X³

VENUS

Universal Presentation Processing
Performance Quality

RGBlink®

X3 VENUS

Presentation Expanded

A scalable and expandable presentation and video wall processor, Venus X3 is user configurable for a wide range of inputs and outputs. With a ruggedized 3RU housing Venus X3 is ideal for production use and hi performance environments.

The modular design allows Venus X3 to be configured with up to 16 inputs and 8 outputs. For broadcast applications 3G-SDI inputs and output options are available in addition to other common signals. Uniquely, X3 has a USB module – MPEG4 videos can not only be played back directly from X3, but also scheduled and included in pre-sets. X3 also has an option for 4K input allowing distribution from DualLink DVI, HDMI 1.4 or DisplayPort connections.

3rd generation Venus platform provides high performance video scaling and superior image quality.

Multiple Venus X3 devices can be cascaded to create very large display arrays with full sync thanks to Genlock support, and a dedicated high speed video/graphic bus maintains real time performance even under heavy input loads.

X3 touch includes an on board touch screen for hands-on immediate control, while the X3 express and lite models are controlled from any one of a range of remote apps or the CP2048 remote control console.

Venus X3 provides a high performance, highly reliable display processing solution - ideal for a wide range of applications from live presentations to mission critical 24/7 monitoring environments and broadcasting systems.

Fully featured, Venus X3 is incredibly easy to use and designed for the video professional.

Presentation Switching

For presentation switching mode operations, a fully configured X3 can perform independent Program and Preview operations – each of Program and Preview with up to 4+1 layers. The functionality is any-layer-to-any-layer, with a source able to be on both Program and Preview each scaled and positioned individually.

Layouts can be saved into Banks for recall by an operator on demand without any sync loss and with smooth transition.

Switching between pre-sets is seamless with CUT or Fade effects.

Continuous Display

As a video wall controller, or for standard continuous display operations, Venus X3 can layer/window up to 8 sources simultaneously across all 8 outputs (when fitted).

Modular Design

Venus X3 features six slots – four for input modules and 2 slots for output modules. The output modules are colored for easy visual identification. This modular design allows for maximum flexibility with a wide range of signal combinations possible to suit differing requirements, while also being adaptable to future demands.

Further, both the Comm. control interface and power supply are modular also for easy maintenance and cleaning.
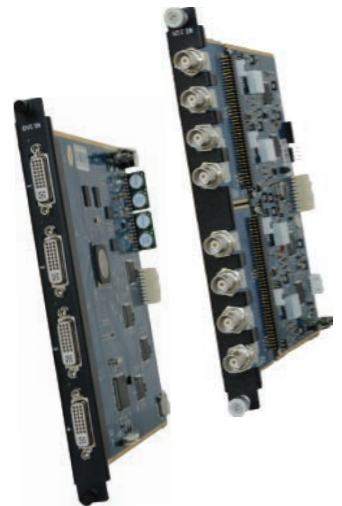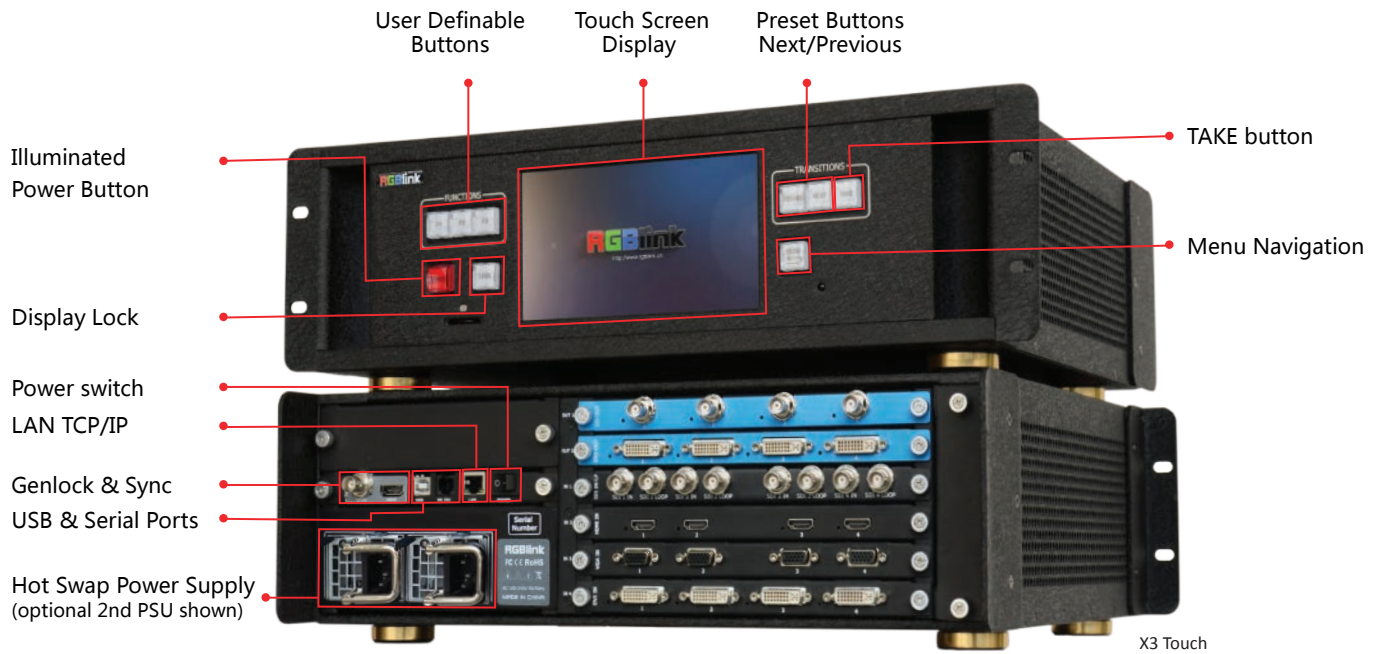
16 Mega Pixel Capacity

Output up to 16 Mega Pixels for up to 8192×2304@60Hz output. Venus X3 is easily integrated into 4K environments, and X3 is an ideal pixel splicing solution for multi-pitch LED displays.

User Definable Buttons

Touch Screen Display

Preset Buttons Next/Previous

TAKE button

Illuminated Power Button

Menu Navigation

Display Lock

Power switch
LAN TCP/IP

Genlock & Sync
USB & Serial Ports

Hot Swap Power Supply
(optional 2nd PSU shown)

X3 Touch

Layer Merge

For Preview or control room operations, inputs can be merged into single layers

Zoom

Venus X3 includes RGBlink 3rd generation high performance scaling engine ensuring the most impressive image quality whether zooming in or out, perfectly maintaining sync even where images overlap separate outputs.

Transitions

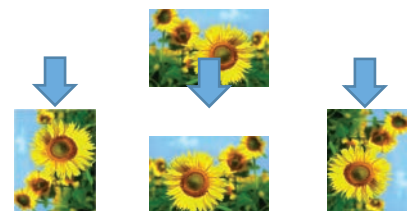In addition to Cut and Fade, layers can fly-in / fly-out for effect

DSK

Any layer can be a Downstream Key either Lumia or Chroma

Rotation

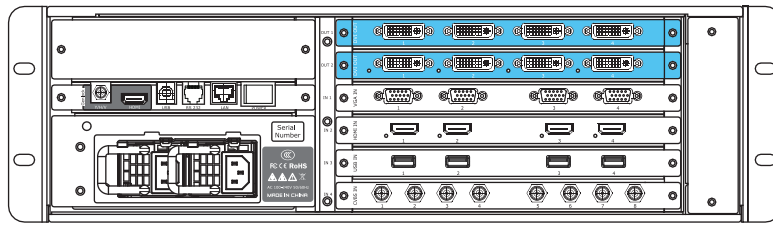Rotate and flip. Outputs can be rotated in 90 degree increments

GenLock

Uniquely, X3 includes Genlock with standard CVBS signal plus an HDMI reference input. Synchronization and timing control for multiple X3 devices cascaded or with other external sources is ensured with this feature for seamless switching and sync splicing.

Remote Control

Venus X3 offers the ultimate in remote control choice. Not only is there a native Windows® app, X3 offers a native Apple® OSX app for video professionals. In recognition of modern communications RGBlink has apps for iPhone, iPad and Android. And Venus X3 has an optional remote control console, the CP2048, ideal for intensive live operations.

X3 Back Panel with:
Optional redundant power supply system fitted,
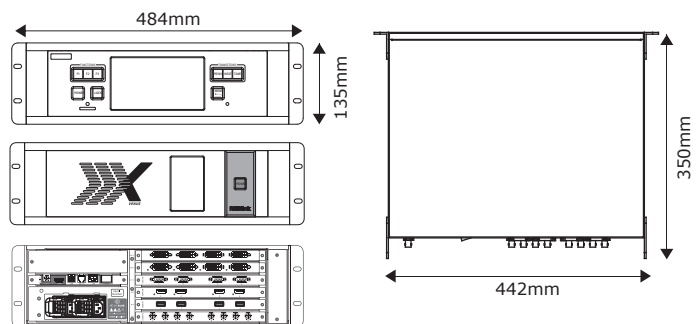Full set of input and output options fitted

Specifications

Inputs	SmartSlots	4
	Inputs per Card	4
	Inputs per Card-CVBS	8
	Signals Supported	HDMI 1.3, DVI-I, SDI (SD/HD/3G), USB 2.0, CVBS, VGA, YPbPr (on VGA), DisplayPort 1.2
Outputs	Output SmartSlots	2
	Outputs per Card	4
	Signals Supported	HDMI 1.3, DVI-I, SDI (SD/HD/3G), VGA
Communications Ports	Network	TCP/IP
	Serial	RS232
	USB	2.0
Performance	Input Resolution	CVBS: 480i PAL | 576i NTSC
		SDI: 720p | 1080i | 1080p | 1080psf
		1440x487 | 1440x576
		VGA: 800x600 | 1024x768 | 1280x1024 | 1440x900 | 1600x1200
		DVI&HDMI: SMPTE: 625 PAL | 525 NTSC | 720p | 1080p | 1080i
		VESA: 800x600 | 1024x768 | 1280x768 | 1280x1024 | 1600x1200 | 1920x1080
		4K: 2560x1600 | 3840x1080 | 3840x2160
	Output Resolution	Select from standard set or select user configurable
		SMPTE: 625 PAL | 525 NTSC | 1080p| 1080i | 720p | 1280x720 | 1920x1080
		VESA: 800x600 | 1024x768 | 1280x720 | 1280x800 | 1280x1024 | 1360x768 | 1366x768 | 1400x1050
		1440x900 | 1600x1200 | 1680x1050 | 1920x1080 | 1920x1200 | 2048x1152 | 2560x816
		*not all resolutions supported on VGA
	Genlock	480i | 576i | 720p | 1080i | 1080p | 1080psf
	Refresh Rates	23.98 | 24 | 25 | 29.97 | 30 | 50 | 59.94 | 60 | 75
	Standards Supported	SDI: SMPTE 425M (Level A) | SMPTE 424M | SMPTE 292M | SMPTE 259M-C | DVB-ASI
		VGA: VGA-UXGA
		HDMI: 1.3
		DisplayPort: 1.2
Features	Grayscale Processing	12bit
	Max Layers (switching operations)	5+1
	Image Scaling and Sampling	High Quality
	Processing	10 bit
	Effects	Cut, Fade, Fly-in/Fly-out
	LOGO Capture	Standard
	DSK	Standard
	Chroma & Luma Key	Standard
	OSD/Subtitle/Banner Display	Standard
	Mirror/Rotate	standard
	EDID management	standard
	Signal Backup	standard
	GenLock	HS & VS
	Reference Input	HDMI 1.3
	User Modes	Admin/user
	Remote Diagnostics and Monitoring	standard
	Remote Control Apps	Windows®, Mac OSX®, iPad®, Android®
Environmental	Operation Temperature Range	0°C - 40°C
	Operation Humidity Range	10% - 85%
Electrical	Input Power	100V-240V 50/60-Hz Auto-ranging
	Max Power	72W
	Power Supply	Exchangeable (optional redundant power supply available to order)
	Power Monitoring	Option for X3 express
Physical	Format	3U 19" Rack Mounting
	Device Dimensions	485 x 387 x 135mm
	Packed Dimensions	635 x 545 x 275mm
	Device Weight	12.3kg
	Packed (net) Weight	20.4kg

Order Codes

Product Code	Item
310-0003-01-0	X3 Touch
310-0003-11-0	X3 Express
310-0003-12-0	X3 Express DVI
310-0003-13-0	X3 Express SDI
190-0003-01-0	Quad DVI Input Module
190-0003-02-1	Quad HDMI Input Module
190-0003-03-0	Quad VGA Input Module
190-0003-04-0	Quad SDI Input Module
190-0003-06-0	8 Way CVBS Input Module
190-0003-07-0	Quad USB Input Module
190-0003-11-0	4K Input Module (DVI/HDMI/DisplayPort)
190-0003-21-0	Quad DVI Output Module
190-0003-22-0	Quad HDMI Output Module
190-0003-23-0	Quad VGA Output Module
190-0003-24-0	Quad SDI Output Module

Dimensions

484mm

135mm

350mm

442mm

HDMI™

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

RGBlink®