UNIVERSAL VIDEO PROCESSOR

RGBlink®
80 Mega Pixel Multi-Window Video Display Processing. When size matters

For entire video display systems, X14 brings a new level of efficiency, capability and control. Supporting up to massive 52 inputs and up to 40 outputs, X14 truly brings together large videos systems for system-in-box approaches to video presentation and integration. Modular throughout RGBlink technologies support user fit input and output signals with each slot configurable up to 4K/UHD resolutions at full frame rates. With so many inputs, windowing and layering capabilities have been dramatically enhanced over earlier models and the output canvas is up to 80 Mega pixels. Dedicated preview functionality is available both remotely via XPOSE® and on the inbuilt LCD display. XPOSE® is embedded directly into X14 too, providing not just monitoring but extensive control capabilities. X14 takes advanced video processing and scaling to a whole new level.

Modular Design
X14 has 52 input slots which may be configured with universal quad modules. Similarly for output universal quad modules maybe fitted to any of the ten slots for 40 2K output, 20 HDMI 2.0 4K outputs or a combinations of both. A wide range of signal options are available including digital input and output modules, SDI up to 12G and conventional signal types.

Multi Role, Multi Application
Select the operation mode suitable for the application from continuous video wall mode to presentation mode and routing modes. There is also processing capabilities for 3D and mixed device application.

Full Color Space
Video scaling and conversion takes advantage of the RGBlink full 4:4:4 in hardware processing engine for the maximum visual performance.

HDR Support
Signals with High Dynamic Range are supported for processing via the processor with high bandwidth and wide gamut 12bit grey level processing.

Preview On Board
With a dedicated integrated LCD display for preview, sources and output video can be shown directly from the front panel, providing monitoring beyond simply signal status.

Local XPOSE® Controls
RGBlink XPOSE® is built right in, and with a touch screen interface a wide set of functionality can be undertaken with out the need to connect external control. Features including preset switching and systems settings are available.

Streaming preview
Manage and operate on XPOSE interface to monitor presets and preview all input source.

*X14 shown with optional modules as an example configuration. Refer Product Codes and Specifications for details.
80 Mega Pixel Capacity

Arrange outputs on a virtual canvas to create very large display surfaces or multiple display arranged as completed synchronised system all at high 60Hz digital refresh.

Rotate & Flip

Rotate outputs in 90deg increments, flip, invert. X14 also supports RGBlink ARO™ modules for advanced 1 degree rotation and edge blending.

Chroma Key/DSK

Apply a key from presets or specify to requirement for foreground keying against the background layer.

4K / UHD Support

Select from digital input and output options including HDMI and DisplayPort.

Genlock

Genlock Y In is provided along allowing X14 to be synchronised with a Genlock generator and other devices, with a Genlock Y loop out also built in.

Windowing & Video Layers

Display up to 160 video layers from any combinations of signals or sources. All video presented to output is fully synchronised and converted for output across the output channels.

Video Over IP

X14 includes options for video over ethernet standards including HDBaseT modules allowing direct connection to displays without conversion.

Connect and Control

Unleash powerful X14 capabilities with remote configuration and control via the XPOSE platform. XPOSE embedded available on board for localised control, with XPOSE for Windows or macOS.

High Availability Power

X14 is supplied with a 1200W server grade, self contained modular power supply which may be completed with a redundant power supply enabling hot-swap capabilities for mission critical applications.
**Monitoring/Control Room**

8K display canvas with multiple layers on each 2K display output. Present content can be switched seamlessly with specific sources brought to larger view on demand. Any source preview and dedicated PVW module.

**Live Events & Broadcast**

LED display system with a main stage display and 2 monitors either side of main display, plus additional displays above the stage and on the floor. Each display can be managed separately or brought together as a signal canvas.

**Integration/Installation**

LED display installation with background video graphics across a 16K canvas.

Stage presentation with main LED display divided into sections using video layers, relay LCD monitors allow viewing of content by people further from the stage or in backstage areas. All processing output from common sources connected to X14.

*Shown with option modules fitted. Refer to specifications and guides*
**Video Display as a System**

X14 is unique adaptable to multi-role systems with the capacity for both a large number of inputs and outputs. The range of user-fit modules allows X14 to be customised on demand and brings together usually diverse display solutions as a signal system reducing complexity, reducing the need for ancillary equipment and enhancing overall system performance. Multiple operation modes allow X14 to be deployed in a wide range of applications.

**Video Wall Processor**

Configure X14 as video wall splicing processor with up to 20 4K outputs connected or up to 4K outputs. Outputs may be arranged in pixel space as one or more displays with video mapped across the pixel space. Switch between presets seamlessly.

**Presentation Switch**

Set X14 in presentation mode to configure the outputs as for full preview (PST) and program (PGM) operations with multiple layers across outputs. Seamlessly switch between presets.

**3D Processing**

X14 includes 3D processing capabilities for common industry standards and allows seamless switching between 3D signals. Display massive 3D videos across up to 80 Mega pixel canvasses.

**ARO™ Advanced Rotation & Blending**

Fit RGBlink ARO output modules to take advantage of on-processor fine rotation and positioning capabilities or variable edge blending. All processing undertaken on the processor without media applications.

**Mixed Display Systems**

Content a diverse range of displays to X14 for full synchronised display making use of use common sources of any type.
Specifications

Input
13 slots, Up to 52 2K inputs / 13 4K inputs, select from below
4K@60 Module 1 x DVI-I | 2 x HDMI-A | 1 x DisplayPort 3G SDI Module 8 x BNC (4 In / 4 Loop)
12G SDI Module 4 x BNC (12 25 SDI or 4 x 3G SDI) HDMI Module 4 x HDMI-A
HDBaseT Module 4 x RJ45 H:264 Module 4 x RJ45

Output
10 slots, up to 40 2K outputs/20 4K outputs, select from below
4K HDMI Module 2 x HDMI-A HDBaseT Module 4 x RJ45
2K HDMI Module 4 x HDMI-A H:264 Module 4 x RJ45 | 2 HDMI-A
3G SDI Module 4 x BNC Rotation Module 4 x DVI-I
DVI Module 4 x DVI-I

Communication
UART 2 x D99 USB 4 x USB-A
IP Config/Central Control 2 x RJ45 Genlock In/Loop 2 x BNC

Power
2 slots, up to 2 power inputs

Input Resolutions
SDI
SMpte 480i | 576i | 720p@50/60 | 1080i@59.94/60 | 1080p@23.98/24/25/29.97/30/50/59.94/60 | 1080psf@23.98/24/25 /29.97/30 2160p@23.98/24/25/29.97/30/50/59.94/60
H:264 176x144 | 240x180 | 320x200 | 320x256 | 352x238 | 352x480 | 400x224 | 400x432 | 480x270 | 480x272 |
SMpte 480i | 576i | 720p@50/60 | 1080i@59.94/60 | 1080p@23.98/24/25/29.97/30/50/59.94/60 | 1080psf@23.98/24/25 /29.97/30 2160p@23.98/24/25/29.97/30/50/59.94/60
VESA 800x600@60 | 1024x768@60 | 1280x768@60 | 1280x960@60 | 1280x1024@60 | 1360x768@60 | 1400x900@60 | 1400x1050@60 | 1600x1200@60 | 1680x1050@60 | 1920x1080@60 | 2048x1152@60 |
3840x2160@60 | 2160p@24/30/60
DVI
SMpte 720p@23.98/24/25/29.97/30/50/59.94/60 | 1080p@50/59.94/60 | 2160p@24/30/60
VESA 800x600@60 | 1024x768@60 | 1280x768@60 | 1280x960@60 | 1280x1024@60 | 1360x768@60 | 1400x900@60 | 1400x1050@60 | 1600x1200@60 | 1680x1050@60 | 1920x1080@60 | 2048x1152@60 |
2048x1152@60 | 2560x1440@60 | 2560x960@60 | 2560x1600@60 | 3840x2160@60
HDBaseT [DisplayPort]
SMpte 720p@23.98/24/25/29.97/30/50/59.94/60 | 1080p@50/59.94/60 | 2160p@24/30/60

Performance

Output Resolutions
SDI
SMpte 720p@23.98/24/25/29.97/30/50/59.94/60 | 1080p@23.98/24/25/29.97/30/50/59.94/60 | 1080psf@23.98/24/25/29.7/30
DVI
SMpte 720p@50/59.94/60 | 1080p@50/59.94/60 | 2160p@24/30/60
VESA 800x600@60 | 1024x768@60 | 1280x768@60 | 1280x980@60 | 1280x1024@60 | 1360x768@60 | 1400x900@60 | 1400x1050@60 | 1600x1200@60 | 1680x1050@60 | 1920x1080@60 | 2048x1152@60 |
2048x1152@60 | 2560x1440@60 | 2560x960@60 | 2560x1600@60 | 3840x2160@60 | 3840x2160@60
HDBaseT
SMpte 720p@25/30/50/60 | 1080p@23.98/24/25/29.97/30/50/59.94/60 | 2160p@23.98/24/25/29.97/30/50/60
VESA 800x600@60 | 1024x768@60 | 1280x768@60 | 1280x960@60 | 1280x1024@60 | 1360x768@60 | 1366x780@60 | 1400x900@60 | 1400x1050@60 | 1600x1200@60 | 1680x1050@60 | 1920x1080@60 | 2048x1152@60 |
2560x1440@60 | 2560x960@60 | 2560x1600@60 | 3840x2160@60 | 3840x2160@60

Supported Standard
HDMI 2.0 | SMPTE ST 2082-1, SMPTE ST 2081-1, SMPTE ST 424, SMPTE ST 292-1, DP 1.2
DVI HDBaseT | VGA Dual Link | USB 1.0 | UXGA 2.0

Features
Splicing 80K
Max Number of Layers 160
EDID Management Yes
Remote Control XPOSE (Windows/MacOS) | OpenAPI | T Series Consoles

Power
Input Voltage 100-240V 50/60-Hz auto adjusted
Max Power 1200W

Environment
Temperature 0°C ~ 40°C
Humidity 10% ~ 85%

Physical
Weight
Net 50kg
Packaged 70kg
Dimensions
Net 483mmx550mmx62mm
Packaged 842mmx700mmx656mm

Order Codes

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<th>Product Code</th>
<th>Item</th>
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<tbody>
<tr>
<td>310-0014-01-0</td>
<td>X14</td>
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*Refer to specifications for module options

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Proudly designed and manufactured in Xiamen Hi Technology Zone, China