>Temperature</td>
<td>0°C - 55°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>20% - 90%</td>
</tr>
<tr>
<td>Weight</td>
<td>Net: 2.7kg</td>
</tr>
<tr>
<td>Dimension</td>
<td>Net: 480mm x 303mm x 45mm</td>
</tr>
</tbody>
</table>

### Order Codes

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>110-0001-21-0</td>
<td>X1pro e</td>
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</tbody>
</table>

*for optional input modules refer to specification or user manual!

### Dimensions

- 480mm
- 432mm
- 226mm

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Proudly designed and manufactured in Xiamen Hi Technology Zone, China

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