

CARBONITE UltraA

Mid-size production switchers



More powerful, more compact and more affordable than ever.

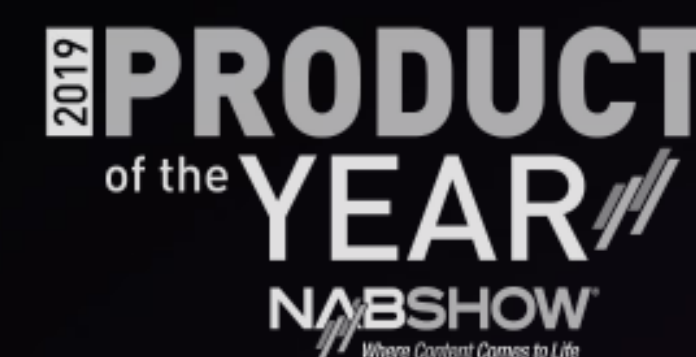
Production wizardry

Carbonite Ultra uses the latest technology to distill the best of the Carbonite production switcher series into a single, next-generation platform.



Software-defined magic

Carbonite Ultra isn't just a production switcher,
it's a software-defined live production engine.
A product that remains cutting-edge for years to
come, that's the magic of going Ross.



What is production wizardry?

The biggest 1RU production switcher ever

Carbonite Ultra's 1RU chassis packs up to 3 full MEs & 4 built-in MiniMEs, equivalent to a 11ME switcher with 28 key channels.

More affordable than ever

With a starting price of \$12,500*, Carbonite Ultra reduces the cost of the essential Ross mid-size production switcher feature set by a huge margin.*

*USA pricing, international pricing will vary.

Engaging media rich productions

Boost your visuals with full-length video clips, animated logos, lively media-effect transitions, and great-looking still graphics. Carbonite Ultra includes a dedicated single-channel USB media player, 4 key+fill MediaStores and XPression LiveCG graphics software.

Crew for your production. Not your gear.

A full suite of user-tailored control interfaces – ergonomic switcher panels, custom-programmed software interfaces, and touchscreen control – make it easy to hire and retain operations staff.

Advanced features, always reliable

Every part of this production switcher is backed by dedicated hardware. Engage all the resources you need for a stunning production, without any trade-offs or surprises.

The video engineer's Swiss Army Knife

Be ready for anything a production can throw at you with full I/O signal processing resources and up to 4 MultiViewers.

Maximum quality visuals

Support for HDR and WCG formats, along with bi-directional format conversion and quick-select colour temperature presets.

Wise investment for the 12G/UHD future

Major 12G/UHD Feature set that can't be matched by other mid-size production switchers.

11ME Ross performance

1-3 Full MEs

Major effects and keying power in every ME. Carbonite Ultra's main MEs have 5 powerful keyers: 4 for luma, linear, chroma and DVE key types – and a 5th for dedicated transition keyer for DVE and MediaWipe transitions. Each ME also contains 2 advanced pattern generators for wipes, pattern masks and color washes. Clean feed outputs are available for every ME.

4 Built-in MiniMEs

MiniMEs aren't so mini anymore. Carbonite Ultra's MiniMEs function exactly like full next-transition / preview MEs, with 2 full function keyers and full look-ahead preview. MiniMEs are great for pre-branding inputs, pre-building a chroma key, or putting an overlay on a DVE key-heavy ME output.

Total Layering Freedom

Compose MEs and MiniMEs anyway you desire. Carbonite Ultra isn't restrained by a fixed signal flow. Use your switcher resources in the way that best suits your final program output.

8 Floating DVEs

Each channel of floating DVE is accessible to any ME or MiniME in the system, making it easy to compose multi-box shots where you choose.

True Perspective with 3D Borders

Create visual impact by adding true perspective to DVEs with 4 DVE+ perspective engines. Complete the look with 3D borders, lighting and shadows.

UltraScene

As an easy-to-use layering tool UltraScene enabled complex composites to be managed as a single source. With UltraScene, up to 8 layers can be used to create visually interesting composites consisting of keys, chromakeys, DVE boxes, and more. UltraScenes can be entered into MEs and MiniMEs as Background or Key sources, just like any other source in the switcher.

Monitor everything

In today's live productions, you have to deal with multiple sources, multiple outputs and lots of different destinations. Carbonite Ultra can be configured with up to 4 MultiViewers for viewing of up to 64 independent video channels, to give you the extensive monitoring you need:

16-window MultiViewers

- 2 I/O MultiViewers: Monitor the physical inputs and outputs of the switcher.
- 2 System MultiViewers: Monitor anything - ME outputs, keyer outputs, MediaStores, chroma keyers, anything.
- 2 MultiViewers (1 of each) are included as standard, the 2 additional MultiViewers are available via software license.

Each MultiViewer has user-selectable layouts with the individual choice of border tally and UMD label display for each source. In addition, a user-configurable clock can be sized and positioned anywhere on the MultiViewer screen.



Sounds as Good as it Looks

Professional Audio Mixing built right inside. With 384 input channels and 13 x 48 channel stereo mixers you can produce pristine sound in tandem with those great looking visuals. Audio sample rate conversion, embed/disembed, EQ, Limiting and Compression come right along with Ultra's powerful RAVE audio license. You can even add up to 24 mic inputs with the optional Audio Breakout Modules (ABMs).



USB Media Player

When operating in SD or HD production formats, Carbonite Ultra offers a dedicated single-channel clip player for playout of compressed MPEG-4 AVC media directly from a connected USB-media drive.

Load media files onto a USB drive, plug it into Carbonite Ultra and playback full-length video clips as part of your production - with clip audio readily-available to your audio mixer via Carbonite Ultra's assignable AES audio outputs.

Assign the internal clip-player to any bus in the switcher and control playout from a dedicated DashBoard interface, Custom Controls, or AMP commands. This is a Ross-exclusive feature not found in any other production switcher on the market.



Create *your look*

4 Key + Fill MediaStores

Incorporate stills, logos, and animated graphics in virtually any common file format. Each of the 4 MediaStore channels handles key+fill media with audio, with support for standalone WAV files for audio effects and music beds. All MediaStores are available switcher-wide as a source or key, while the 8GB cache of MediaStore is manageable from the panels or the highly-visual and intuitive MediaManager interface.

Included XPression LiveCG

Includes high-end XPression LiveCG still graphics software. XPression is one of the industry's leading graphics packages, used in major live broadcasts across the world. From an Ethernet-connected laptop, XPression LiveCG renders still graphics directly into the switcher MediaStores for use in your production.

Brilliance in any application

Leading-Edge Chroma Keying

Carbonite Ultra's UltraChrome chroma key technology is simply stunning in virtual set productions. After several years of development, we've created a chroma key that rivals the quality of an external chroma keyer. An extensive toolset that includes soft-edge masks, like soft-edge masks and auto-image analysis make it easy to setup quickly and get the best results from your green screen.

Large & On-Set Display Processing

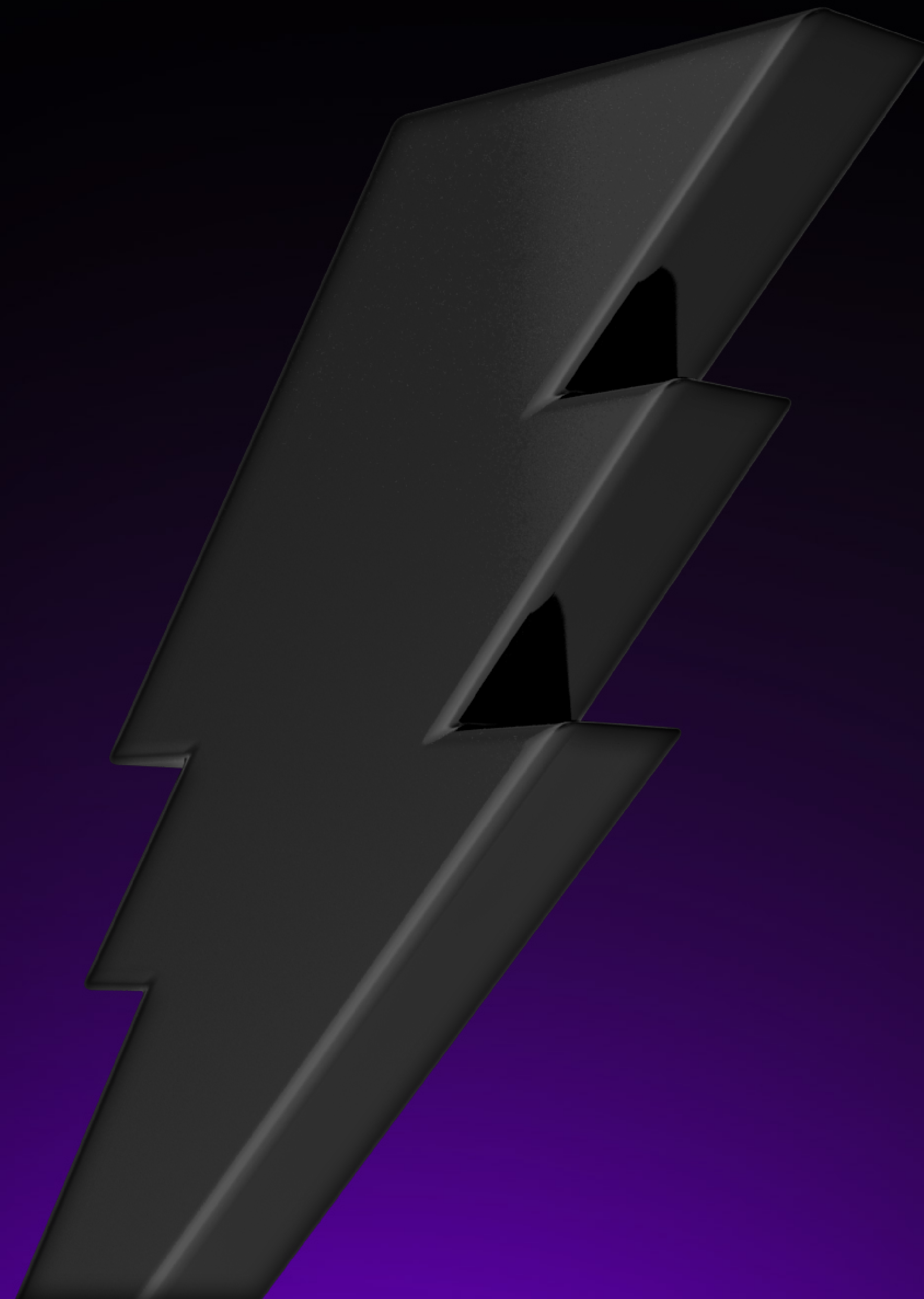
Carbonite Ultra's 4 MiniMEs form the foundation of Carbonite Ultra's Multi-Canvas Display Processing, for high-quality video scaling across large or multi-screen displays. Each MiniME becomes a scaler-tile for creation of composited canvas images across multiple screens. Normally you need an external display controller, but this functionality is built right into Carbonite Ultra.

MiniMEs are also great as on-set display outputs, with access to format conversion and colour correction resources to nail the on-set look.

Post Production Assistance

LiveEDL is a tribute to the people who've spent tons of time in the post-production process. The LiveEDL feature creates an edit decision list based on your timecode input, recording every source cut and transition. When your event is over, take that EDL file and plug it into your non-linear editing suite and camera ISOs to recreate the event exactly as you cut it (and correct those small mistakes and bad cuts). With LiveEDL you can recreate your productions in a fraction of the time.

Lightning-Fast Operations



Custom Control Timelineable Macros

Condense multi-step events – including internal switcher resources and external gear - into a single-button push with Carbonite Ultra's powerful custom control macros. Record events, recalls, pauses, holds and control devices directly from a TouchDrive™ panel or DashBoard GUI – and edit your macro timeline as needed.

Memories

Patented Memory AI Recall mode automatically assigns free resources to create the effect in Preview without interrupting Program in any way, not matter what resources were used in the Memory. Take a snapshot of everything going on in the switcher - ME sources & key settings, Program and Preview channels, DVE and positions, chroma keys, MediaStore settings and more - and recall the specific elements you want. The granular nature of Carbonite Ultra's memory system means that you can save just the sections you need. Complex effect sequences can be reduced to a single button-press by combining Memories and Custom Control macros.

Production Sequencer

This advanced feature enables operators to automate simple and repeatable elements within a live production. As a convenient tool, Production Sequencer allows for a series of tasks, events or device controls to be linked together while complementing existing Memory and Custom Control macro capabilities.

Editor

For editor and RS-422 control

Ethernet Connectivity

For panel connections and use with ViewControl, DashBoard LiveAssist, XPression LiveCG, LiveEDL, FTP, browser-based GUI, diagnostics and more!

Tally & GPIO Interface

- 24 Contact Closure Tallies
- 24 GPIO individually selectable to input or output

Time Code Input

For use with LiveEDL, to generate an EDL file for post-production suites

AES Digital Audio Outputs

For audio assignable outputs from RAVE audio engine.



Optional Redundant Power

Compatible with standard or Ultripower rackmount power supply. Power both Carbonite Ultra and Ultrix Routers from a single Ultripower unit.

Built-in Reference Generator

- Black Burst or Tri-Level sync input
- Black Burst output is configurable for H/V offset from input reference

4 MultiViewer Outputs

- 4 x 16 window MultiViewer outputs
- 2 outputs in 12G/UHD mode

10 Configurable Outputs

- Supporting SD/HD/3G
- 10 outputs in 12G/UHD mode

24 Inputs

- Supporting SD/HD/3G
- 18 inputs in 12G/UHD mode



Diagnostics at-a-glance

FrameGlow

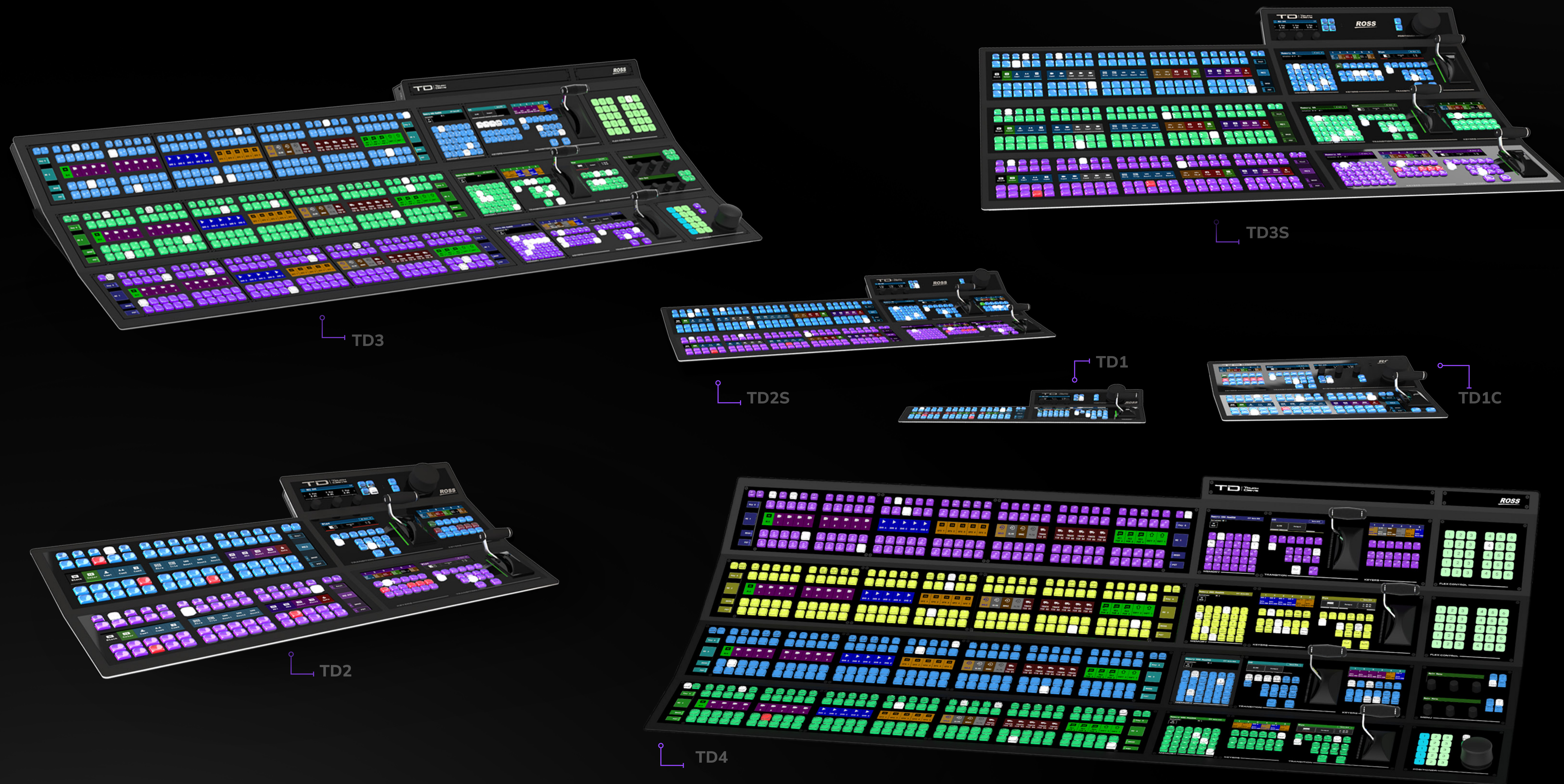
Customize the look of your switcher with a programmable RGB LED bar, because there's no reason live productions can't look cool behind the scenes. FrameGlow also provides at-a-glance diagnostics such as boot-up cycle, upgrade progress and temperature/status alerts.



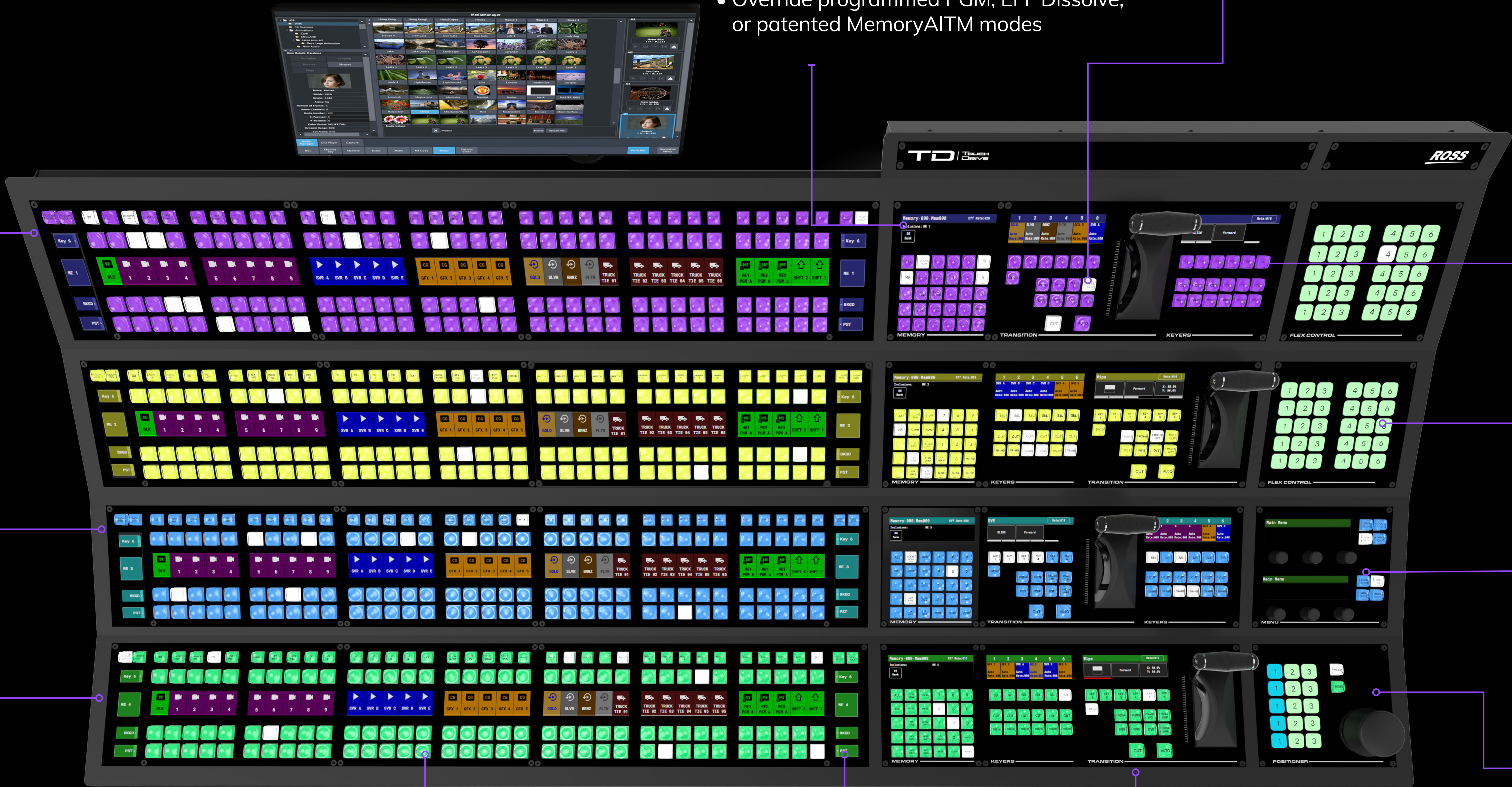
Crew for *your* production

Carbonite Ultra makes you productive immediately with a range of control choices for operators of any caliber:

Compatible with the wide range of panels. Super-ergonomic design with exclusive touch displays and the legendary Ross fader bar. Operators simply love TouchDrive™ panels for their speed and efficiency.



TD4 Features



User Buttons

- Individually assignable:
 - Select Keyer types
 - Delegate ME or Mini ME Rows
 - Assign Memory or Custom Control Banks
 - Map direct-access Custom Controls

Delegation Rows

- Delegate to control Key or Aux Bus Source assignments, Memory Recalls, or Custom Controls

IPS Touch Displays

- Display Names and Icons for Sources, Memories and Custom Control Macros
- Access Menus, Device Controls, TouchMap™, and much more

Panel Glow

- User-adjustable panel glow schemes and configurations for Keyers, MEs and more

Advanced Memory Keypads

- Global or Local Memory Control
- Link multiple ME, MiniME, Canvas and Chroma-Key levels to a single Memory store or recall
- Override programmed PGM, EFF Dissolve, or patented MemoryAITM modes

Exclusive Roll Clip Feature

- Automatically roll controlled Servers or Clip players when taken to air
- User-definable pre-roll durations

Dedicated Keyer Control Per Row

- Touch Mnemonics with full keyer information and control
- Individual Keyer delegation and control buttons
- Dedicated Keyer Cut and Auto-Trans buttons
- Provides “at-a-glance” layer status

Flex Control

- User Buttons with IPS displays
- View Custom Control Names / Memory Names
- Relative Menu

On Panel Quick Menu

- Auto-follows to provide detailed control of attributes where knobs and fine-tuning are required

6 Axis Control

- New joystick design with control for 6 Axis
- 15 IPS Dynamic Control Buttons
- Dedicated Joystick Hold and Reset Buttons

Vertical Row Display

- Full touch control
- Access row functions or TouchMap™ control
- Quickly provides menu - or function - specific operator information

Advanced Transition Control

- Industry-standard Next Transition layout
- Modify transition parameters using Touch display
- Three User Buttons for quick Memory or Custom Control assignment



DashBoard

Fully-integrated with the DashBoard control ecosystem, the open control platform that makes Ross solutions so well-integrated and unique. With the DashBoard software application you can setup, configure and operate Carbonite Ultra from any computer with a network connection.

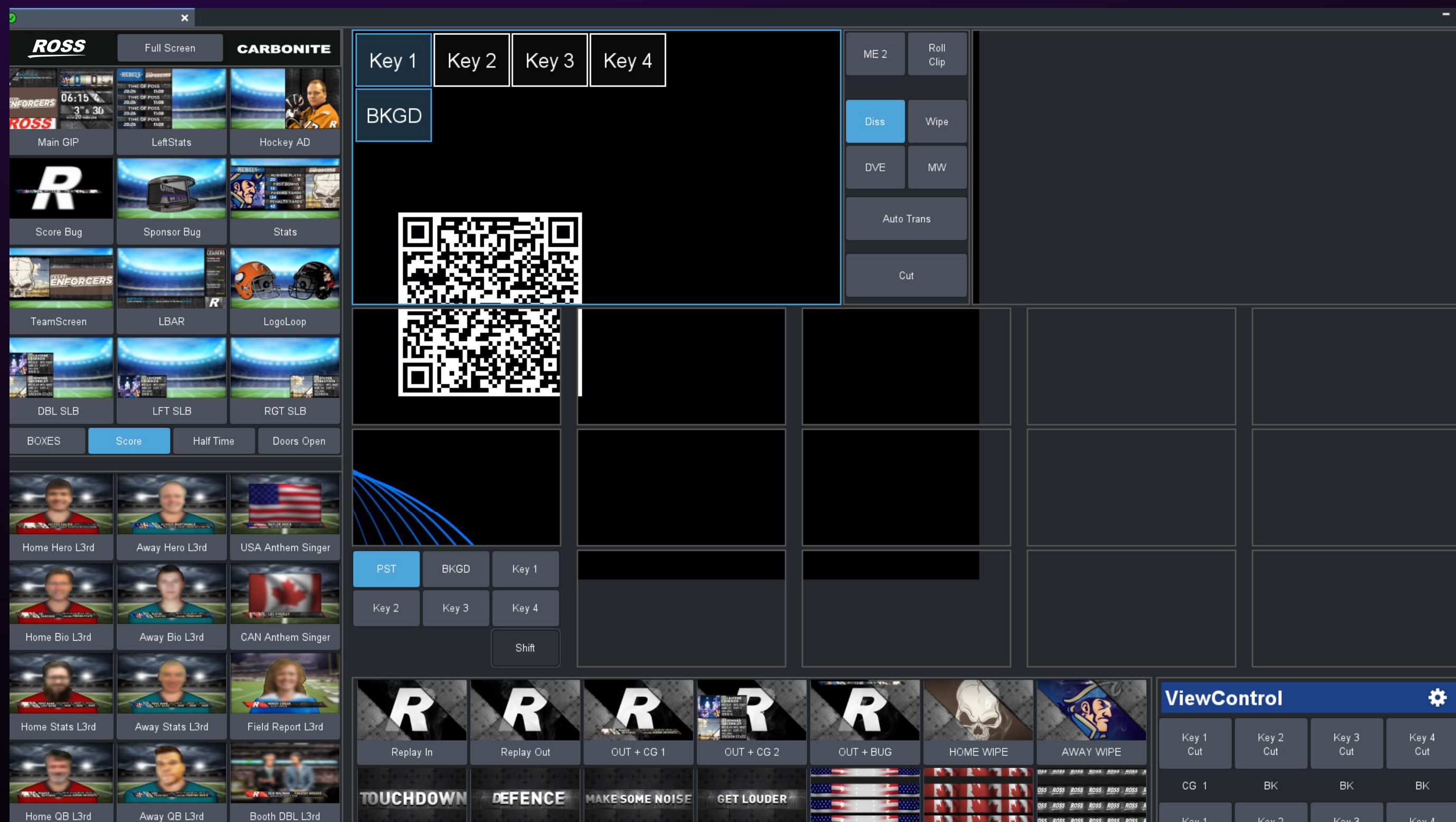
DashBoard allows you to rethink the traditional method of operating equipment and to create something much more efficient for your unique workflow. DashBoard is:

- A central component of Ross solutions
- Third-party friendly with numerous devices that don't have a Ross label.
- Open, programmable, and customizable to your workflow
- Downloadable from the Ross website
- Something you can master on your own
- Something we can help you with

Custom-tailored control will provide speed and efficiency you never thought possible.

RAVE Audio Mixing

DashBoard also provides comprehensive control of RAVE audio mixers - assign sources, program outputs, manage EQ, Compression and Limiting, even connect hardware MIDI panels for tactile control.



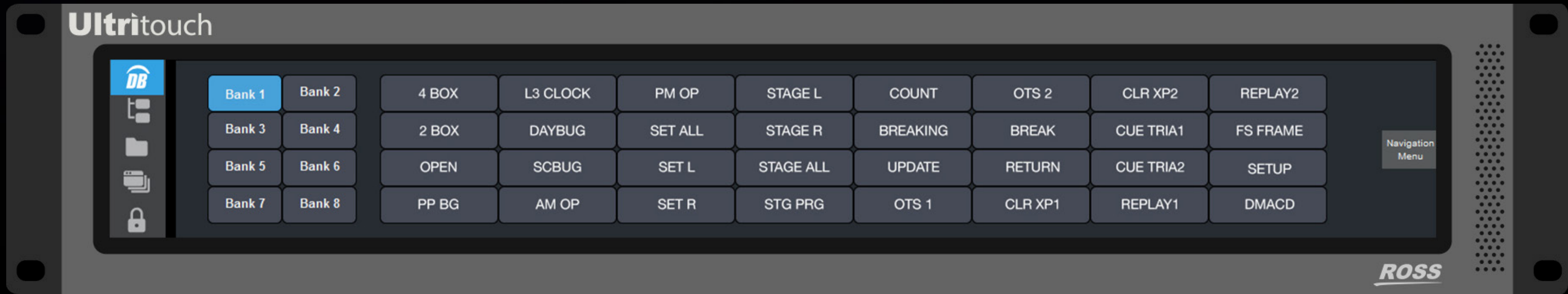
ViewControl

ViewControl Touchscreen Interface

A great choice for single operator production. The ViewControl touchscreen interface combines a live MultiViewer with DashBoard control software for self-directed production. Control your switcher, graphics system, video servers, audio devices and more – from a live touchscreen surface.

Ultritouch System Control & Monitoring Panel

Ultritouch is an adaptable touchscreen control and monitoring system, which leverages DashBoard PanelBuilder technology for creation of custom-programmed interfaces that streamline control of your show. Direct integration between Ultritouch and Carbonite Ultra make it easy to get started with purpose-built menu layouts which include: Status,



Ultritouch

Video the way you need it.

Handle wild signals, mixed video formats, and differing video colour with a full toolkit of video processing resources. Carbonite Ultra ensures you're ready for anything a live production can throw at you with a single-box solution.

Carbonite Ultra includes 8 swappable and freely-assignable video processing resources as standard:

- **Input Frame Syncs**
Make sure all your gear is on the same page with frame synchronization resources.
- **Input/Output Format Converters**
Convert external video sources to your native production format and match video outputs to the necessary receiving-end format.
- **Input/Output Proc Amps and Colour Correctors**
Apply all video corrections needed to external sources. Great for tuning onset monitors so video on the monitor will match the direct source!

For productions with serious video processing requirements, Carbonite Ultra can be outfitted with the PLUS I/O license for dedicated processing resources on every input and output.

Standalone Reference Generator

While Carbonite Ultra accepts a reference input, this production switcher can act as a standalone reference generator – great for syncing up gear in a small flight-pack or mobile application.

High Dynamic Range (HDR) & Wide Colour Gamut (WCG)

Carbonite Ultra's 10-bit SDI infrastructure handles HDR and WCG video with ease. Carbonite Ultra can convert between SDR video and a variety of HDR formats such as HLG, PQ, and S-LOG3. Carbonite Ultra also supports bi-directional WCG conversion (Rec.709 <> Rec.2020). HDR and WCG technology is a great way to affordably improve the quality of image delivered to your audience and presents exciting opportunities for re-thinking traditional set lighting.

In UHD formats, Carbonite Ultra is the same flexible and easy-to-operate switcher you know and love!

12G/UHD PRODUCTION SWITCHER

Carbonite Ultra offers a 12G/UHD production switcher feature set that is unlike anything you've ever seen in a mid-size class production switcher:

- 2160p 23.98/24/25/29.97/30/50/59.94/60
- 18 x 12G inputs or 16 x 12G & 2 Quad-Link 2SI inputs
- 10 x 12G outputs
- Up to 2 MEs available via software license
- 2 UHD MiniMEs
- 4 UHD channels of DVE
- 2 UHD channels of MediaStore with Key+Fill
- 2 UHD chroma keyers
- Up to 2 MultiViewers (1080P) – 2nd MultiViewer available via software license

UHD Video Processing Resources

The standard Carbonite Ultra configuration provides:

- 2 Frame Sync/Format Converters – assignable to any input or output
- 2 Proc Amps / Colour Correctors – assignable to any input or output

The PLUS I/O license provides more video processing resources in UHD:

- 7 frame sync / format converter – assignable to any input
- 1 input format converter assignable to any input
- 4 Format Converters – assignable to any output
- 7 Proc Amps / Colour Correctors – assignable to any input or output

Part of the Ross Production Ecosystem



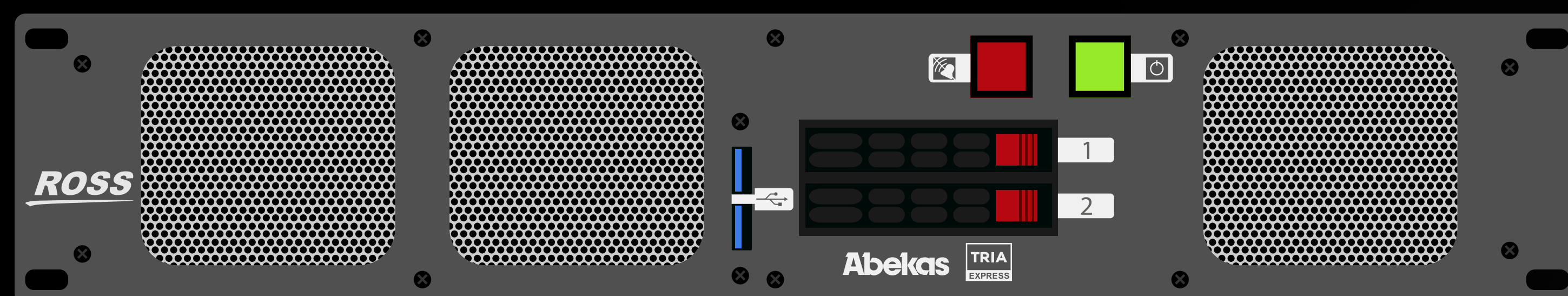
RAVE Audio Breakout Module

With the addition of up to 3 optional audio breakout panels, RAVE gains access to discrete Analog and Digital audio I/O with microphone pre-amps and phantom power.



XPression Motion Graphics

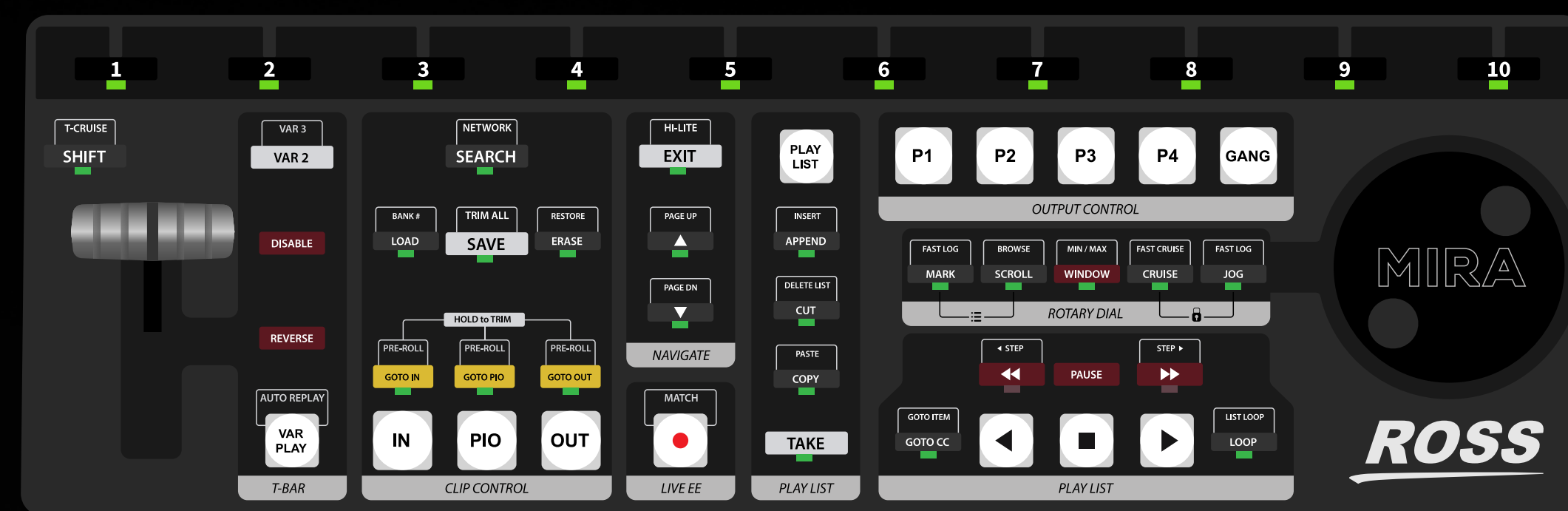
Take your production to the echelon of top Hollywood productions, pro-sports teams, and television networks – with XPression motion graphics. XPression and Carbonite Ultra are the most effective graphics/switcher combo you can work with in a live production, thanks to smart RossTalk protocols. XPression is available in a variety of configurations to suit any budget or application.



Tria Production Servers

Available in a wide array of channel-counts, storage capacities, and price points - Tria production servers meet the artistic demands of live program creation with clips, finished video segments and animated switcher transitions. Tight integration with Carbonite Ultra via AMP control protocol makes it easy to control Tria playout and ingest entirely from the switcher.

Part of the Ross Production Ecosystem



Mira Replay Systems

Producing instant replay of live-televised sporting events is always a fast-paced and demanding endeavor. The Mira Replay line makes it easy with operator-minded control, reliable hardware and streamlined file workflows.

RCP Ethernet Aux Panels

Simple and cost-effective remote control panels that are ideally-suited for XY or cut-bus control applications. The RCP-ME model includes 40 soft, fully programmable back-lit keys for convenient function key layout, while the RCP-QE series offers greater ease of use with programmable LED button labels - available in 18 or 36 button models.

Ultritouch Control Panel

Shallow 2RU or 4RU rack-mountable touchscreen that combines the customization power of DashBoard with smart-phone-like functionality. Make Carbonite Ultra part of a custom Ultritouch interface or monitor and control the switcher from an intuitive touchscreen system.

Configurations & Options

Carbonite Ultra makes insane mid-sized production horsepower more affordable than ever.

Build Your Carbonite Ultra

FEATURE	DESCRIPTION
CUF-124	Base unit, 1 ME, 4 MiniMEs, 8 2D DVEs, 8FSFC+ (Frame Syncs/Format Converters, Proc Amps/Colour Correctors)
CUF-ADD-ME2	Adds ME 2 option to the CUF-124 engine. Enables UHD ME1
CUF-ADD-ME3	Adds ME3 option to the CUF-124 engine. Enables UHD ME2
CUF-ADD-MV2&4	Adds MultiViewer 2 & MultiViewer 4 to the CUF-124 engine – each with 45 layouts to choose from, with up to 16 windows: • Includes 1 additional System MultiViewer (MV 2) with access to all physical I/O, internal sources and internal buses. • Includes 1 additional I/O MultiViewer (MV 4) with access to all physical inputs and physical outputs • Enables 2nd MultiViewer in UHD mode
CUF-ADD-I/OPLUS	Add FSFC+ to all inputs and outputs: • Standard system includes 8 assignable FSFC+. Option enables a total of 34*** when operating in HD/SD formats. • Increases processing resource in UHD mode: 7 input frame syncs, 8 input format converters, 4 output format
CUF-PSU	Standard Power Supply
CUF-RACKPWR	Ultrapower 1RU Redundant Rackmount Power Supply: • Can power multiple Carbonite Ultra and Ultrix Router frames simultaneously
CUF-HDBNC-BNC	HDBNC to BNC kit with 8 cables: • Kit includes 8 x 1-foot HDBNC to BNC cables • Ultra has 40 total HDBNC I/O • 5 kits required for conversion of all HDBNC I/O
CUF-RAVE-AUDIO	Adds Rave Audio engine with Sample Rate Conversion.
GRAPHITE-1RU-AUDBKM	RAVE 1RU Audio Breakout Module

*** RAVE Audio - Input Sample Rate Conversion reduces HD FSFC+ to 24 inputs and 2 outputs

Carbonite Ultra Frame / Operational Features

CARBONITE ULTRA FEATURE	DESCRIPTION
MULTI-DEFINITION INPUTS	24 SDI inputs (HDBNC)
MULTI-DEFINITION OUTPUTS	14 SDI outputs (HDBNC) 10 configurable, 4 MultiViewer only
MIX EFFECT BUSES (MEs)	Configurable with up to 3 MEs, each with 4 full function keyers + transition keyer for animated MediaWipes and DVE transitions. Ships with 1ME as standard and is configurable with MEs 2 and 3 via software license.
MINIME EFFECT BUSES	4 MiniMEs, each with 2 full function keyers, independent mixer and preview bus. All 4 MiniMEs are included as standard with every system.
CHROMA KEYERS	4 floating UltraChrome chroma keyers can be utilized by any keyer in the system
DVEs	8 floating DVEs can be utilized by any keyer in the system
USB MEDIA PLAYER	The USB media player allows for playout of ITU-T H.264 (MPEG-4 AVC) codec video clips when operating in SD/HD video formats. Video clips must be formatted into a 1280x720 resolution for use in the clip player, while the required clip frame rate is determined by the operating video format of the production switcher.
STILLS & ANIMATIONS	4 Channels of MediaStore with a total storage capacity of 8 GB. Each channel can render stills and animations with alpha. Supports animations with audio or audio-only playback. Files can be directly rendered to the MediaStores via Ethernet.
SUPPORTED MEDIA FILE TYPES	Stills: .BMP Stills & Animations: .JPG & .JPEG (no Alpha), TGA & PNG (with Alpha & 48K WAV audio files)
GRAPHICS SOFTWARE	Included XPression LiveCG software creates still graphics from a network-connected PC workstation and renders directly into MediaStores via IP.
PATTERN GENERATORS	2 per ME
EFFECTS & TRANSITIONS	Support for standard transitions along with Animated MediaWipes with audio and overlay effects on main MEs. Dissolve transitions are available to MiniMES.
MEMORIES	100 Memories per ME and MiniME per Show File. Multiple show files can be stored on the USB drive. Effects memory functionality allows for animated memory recalls, while MemoryAI ensure memory recalls will not adversely affect what is currently on-air.
CUSTOM CONTROL MACROS	Up to 256 Custom Controls can be created in DashBoard or from the Control Panel surface.
INPUT / OUTPUT PROCESSING	Equipped with 8 FSFC+ that can be assigned to any input or output. Each FSFC+ offers Frame Syncs for inputs - along with Color Correction, Proc Amps and Format Conversion for inputs and outputs. Optional FSFC+ on every input and output via software license.***
MONITORING	Offers up to 2 System MultiViewers and 2 dedicated I/O MultiViewers. Ships with 1 I/O MultiViewer & 1 System MultiViewer as standard, additional I/O and System MultiViewers via software license.
RAVE AUDIO ENGINE (OPTIONAL)	384 input channels (embedded SDI), Main 48 channel stereo mixer, 12 x 48 channel stereo AUX mixers,
RAVE AUDIO SRC (WITH RAVE OPTION)	Audio Sample Rate Conversion available on all Inputs***
RAVE AUDIO BREAKOUT EXTERNAL BREAKOUT UNIT (OPTIONAL)	8 Analog / Microphone Inputs, 5 Analog Outputs, 1 AES Input, 1 AES Output

*** RAVE Audio - Input Sample Rate Conversion reduces HD FSFC+ to 24 inputs and 2 outputs

CARBONITE ULTRA FEATURE Con't	DESCRIPTION
DEVICE CONTROL	Includes device control for Video Servers, XPression Graphics, Robotics, PBus, GPO, Trackless Virtual Sets and PTZ Cameras.
IP, SERIAL AND PARALLEL TALLY	24 Contact Closure Tallies
GPI/O	24 GPI/O connections
AES DIGITAL AUDIO	2 AES digital audio outputs
TIME CODE INPUT	For use with MultiViewer System Clock and Live EDL Feature
ETHERNET PORTS	1 Ethernet port
REFERENCE INPUT & OUTPUT	Black or Tri-Level – Output is configurable for H/V Offset from Input Reference or internally generated
EDITOR / SERIAL TALLY PORT	1 (RS-422)
EDIT DECISION LISTS	LiveEDL can capture EDL data in a file that you load into your non-linear editing (NLE) suites

12G/UHD Features

12G / UHD FEATURES	DESCRIPTION
12G SDI INPUTS	18 x 12G Inputs or 16 x 12G & 2 Quad-Link 2SI Inputs
12G SDI OUTPUTS	12 x 12G Outputs (10 configurable, 2 MultiVlewer only)
MIX EFFECT BUSES (MEs)**	1 or 2 UHD MEs, each with 4 full function keyers + transition keyer for MediaWipes and DVE transitions
MINIMES	2 UHD MiniMEs, each with 2 full function keyers, independent mixer and preview bus.
CHROMA KEYERS	2 floating UltraChrome chroma keyer can be utilized by any keyer in the system
DVES	4 floating DVEs can be utilized by any keyer in the system
STILLS & ANIMATIONS	2 Channels of MediaStore with Key+Fill
MONITORING	Up to 2 MultiViewers (1080P) – 2nd MultiViewer available via software license.
INPUT / OUTPUT PROCESSING	Standard UHD Video Processing: · 2 Frame Sync / Format Converters – assignable to any input or output · 2 Proc Amp / Colour Correctors – assignable to any input or output PLUS I/O Video Processing: · 7 Frame Sync / Format Converters – assignable to any input · 1 Input Format Converter · 4 Format Converters – assignable to any output · 7 Proc Amps / Colour Correctors – assignable to any input or output

*12G/UHD Operation Mode requires the standard ADD-ME2 license
**UHD ME1 requires standard ADD-ME2 license / UHD ME2 requires standard ADD-ME3 license



Signal Processing Standards

FORMAT	LINE/ FRAME RATES
STANDARD DEFINITION	480i/59.94 – 4:3 and 16:9 576i/50 – 4:3 and 16:9
HIGH DEFINITION	720p & 1080i 50/59.94 1080pSF 23.98/24/25/29.97/30
3G 1080P	1080p 23.98/24/25/29.97/30/50/59.94/60
12G UHD	2160p 23.98/24/25/29.97/30/50/59.94/60 (Available with ADD-2ME license)

Control Interfaces

CONTROL INTERFACES	
TouchDrive™ Control Panels	√
DashBoard LiveAssist	√
ViewControl Touchscreen Interface	√

TouchDrive™ Control Panels

KEY FEATURES	SOLO CB9	CB1	CB1S	CB2	CB2S	CB3S	CB3X
DIRECT ACCESS CROSSPOINT BUTTONS	9	16	24	16	24	24	32
NUMBER OF ME ROWS	1	1	1	2	2	3	3
ME EFFECTS MEMORY KEYPAD	No – Global only	No – Global only	1 per ME + Global	No – Global only	1 per ME + Global	1 per ME + Global	1 per ME + Global
THEME-ABLE PANEL GLOW RGB BUTTONS	√	√	√	√	√	√	√
8 CHARACTER INPUT AND KEY SOURCE COLOR MNEMONICS	X	√	√	√	√	√	√
CUSTOM CONTROL MACRO BUTTONS WITH SPLIT ROW MNEMONICS	72 (No Mnemonics)	128	192	128	192	192	256

Power Supplies

UNIT	DESCRIPTION
Standard Power Supplies	Standard brick-style power supplies, with support for dual-unit redundant power.
Ultripower Rackmount Power Supply	Ultripower is a 1RU rackmount power supply that can simultaneously power multiple Ultrix routers and Carbonite Ultra chasses. In environments where equipment ruggedness, security, and maximum space saving is critical, Ultripower is a great fit. Perfect for flypacks, OB production, or equipment rooms where rack space is at a premium.

CARBONITEUltra

Ross Video has a complete range of technical services available to ensure that your Carbonite Ultra installation is a success.

Operational Training can be provided at Ross Video, on-site or on the web. Experienced Ross operators will teach your staff to get the most out of your new system, and enhance your productions.

Commissioning is a service to help get your switcher properly configured, connected and installed. This service is performed by factory trained Ross technical staff.

Technical Training can be provided at Ross Video, on-site or over the web. Technical training will teach your engineering staff the technical details of the system you have purchased. System configuration, interfaces, databases, and routine maintenance procedures are some of the topics covered.

Carbonite Ultra comes standard with a 1 year comprehensive warranty.

Extended Warranties on hardware and software maintenance are available for an annual fee. Technical advice is available on-line, by telephone, or email to Ross Video – Included for the life of your system.

Contact Us

Global: +800 1005 0100

North America: 1-844-652-0645

Email: solutions@rossvideo.com

Technical Support

Emergency: +1 613 349-0006



Ross Video

Solutions

Broadcast & Production
Augmented Reality & Virtual Sets
Sport & Live Events
Legislative
Mobile Production
House of Worship
Education
Corporate

Products

Production Switchers
Motion Graphics & Clip Servers
Replay & Production Servers
Robotic & Camera Systems
Control Systems
Routing Infrastructure
Signal Processing Infrastructure
News, Live & Social Production Management
Asset Management & Storage

Services

Creative Services
Mobile Production

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