

CARBONITE MOSAIC



VIDEO-IMAGE PROCESSOR

Carbonite Mosaic is a dynamic compositing tool built on the Carbonite Black Plus engine, that can output a canvas size of over 20 million pixels. Carbonite Mosaic provides the high resolution and layering capability you need to create epic large-screen imagery in any entertainment or sports venue. With single frame latency, this processor delivers high-quality scaled video that complements the live action.

Carbonite Mosaic offers a fully-loaded video-image processing feature set, at one of the best price points in the industry:

- 20,000,000+ maximum canvas size
- Up to 10 independent canvases
- 36 inputs & 25 outputs
- Input and output processing
- Internal media playback
- 4 built-in MultiViewers for monitoring
- HDR HLG Ready

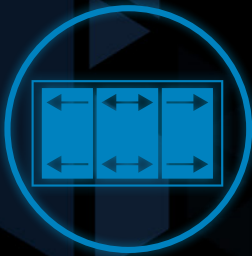
CARBONITE MOSAIC + XPRESSION TESSERA

Carbonite Mosaic handles the live video processing and scaling, while the XPression Tessera system handles pixel-accurate real-time rendered graphic content on your display. The combination of Carbonite Mosaic and XPression Tessera come together for beautifully composited video and graphics on the big screen.

Unbeatable Controllability

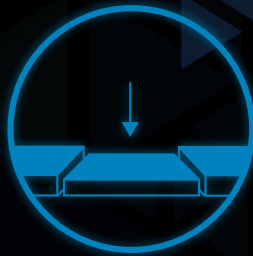
Because Carbonite Mosaic is built from the Carbonite engine, it retains many of the simple Carbonite operational features for setting up and running a show:

- Recall layouts from a Carbonite or Acuity switcher with the RossTalk protocol
- Recall directly from the Mosaic system
- Use single or multiple DashBoard operator interfaces from various locations.



EPIC LARGE-SCREEN IMAGERY

Manage up to 10 independently-controlled canvas outputs, with programmed recall and dynamic animated effects. Mosaic provides the resources and operational features needed to get creative with your large display. Create a massive single display or multiple independent display outputs - the choice is yours.



FLEXIBLE CANVAS CONTROL

Enjoy the ease of pre-defined layouts or the freedom to create your own. Layout recalls can be initiated from multiple points of control throughout your production workflow.



AN INTEGRATED SHOW

Carbonite Mosaic is part of the integrated Ross ecosystem for incredible visuals and simple control. Enjoy synchronous playback from Ross Video servers, recall graphics from Ross XPression & Tessera 3D graphic engines, and add virtual/augmented graphic elements from Ross Frontier virtual engines.



BUDGET REDEFINED

Unlike other systems in its class, Carbonite Mosaic is a complete ten canvas video-image processor offered at an incredibly affordable price point. That's the beauty of a software-defined system, built on a reliable hardware platform.

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INPUTS AND OUTPUTS

SDI INPUTS	36 inputs (3G HD-SDI)
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INPUT PROCESSING	Video proc amps, color correction and format conversion are available on each of the 36 inputs.
OUTPUT PROCESSING	Video proc amps, color correction and format conversion are available on 12 of the 22 outputs.
GPIO	34
ETHERNET PORTS	2
REFERENCE INPUT	Black or Tri-Level
INTERNAL REFERENCE GENERATOR	Yes
INDEPENDENTLY CONFIGURABLE REFERENCE OUTPUTS	2

OPERATIONAL FEATURES

COMPOSITING / CANVAS OUTPUTS	<ul style="list-style-type: none"> • 10 canvas outputs, with 5 layers each (1 background and 4 key layers) • 10 Program and Preview outputs with "Next Transition" preview of backgrounds and keys,
SCALING	18 sub-sampling scaling engines
MEDIA PLAYBACK	Each of the 18 scalers can be utilized as MediaStore channels for still or animated playback.
MEMORIES	100 Memories with Effect Dissolve and Ross-exclusive MemoryAI functionality
CUSTOM CONTROL MACROS	Up to 256 Custom Control Macros, with the ability to run 10 simultaneously.
PRESET CANVAS LAYOUTS	<ul style="list-style-type: none"> • Multiple customizable preset layout choices • Individual tile positioning adjustment • Background scaling • Foreground boxes (PIP)
CUSTOM CANVAS LAYOUTS	<ul style="list-style-type: none"> • Create custom tile layouts • Save and recall layouts instantly • Create dynamic animated boxes (PIPs) with programmed recall
MONITORING	<ul style="list-style-type: none"> • 3 x 16 window I/O MultiViewers (12 inputs and 4 outputs per MultiViewer) • 1 x 10 window layout MultiViewer

SIGNAL PROCESSING STANDARDS

STANDARD DEFINITION	480i/59.94, 576i/50
HIGH DEFINITION	720P & 1080i 50/59.94
1080 PSF	23.98, 25 & 29.97
1080P	29.97 (1.5Gb) & 50 / 59.94 (3Gb)

CONTROL INTERFACES

ROSS SWITCHER	Mosaic layouts can be recalled directly from a Carbonite or Acuity switcher with the RossTalk protocol.
DASHBOARD	Layouts, memories, and custom controls can be created via network-connected DashBoard software.