THE SUPER COMPACT SWITCHER
Carbonite Black Solo is a powerful 1ME switcher that is packed full of the features that Carbonite owners love to use every day. Compact and affordable, this switcher is built with a professional-class feature set to ensure a captivating and easy-to-execute show.

Unlike other small production switchers, Carbonite Black Solo offers:

MiniME Resources for Event Production or Secondary Outputs:
Carbonite Black Solo comes equipped with 2 MiniMEs, each of which has two keyers of its own. Freely assignable throughout the channel stream, MiniMEs are great for multi-layer effects, unique outputs or multi-screen processors for a live event.

One Button Playout of Complex Scenes With Robust Macros and Memories
Complex scenes and ultra-fluid transition effects require a smart macro and memory system, but many small switchers lack this functionality. Carbonite Black Solo provides finely-tuned custom control macros, plus a large memory system with smart key/background preparation and smooth effect recall functionality.

Built-in Monitoring and Video Processing to Eliminate Additional Purchases
What good is a portable production switcher, if you need a pile of external equipment to get the connections right? Carbonite Black Solo lets you quickly plug-in to any facility with built-in frame syncs, format converters, and a 10-window MultiViewer.

AT-A-GLANCE
Whether looking to equip a production studio, flight pack, or add a back-up switcher - Solo is designed to empower your operators and simplify the production workflow:

• Spectacular ME resources for production flexibility
• Includes great-looking graphics software
• Eliminates monitoring and video processing costs
• Increases productivity with smart show tools and widespread connectivity

The perfect fit for a small production solution:

GRAPHICS SOFTWARE INCLUDED:
Carbonite Black Solo ships with XPression LiveCG software, for great-looking still graphics that are rendered directly into the switcher MediaStores via Ethernet connection.

SIMPLE DASHBOARD INTERFACE:
DashBoard makes it possible to create a purpose-built user interface for a specific production environment. With ViewControl, the full frame rate Solo MultiViewer can be converted into an intuitive touch screen control panel.

VAST DEVICE CONTROL SUPPORT:
Easily add PTZ cameras (including Ross PIVOTCams!), graphics, video servers, audio mixers, and robotic cameras into your productions. Carbonite Black Solo comes equipped with RossTalk and third-party control protocols.
# Features

**Mix Effect Buses (ME)**
- 1 ME with 4 full function keyers plus transition keyer

**MiniME Effect Buses**
- 2 MiniMEs with two keyers each

**Chroma Key**
- 1 UltraChrome chroma keyer

**DVES**
- 2 (2D) floating DVES can be utilized in any keyer in the system

**Stills & Animations**
- 4 Channels of MediaStore with a total storage capacity of 8GB. Each channel can render stills/animations or two channels can be paired together for animations with alpha. Supports animations with audio or audio-only playback. Each channel can be converted for use as a frame synchronizer.

**Graphics Software**
- Included XPression LiveCG software creates still graphics from network connected-PC workstation and renders directly into MediaStores via Ethernet

**Supported Media File Types**
- Stills: .BMP
- Stills & Animations: .JPG, .JPEG (no Alpha), TGA & PNG (with Alpha & 48K WAV audio files)

**Pattern Generators**
- 2 Pattern Generators

**Effects & Transitions**
- Support for standard transitions along with Animated MediaWipes with audio and overlay effects on main ME. 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 ensures memory recalls will not affect what is currently on-air.

**Custom Control Macros**
- 72 Custom Control Macros are available for use directly from the control panel, while up to 256 Custom Controls can be created in DashBoard

**Internal Frame Synchronizers & Format Converters**
- 6 freely-assignable Frame Syncs & Format Converters. If the switcher is operating in 1080p 59.94, you can only use a maximum of 7 frame synchronizers to sync 1080p 59.94 video inputs. This can be up to 3 FSFCs and 4 MSFSs or 6 FSFCs and 1 MSFS. Format conversion is not restricted.

**Monitoring**
- 1 MultiViewer with tally, source names, and clock. Configurable with up to 10 windows.

**Control Interfaces**
- Control from any Carbonite Panel - up to 3 physical panels! DashBoard VirtualPanel and additional DashBoard Custom Panels.

**Device Control**
- Includes device control for Servers, XPression Graphics, Robotics, Audio Mixers, PBus, GPO, Trackless Virtual Sets and PTZ Cameras

**IP, Serial and Parallel Tally**
- 16 Tallies

**GPIO**
- 24 GPIO Connections

**AES Digital Audio**
- 1 AES Digital Audio Output

**Time Code Input**
- Via Optional Gear Lite LTC to RS422 Converter (TSC-9802)

**Ethernet Ports**
- 1 Ethernet Port

**Reference Input**
- Black or Tri-Level

**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

**System Physical**
- 1RU Rack Frame, with support for redundant power supplies.

## Models

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<thead>
<tr>
<th></th>
<th>SOLO</th>
<th>SOLO13</th>
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<tr>
<td><strong>Inputs</strong></td>
<td>6 X 3G HD-SDI</td>
<td>12 X 3G HD-SDI</td>
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<tr>
<td></td>
<td>3 X HDMI</td>
<td>1 X HDMI</td>
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<tr>
<td><strong>Outputs</strong></td>
<td>5 X 3G HD-SDI</td>
<td>5 X 3G HD-SDI</td>
</tr>
<tr>
<td></td>
<td>1 X HDMI</td>
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## Signal Processing Standards

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<td>576i/50 - 4:3 and 16:9</td>
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<td>1080p 50/59.94</td>
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<td>3G 1080P</td>
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**Three Configurations:**
- **All-in-One Production Switcher**
  - Combined Electronics & Control Panel
- **Carbonite Black Solo Frame**
  - 1RU Production Switcher with VirtualPanel
- **Carbonite Black Panels**
  - Hardware Control Panels with 1RU Frame

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www.rossvideo.com/carbonite-black-solo