GRAPHITE

Real Switcher. Real Graphics. Real Audio. Graphite is an all-inclusive system that combines superb big switcher performance with visually stunning 3D graphics, instant access clip servers and pristine audio clarity – all with the reliability of separate system components.



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Kategorie: Video, Broadcast, Miksery wizyjne



GALLERY IMAGES















OPIS

Compact Production Solution

Graphite provides a full production solution within a single 4RU frame. This simplifies connectivity, saves space, and makes it easy to take top-quality productions on the road.

Ultra-Reliable

Rely on a system with consistent performance and immunity to traditional all-in-one software issues, thanks to unique dedicated hardware.

Ultra-Durable

Built to withstand the rigors of a mobile production with carefully engineered physical construction. Graphite systems are extensively shake and bake tested before shipping.

Fully-Equipped System

Every aspect of the Graphite system is built with the quality of separate system components. The value of a single all-in-one system with no need for external supplement cannot be overstated.

Flexible Workflow

Crew your show as you see fit. A single operator can run an entire show through all-encompassing control, or roles can be separated for multiple operators during high-intensity events.

Incremental Growth

Switcher resources and graphics power can be upgraded via software licences – and additional equipment is available through a single vendor for effortless integration and guaranteed support.

FEATURES

Carbonite Switcher

Switch with confidence on Carbonite – the hallmark Ross Video product. Decades of production switcher experience have gone into this mid-sized power house, resulting in a truly incredible feature-set.

XPression Graphics

Near limitless layering on a single channel, with true 3D objects and animations, XPression Graphite is the motion graphics engine that simply can’t be matched by other all-in-one systems.

Integrated Clip Server

Creatively utilize video clips with instant access and frame accurate recall with XPression Clips. Record video or store XPression Graphite animations for use in your productions.

Unmatched Audio

Handle demanding live audio with the professional 48-channel RAVE audio mixer. The dedicated audio mixer features 24-bit processing with sample rate conversion on selected inputs, SDI-embedded channel pair management, and channel-by-channel audio EQ and Compression/Limiting.

DashBoard Control

Create a control workflow for your specific production environment, with DashBoard network control software.

Graphite PCIe

Graphite is built with unique hardware to ensure high quality performance and total reliability.

AUDIO MIXER EVOLVED

Available on Graphite V4.0

With the latest software version release, Graphite’s internal RAVE audio mixer is better equipped than ever to handle live productions with seriously demanding audio requirements:

Huge channel capacity
RAVE audio can access all 16 channels of each SDI input; for a 12-input system, that’s 192 available channels! Add audio from internal sources and optional Audio Breakout Units, and the RAVE channel count maxes out at an astounding 276 available input channels!

Embedded-SDI Channel Pair Mastery
Efficiently receive and distribute audio with access to all 8 embedded channel pairs on SDI-inputs and SDI-outputs. Take a channel pair from any SDI-input and assign it to any available fader in the mixer; and configure SDI-output channels with passthrough, all mixes, Main mix,

Monitor mix and custom aux mixes.

Audio Dynamic Processing
A must have for microphone-heavy productions, dynamic processing provides EQ, Compression and Limiting for all mixer channels. Powerful technical and creative tools, drawing out the best parts of your sound and removing those undesirable elements. The RAVE audio mixer’s dynamics get the best out of every channel in the mix.

Sample Rate Conversion
Maintain consistent 24-bit broadcast-quality audio with sample rate conversion on AES and SDI inputs (BNCs 1-6).

Assignable AFV
Simplify audio management by configuring the Audio Follow Video (AFV) video source on a fader-by-fader basis. For example, tether various commentator lapel mics to specific camera shots in your production.

More AUXs
More custom mixes are good custom mixes. The number of audio AUX layers has been increased from 6 to 12, allowing for more mix/minus feeds, multi-lingual feeds, and other unique output feeds.

More Faders
The RAVE audio mixer now supports up to 48 faders. Take loads of embedded SDI-channels into your mixer, or connect up to 3 audio modules for up to 24 analog/microphones with plenty of configurable channels to spare.

Included Graphics Templates

Get started with fluid graphics right out of the box.
Graphite ships with a complete package of easily-customized graphic templates designed by Ross Video’s creative services team – Rocket Surgery.

Graphite PPC

Portable Production Centre - Coming Soon!

Introducing the Graphite Portable Production Centre (PPC); a complete production solution neatly housed in a single compact carrying case. This powerful all-in-one production platform combines big switcher performance, stunning XPression graphics, instant-access clip servers and pristine RAVE audio with unmatched portability and ease of operation. Like Graphite, the Portable Production Centre can be run by a single operator and its ultra-quiet fan means it can be deployed just about anywhere, even next to on air talent!

Carbonite Black 3X Panel

The Carbonite Black 3X panel is the flagship of the Carbonite Black panel line, it is great to look at and a joy to operate. The CB3X has Acuity style faders and dedicated 32-button source select rows, it also has dedicated ME row selection buttons for instant control of any ME or MiniME on any row as well as 8 Custom Control bank select buttons, allowing a whopping 256 Custom Control Macros to reside on the panel for direct selection at any time.

Specifications

Graphite comes in a variety of ME & Input configurations:

MIX EFFECT BUSES	INPUTS	OUTPUTS
2ME	13 IN (12 SDI + 1 HDMI)	8 OUT (6 SDI + 2 HDMI)
2ME	9 IN (8 SDI + 1 HDMI)	8 OUT (6 SDI + 2 HDMI)
1ME	9 IN (8 SDI + 1 HDMI)	8 OUT (6 SDI + 2 HDMI)
1ME	5 IN (4 SDI + 1 HDMI)	8 OUT (6 SDI + 2 HDMI)*

** On 5 input systems 2 output selections can be made available across all outputs.*

STANDARD FEATURES	GRAPHITE FRAME
External inputs (SDI)	Up to 12
External inputs (HDMI)	1
Internal Inputs	10 Single Channel XPression (Video & Key) 2 Channels of XPression Clips (Video & Key) 4 Channels of Media Storage

STANDARD FEATURES	GRAPHITE FRAME
Outputs (SDI)	6
Outputs (HDMI)	2

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Graphite Switcher

STANDARD FEATURES	GRAPHITE SWITCHER
Number of Full MEs	Up to 2
Number of MiniMEs	4
Number of MultiViewers with Tally and Source Names	2 (up to 16 windows each)
Internal Format Converters / Frame Synchronizers	6 (Assignable to first six inputs)
Number of 2D DVEs	4 – Assignable to: Full M/E Transition Engines Full M/E Keyers MiniME Keyers
Reference Input	Black or Tri-Level
Number of Keys PER ME	5 (4 Full keyers + 1 Transition Key)
Number of Keyers per MiniME	2
Number of Ultrachrome Keyers	2 – Assignable to: Full M/E Keyers MiniME Key 2 Keyers
Number of MediaStores (2GB capacity)	4 (Shared 2GB total capacity)
Supported Media File Types	.BMP (no Alpha) .JPG (no Alpha) .TGA (with or without Alpha) .PNG (with or without Alpha) 48k WAV audio

STANDARD FEATURES	GRAPHITE SWITCHER
Browser-Based Graphics Management	
Pattern Generators	2 per Full ME
Animated MediaWipes	Available on all Full M/Es
Direct Transfer of XPression Stills to MediaStores via Ethernet	+
LiveEDL (generates an edit decision list for use in post-production)	+

CONTROL INTERFACES	GRAPHITE
Carbonite Black Control Panels	+
DashBoard LiveAssist	+
ViewControl – Visual Production Control	+

SIGNAL PROCESSING FORMAT	GRAPHITE
Standard Definition	480i/59.94 & 576i/50
High Definition (1.5Gb/s)	1080p/25 & 29.97, 720p & 1080i 50/59.94
High Definition (3Gb/s)	1080p/50 & 59.94 (3Gb)

CONTROL PROTOCOLS	GRAPHITE
RossTalk™	+
AMP	+
Yamaha 01V96 & DM1000	+
PBUS	+
TSL UMD 3.1	+
VISCA	+
Canon BU series	+

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Graphics

GRAPHITE SINGLE-CHANNEL XPRESSION PRIME STANDARD FEATURES	XPRESSION GRAPHITE
Template Designer	+
Playout Sequencer	+
2D / 3D Fonts	+
Arabic, Asian & Scripted Language Support	+
3D Primitives	+
Imported 3D Models	x
Video Clip Support (within a template)	+
XPression Video Codec License	+
XPression Video Coder Application	+
Automated File-based Ingest, Transcoding & Publishing	Optional
Animation Timeline	+
Graphical Keyframe Editor	+
Continuous Animations	+
Stagger Animations	+
Visual Logic	+
Virtual Cameras	+
Seamless Continuous Tickers	+
TrueD! Anaglyphic Stereoscopic Preview	+
Render to Disk	+
Output Framebuffer Layers	Unlimited
Virtual Preview Channels (up next & look-ahead)	2 per channel
High Definition Formats (HD)	+

GRAPHITE SINGLE-CHANNEL XPRESSION PRIME STANDARD FEATURES	XPRESSION GRAPHITE
Standard Definition Formats (SD)	+
Project Video Format Conversion	+
Custom Resolution Video Formats (DVI Out)	+
RossTalk (TCP/IP Strings)	+
P-bus	+
DashBoard Sequencer Control	+

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GRAPHITE XPRESSION CLIPS STANDARD FEATURES	
Baseband Video Ingets Channels	1
Playout Channels	2
No Pre-roll	+
Single-channel Clip transitions	+
Per channel Program/Preview	+
Clip Browser with Search function	+
Clip trimming and looping	+
VDCP, AMP, P-bus, and RossTalk automation protocols	+
P-bus Manager for intelligent clip assignment	+
Clip Manager application with user rights or database management and synchronization setup	+

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RAVE AUDIO MIXER

RAVE AUDIO MIXER STANDARD FEATURES	GRAPHITE
48 Stereo Mixer Channels	Available Sources: Up to 12 SDI-Embedded 16 Channel sources (192) 8 Stereo PC sources (16) 2 Stereo MediaStore sources (4) Up to 4 x 16 Channel XPression sources (64)
Fader Volume	-∞db to + 20db
Pre-Fade Audio Meter	+
Pre-Fade Peak Indicator	+
Post-Fade Audio Meter	+
Post-Fade Peak Indicator	+
Per-Channel EQ Indicator	+
Per-Channel Clip Indicator	+
Mute	+
Solo	+
Solo Clear	+
Pre-Fade Listen (PFL)	+
PFL Clear	+
Aux Mixers	12 – assignable pre- or post- fader
Configurable Audio Outputs	SDI-embedded audio output channels PC Audio Output
Selectable embedded SDI-channel pairs	8 channel pairs per SDI-input Assignable to any fader
Sample Rate Converters	Available to Input BNCs 1-6 (16-channels)
Balance Control on Stereo Inputs	
Pan Control on Mono Inputs	

RAVE AUDIO MIXER STANDARD FEATURES	GRAPHITE
Mono Mode	Duplication of Mono channel (L or R) to create L-L / R-R channel pair
Audio Follow Video (Assignable)	
Audio EQ	4-band EQ control on each fader (high shelf, dual midrange, low- shelf)
Compression/Limiting	Channel-by-channel Compression/Limiting with variable Attack & Release parameters (Assignable pre- or post-EQ)

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Optional Features

GRAPHITE SWITCHER OPTIONS	GRAPHITE SWTICHER
5 SDI Input to 9 SDI Input Upgrade (Adds an additional 4 SDI Inputs)	Contact Ross Sales for details & ordering
9 SDI Input to 13 SDI Input Upgrade (Adds an additional 4 SDI Inputs)	Contact Ross Sales for details & ordering
1 M/E to 2 M/E Upgrade (Adds additional Full M/E bank)	Contact Ross Sales for details & ordering
AJA Helo Streaming Appliance (Single-channel Streaming Device)	Contact Ross Sales for details & ordering
HDBNC to BNC kit with 20 cables	Contact Ross Sales for details & ordering

XPRESSION OPTIONS	XPRESSION
Studio Single Channel Edition (SCE)	Contact Ross Sales for details & ordering

XPRESSION OPTIONS	XPRESSION
Studio Multi-Channel	Contact Ross Sales for details & ordering
Project Server	Contact Ross Sales for details & ordering
openMAM™ Connectivity	Contact Ross Sales for details & ordering
Ross Streamline Asset/Order Management	Contact Ross Sales for details & ordering
DataLinq Server	Contact Ross Sales for details & ordering
XPression Gateway	Contact Ross Sales for details & ordering
MOS Plug-in	Contact Ross Sales for details & ordering
NLE Plug-in	Contact Ross Sales for details & ordering
Template Builder	Contact Ross Sales for details & ordering
CII Gateway	Contact Ross Sales for details & ordering
Desktop Preview Server	Contact Ross Sales for details & ordering
XPRession Tessera	Contact Ross Sales for details & ordering
Custom Keyboard	Contact Ross Sales for details & ordering

RAVE AUDIO OPTIONS	RAVE AUIO BREAKOUT MODULE
RAVE Audio Breakout Module	
1RU External Audio Breakout Module (ABM) which provides:	
Analog Inputs	8
Analog Outputs	5
AES Digital Audio Inputs	1
AES Digital Audio Outputs	1
Adjustable Pre-Amps Gain on Analog Inputs	0-60dB
Phantom Power on Analog Inputs	48V
Digital Pads on Analog Inputs	-20dB
Number of GPI/O	24
Number of Tallies	16

NOTE: *All Graphite systems support up to three (3) 1RU Audio Breakout Modules which increases the total input matrix to forty- eight (48). Contact Ross Sales for details & ordering.*