X2 VENUS

Universal Routing and Scaling Redefined

RGBlink™

SmartSlot™ Fully Modular Design Throughout

Input & Output along with Comm. and Preview cards feature RGBlink **SmartSlot™** technology. SmartSlot offers auto-identification and setup of the X2 based on the option modules fitted. No hardware setup of X2 is required when exchanging or adding a module to any slot. Simply configure the X2 for use creating layers and arranging outputs. Fitting or exchanging modules into a SmartSlot is tool free, no internal access to X2 is needed.

Input Cards

A range of digital input cards are available. X2 has four input card SmartSlots, each slot supporting upto four inputs of the signal selected. This allows up to 16 individual input sources.

DVI, HDMI, VGA, 3G-SDI, CVBS and USB are available, as are DisplayPort, HDBaseT, FiberPort and H.264 IP Streaming.

Output Cards

X2 offers an impressive capability with up to 16 digital outputs of 2K @ 60fps available. These outputs are user selected in layer cards of three or four signals. Each layer card has four independent scaling processors which can be used for multilayer applications or directed for output. Options are 3G-SDI, DisplayPort, HDMI, DVI, VGA, HDBaseT and FiberPort.

Comm. Ports

X2 comes fitted as standard with a communication card offering LAN , **uLink™** - the RGBlink device sync protocol, as well as GenLock and HDMI Sync connectivity.

The communications options can be extended with a plug-in Wi-Fi module, allowing X2 to be a Hot-Spot/Access Point or a Wi-Fi client for remote communications.

Preview Ports

X2 includes H.264 Streaming Output for Preview on the RGBlink XPOSE™ applications, this allows source previews remotely. Local source previews is also available on HDMI.

Refined and Sophisticated

Innovative and Modern

Flexible and Extendable

Performance Squared

X2 has a massive 24 mega pixel capacity. Output to up to 30720x816 pixels at full 60fps.

Multi-Head Output Splicing

Arrange layers across multiple outputs, splicing as necessary for edge blending support.

Output to Multiple Resolutions

Where output to displays of differing sizes or resolutions are used, take advantage of the X2 independent scaling for each output for seamless presentation.

Realtime Resolution Adaption

With 4.3Gbps internal bandwidth, X2 samples pixels 1:1, handing all processing including de-interlacing, format pulldowns and aspect corrections with a video delay of only 3 input fields.

Seamless Switching

Using advanced Alpha techniques, seamless switching between any signal is achieved.

Image Rotation

Rotate layers or outputs in 90deg increments to 90, 180 or 270 degrees.

Image Flip/Mirror

Layers and outputs may be flipped or mirrored either horizontally or vertically.

LOGO/Image Capture

Capture a frame and store for recall and display with the LOGO Capture feature.

Picture-in-Picture

PIP windows can be created on any layer, PIP's can be any size or position.

Down Stream Key

Any layer can have a DSK, ideal for applying subtitles or text overlays.

Chroma Key

Chroma Key is supported along with Luma settings allowing dymanic overlays over background layers.

Menu & Settings
High contrast OLED display
Easy to use Menu

Easy Maintain Fans
Variable speed
smart fan control

4 SmartSlot Inputs
Upto 16 inputs

4 SmartSlot Outputs
Up to 16 digital Outputs

Update Interface
USB for updates and diagnostics

Preview Outputs
Dedicated preview. including H.264 IP Streaming

GenLock & Comm.
Genlock and HDMI Ref Input uLink™ plus LAN and option for Wi-Fi

Redundant Power Supply Option
Intelligent PSU switching

X2 shown with complete set of modules and optional backup PSU

Use Chroma Key

Rotate and mirror

More Than Expected

X2 offers impressive capabilities in a compact size, and still provides more.

Continuous Display

Display up to 12 layers plus a background layer from a single X2.

Switcher Operations

For broadcast or presentation operations, seamlessly switch any six layers plus a background layer from a single X2.

Expand with LayerLink™

X2 introduces the RGBlink LayerLink™ feature set allowing highly sophisticated multi-layer, multi-device installations that have previously been beyond the reach of many applications.

Proven VENUS Platform

Built on the RGBlink 3rd generation processing engine, X2 offers the latest in image rendering performance and quality.

Easy Updates

With the dynamic VENUS platform, feature updates and enhancements are easily and reliably installed via USB

Reliability Matters

X2 includes auto temperature sensing, with variable speed smart fan control. Additionally fans are also slotted allowing easy user maintenance for cleaning.
On board intelligent power control is included. With a optional redundant power supply fitted, X2 will switch power supply without loss in the event of a power source failure.

Ready for Now

HDMI Category 2 Cables are supported, with Hi Speed transmission for HDMI 1.3 signals and longer, up to 15m, cables.
Display Port 1.2 standard is likewise supported for greater bandwith and performance.

Arrange layers across multiple outputs

Output to multi-resolution display systems

Easy to use software

Control When Needed

No extra interfaces or boxes, X2 offers the power of control to all.

Schedule Playback

Uniquely RGBlink X2 includes capability for playback from USB devices with MPEG media as wells as JPEG and PNG image files, when a USB input is module fitted.

Further, with X2 scheduling of these media files can be programmed for daily, weekly and realtime schedules, making X2 a powerful all-one-solution for many installations.

Windows Software

X2 ships with Windows® software allowing full control of X2 via Ethernet. The RGBlink XPOSE app provides full control of features in a modern platform including virtual canvas and source streaming

Mac OSX Software

Apple® Mac laptop are often the computer of choice for video professionals, and the RGBlink XPOSE app is macOS native, able to fully control X2 remotely over Ethernet including the ability to monitor X2 inputs via IP streaming.

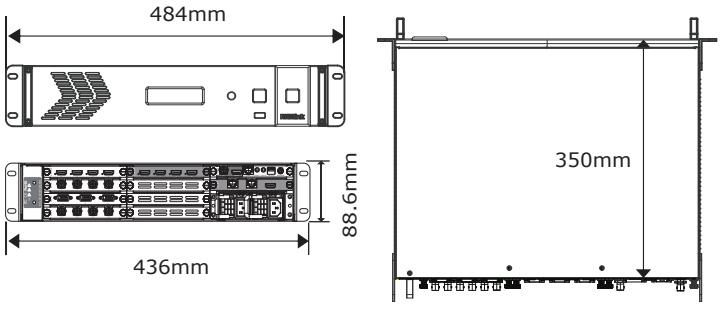
X2 VENUS

Specifications

Features	Video Layers	12 – continuous/video wall mode 8 – presentation mode 16 – routing
	Effects	Cut/Fade
	LOGO Capture	Standard
	DSK / Chroma Key Luma Key	Standard
	OSD/Subtitle/Banner Display	Standard
	Mirror/Rotate	Standard
	EDID Management	Standard
	Signal Backup	Signal & Port
Performance	Max Inputs	16
	Max Outputs	16
	Input Resolutions	DVI: VESA: 800x600 | 1024x768 | 1280x1024 | 1600x1200 | 1920x1080 | 1920x1200 | 2048x1152 HDMI: SMPTE: 480i | 576i | 720p | 1080i | 1080p VESA: 800x600 | 1024x768 | 1280x720 | 1280x800 | 1280x960 | 1280x1024 | 1400x1050 | 1600x1200 | 1920x1080 | 1920x1200 | 2048x1152 SDI: 480i | 576i |720p | 1080i | 1080p | 1080psf VGA: 800x600 | 1024x768 | 1280x1024 | 1600x1200 | 1920x1080 | 1920x1200 4K (1×HDMI-A 1.4、1×DisplayPort 1.2): VESA: 3840x2160x24 | 3840x2160x25 | 3840x2160x30 SMPTE: 625/25/50 PAL | 525/29.97/59.94 NTSC | 1080P50/59.94/60 | 1080i50/59.94/60 | 720p50/59.94/60 Refresh Rate: 23.98/24/25/29.97/30/50/59.94/60Hz
	Output Resolutions	Select from a standard set or select user configurable (custom) SMPTE: 625/25/50 PAL | 525/29.97/59.94 NTSC | 1080p@50/59.94/60 1080i@50/59.94/60 720p@50/59.94/60 1280x720@23.98/24/25/29.97/30 | 1920x1080@23.98/24/25/29.97/30 VESA: 800x600@60 | 1024x768@60/75/85 | 1280x720@60/60 1280x800@60 1280x1024@60 | 1360x768@60 1366x768@60 1400x1050@60 1440x900@60 | 1600x1200@60 |1680x1050@60 | 1920x1080@60 1920x1200@60 | 2048x1152@60 | 2560x816@60
	Standards	HDMI: 1.3 (1.4 on 4K Input) VGA: UXGA DisplayPort: 1.2 SDI: SMPTE 425M (Level A & B) | SMPTE 424M SMPTE 292M | SMPTE 259M-C | DVB-ASI IP Streaming: H.264 USB: MPEG4, AVI, PNG, JPG
	LayerLink™	Yes - HDMI
	Preview Signals	HDMI, H.264
	Grey Scale Processing	12bit
	Processing Engine	10bit
	Genlock	HS & VS
	Digital Reference Input	Yes, HDMI 1.3
	Remote Control & Configuration	Yes, XPOSE
Connectors	Video Input	All optional – see Input Module options
	Video Output	All optional – see Output Module options
	Preview Output	2 x RJ45, 1 x HDMI
	Genlock Input	1 x BNC
	Digital Reference Input	1 x HDMI
	LAN	1 x RJ45
	uLink	2 x 6.5mm mini Jack
	Wi-Fi	FME Female (Wi-Fi module sold separately)
	Power	IEC
Power	Input Voltage	100V-240V 50/50Hz Auto Ranging
	Redundant Power Supply	Optional
	Max Power	200W
Operation	Temperature	0°C -40°C
	Humidity	10-85% RH
Physical	Format	2U
	Dimensions	Device: 484x415x89mm Packed: 585x405x195mm
	Weight	Nett: 12.0kg Packed: 16.5kg

Ordering Codes

Product Code	Item
310-0004-01-0	X2
190-0002-02-1	Quad HDMI Input Module
190-0002-03-0	Triple VGA/YPbPr Input Module
190-0002-04-1	Quad SDI Input Module
190-0002-05-1	Quad CVBS Input Module
190-0002-09-1	Quad Streaming Input Module
190-0002-10-1	Quad USB Input Module
190-0002-11-0	4K Input Module (DP/HDMI)
190-0002-01-1	DualLink DVI Input Module*
190-0002-06-1	Quad HDBaseT Input Module*
190-0002-07-1	Quad FiberPort Input Module*
190-0002-22-1	HDMI Output Module
190-0002-24-0	SDI Output Module
190-0002-28-0	Streaming Output Module
190-0002-25-0	HDBaseT Output Module*
190-0002-26-0	FiberPort Output Module*
190-0002-27-0	DisplayPort Output Module*
190-0001-12-0	Wi-Fi Module
950-0001-00-0	Hot Swap PSU 200W



HDMI™ HDCP™

WEB: www.rgblink.com EMAIL: sales@rgblink.com PHONE: +86 592 5771197

*Proudly designed and manufactured in **Xiamen** Hi Technology Zone, China*

RGBlink™

www.rgblink.com