

Ultrix

MultiViewers



High Quality
Integrated MultiViewer



Ultrix MultiViewers

Quality. Flexibility. Scalability. Performance.

Ultrix is Ross Video's groundbreaking, high performance routing platform.

Ultriscape, is an integrated MultiViewer within the Ultrix platform. It is the worlds first software enabled MultiViewer that is housed inside a routing platform, and is the first MultiViewer that can support single link 12Gb/s signals, and can support a completely integrated mix of IP and Baseband inputs as well as Multiviewer outputs.

Ultriscape is high quality, low latency, flexible, and easy to configure and deploy.



High Performance MultiViewers

Ultrascap is the world's first MultiViewer integrated into a routing platform that is enabled simply via a software license. As part of the Ultrix routing platform, it is incredibly compact. A 1RU chassis can have up to 36 inputs and 6 MultiViewer outputs, a 2RU chassis can have up to 72 inputs and 12 MultiViewer outputs, and a 5RU chassis can have up to 160 inputs and 27 Multiviewer outputs..

Each MultiViewer output is completely independent, and has access to every input in the frame with no restrictions. This makes Ultrascap the most flexible MultiViewer available in the industry today. Each output is selectable between 1080i and 1080p resolutions, and Ultrascap outputs can be assigned to a mixture of SDI, Fiber, HDMI, and IP outputs to provide users different choices to match the needs of their displays.

Ultrascap has the ability to monitor up to 16 embedded audio signals per SDI source via configurable audio meters. In addition, up to 1024 discrete audio channels can also be monitored via MADI inputs making Ultrascap the ideal solution for integrated applications and workflows.

FEATURES

- Fast (<1 frame latency)
- Up to 100 PIPs per head
- Video input support for signals from 270Mb/s up to single link 12Gb/s
- Flexible layout configurations to meet a wide range of applications
- Multiple output formats that are configurable by the user
- 2 System scalers from an array of choices plus a single use 3rd scaler per layout
- Integrated audio metering
- Multiple tally indicators including borders, lamps, and label UMDs
- Tally support TSL 3.1, and 5.0 native
- Simple control and configuration
- Configure / update a single or multiple MultiViewers across many frames quickly using DashBoard
- Tight integration with router database
- Access to all router inputs
- Ability to create custom layouts
- Recall layouts from router hardware and software panels, and via 3rd party automation systems.
- Multiple modes of operation including direct PIP control and destination follow
- Industry leading image quality with award winning Ross scaling technology
- Support for clocks with Time Zone offset, Timers, and Stopwatches



Easy & Flexible Layout Configuration

LAYOUT CONFIGURATION

Ultrascpe includes an editor that allows you to build completely customizable layouts. Picture-in-Picture elements (PiPs) can be identical, or can be customized individually to give users complete flexibility when designing layouts.

1 | PIP TOOL BAR

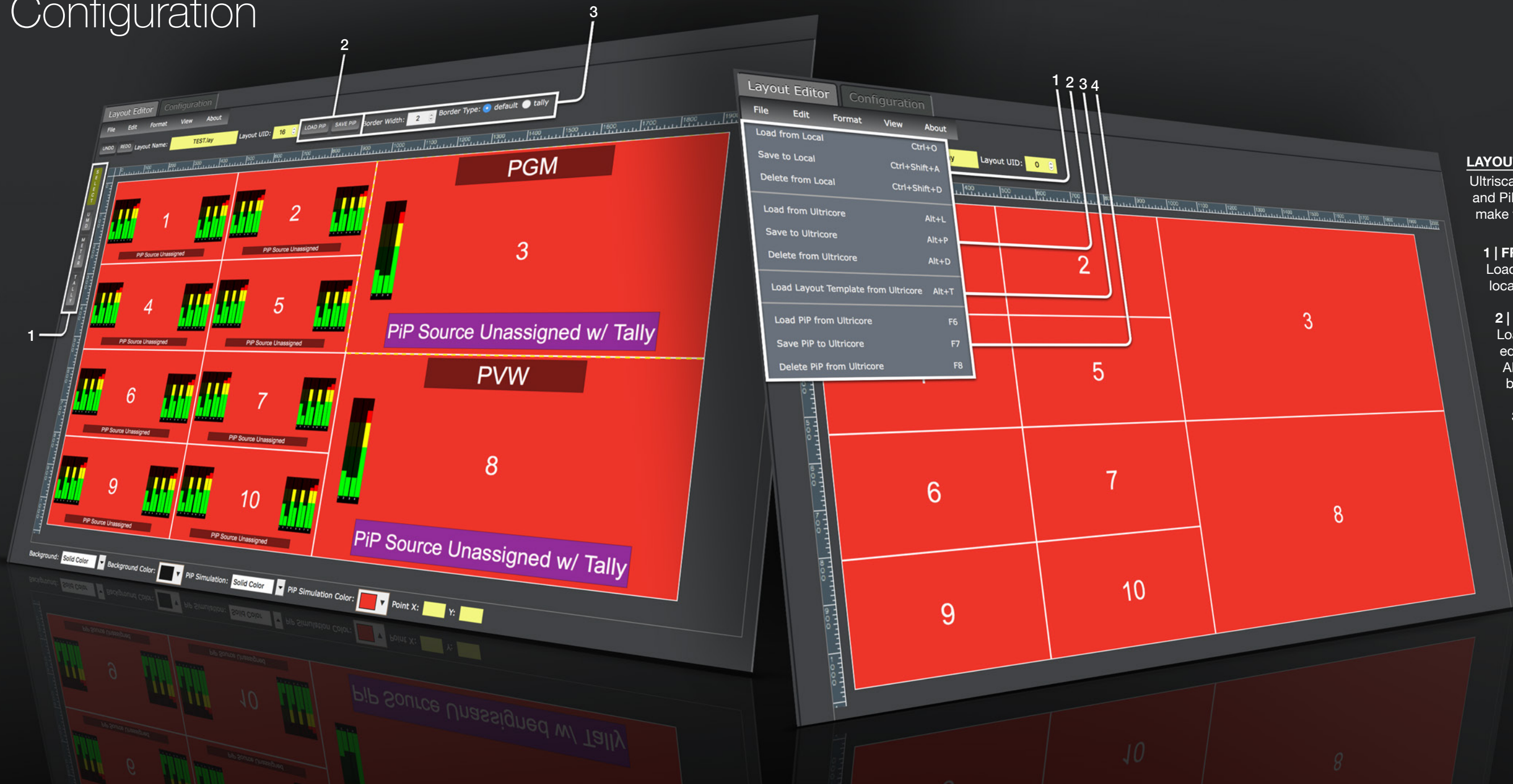
These tools provide the ability to create custom layouts. In addition, users can add Audio Meters, UMD/Labels (2 per PiP), and Tally Lamps. The PiP tool bar also allows users to position and resize elements.

2 | PIP TEMPLATE CONTROLS

The Ultrascpe Layout Editor permits users to create PiP templates. This provides the capability to create PiP styles, and then easily recall them to any template in the system.

3 | BORDERS

Ultrascpe Layout Editor lets you build custom borders, or none at all if that is what is preferred. Borders can be adjusted to be the same across the entire layout, or can be adjusted individually per PiP. In addition, borders can be enabled to support tally indications using TSL protocol.



LAYOUT AND PiP MANAGEMENT

Ultrascpe provides the tools to manage an array of layouts and PiP styles. It is easy to select a layout, modify PiPs and make the new layout available to the system.

1 | FROM A LOCAL COMPUTER

Load, save and delete layout files from a local computer.

2 | FROM AN ULTRICORE SYSTEM

Load, save and delete layouts that have been created and saved directly to the Ultriscpe control system. Allows users to quickly retrieve and modify previously built layouts.

3 | LAYOUT TEMPLATE LIBRARY

Ultriscpe comes equipped with a variety of commonly used Ultriscpe layouts that can be quickly recalled from Ultriscpe. This is great for quick deployment or as a starting point for your own unique MultiViewer layout.

4 | LOAD, SAVE AND DELETE CUSTOM PiPs

Ultriscpe allows the creation of custom PiP styles, which can be saved and then easily recalled to any template in the system.

Enhanced Layout, PiP Configuration & Activation

LAYOUT SELECTION AND PiP BEHAVIOR

Ultriscap makes it easy to select and activate layouts, as well as modify PiP behaviors on individual MultiViewer heads (outputs).

1 | HEAD SELECTION

All available MultiViewer heads show up in a series of tabs. To choose a head to modify, simply click on the appropriate tab.

2 | ACTIVATE LAYOUT

This area shows all available layouts that are currently saved on the Ultriscap control system. Choose a layout and click on the Apply button at the lower right of the screen, and the layout will be loaded onto that MultiViewer head.

3 | PiP BEHAVIOR

Users can choose from four behaviors selectable per PiP. They are:

Normal

PiPs act like router destinations, so they are switchable via SW or HW panels, and automation systems.

Source Coded

A PiP is manually given a source to display as part of the layout.

Follow Mode

PiPs are assigned to follow specific destinations. Whenever a source is switched to a specific destination, it will also be switched to that specific PiP.

Shared PiPs

Users can create a series of shared PiPs. These PiPs can be assigned to any layout on any screen. When a source is switched to a shared PiP, it is updated on all screens that have that shared PiP active on a layout.

4 | AUDIO METER SETTINGS

Ultriscap offers two separate modes of audio metering operation.

Physical

Audio meters display the channels natively embedded in that source.

Logical

Audio meters display the channels that have been logically assigned with the video source in the Ultriscap configuration database.



Non-Blocking Outputs

The sophisticated internal architecture of Ultrix makes Ultriscape MultiViewers non-blocking. This means that every MultiViewer has access to every source in the chassis at all times. Each MultiViewer can display up to a mind blowing 100 PIPs simultaneously. You can display a single source on every PIP of every MultiViewer, display every source on every MultiViewer simultaneously, or any combination in between. Unlike other MultiViewer systems that force you to compromise, Ultriscape is completely flexible to meet the needs of every application.



**UP TO 27
MULTIVIEWER
HEADS**



Just Need a
Quad Split?

We have that too...

openGear



QSP-8229 openGear Card

QSP-8229A | Modular Quad Split

In addition to Ultriscape, Ross offers the QSP-8229A Quad Split. This is a modular card that is compliant with the Emmy award winning openGear signal processing platform. Up to 5 Quad Split cards can fit into a single 2RU chassis.

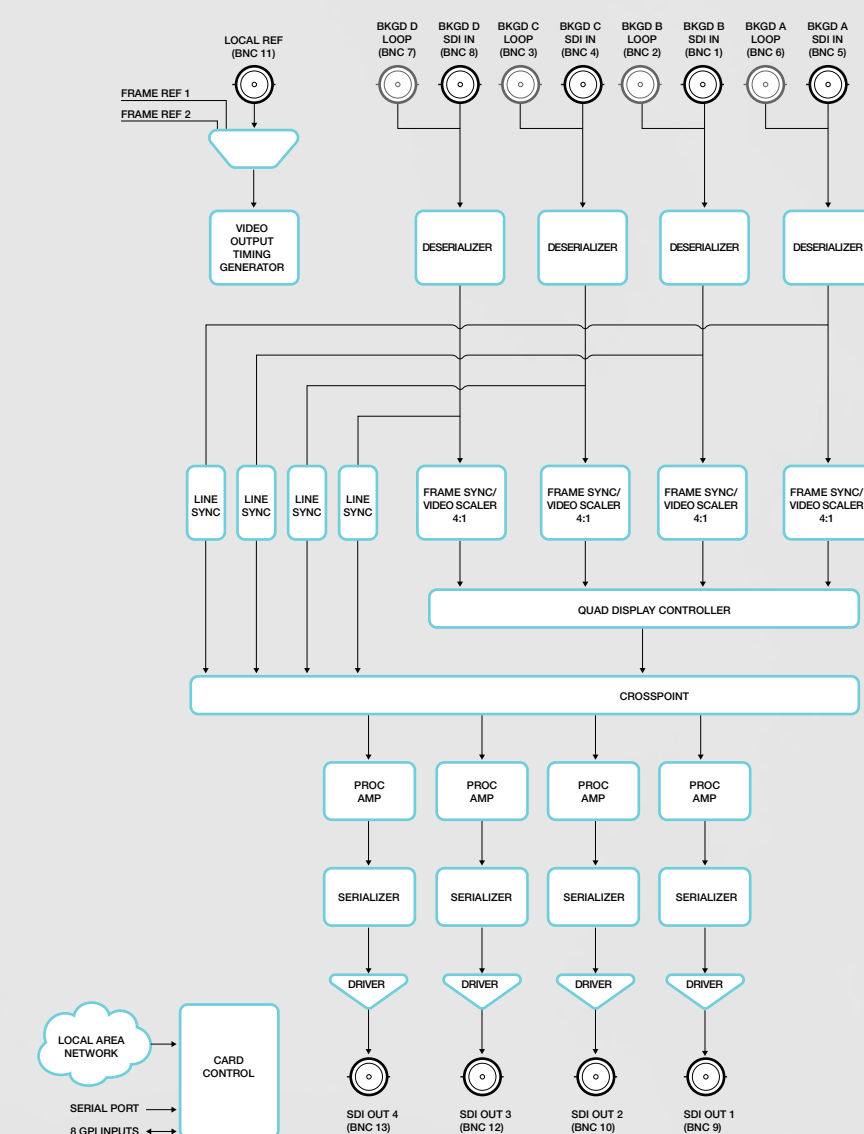
The four video inputs are combined into a single quad split output with configurable UMD and bordering capability. In addition to the four inputs, the QSP-8229A offers 4 independent outputs that can be configured to display either the combined quad output or pass-through of the input, with full proc control, offering additional outputs for use elsewhere.

Unique to the quad processor is passive looping inputs permitting the card to fit into any video path without the need for additional DAs. Looping is performed on the back module ensuring the signal path is not lost even when the processor is removed.

DashBoard control permits each quadrant to optionally display a static source ID and / or borders with fully adjustable color and transparency. Each output can be triggered to display the quad split or full screen with local GPI control or remote DashBoard control.

FEATURES

- Quad image processor
- 4 passive looping inputs available with the -R2L looping rear module
- 4 configurable outputs, pass-through / quad split
- Source ID labeling
- Quadrant bordering with adjustable width, color and transparency
- Any quadrant can be taken full screen
- <1 frame of processing delay
- Independent proc amp control on each output
- Auto-detection of HD / SD input
- Local GPI control
- 5-year transferable warranty
- Power: 18.4 watts



Only 4 analog inputs are available
• when using the -R2L split rear module.

ROSS VIDEO

Production Technology and Services

MOTION GRAPHICS

XPRESSION | Single, Triple, UHD Flex, Prime, Go!, Designer, Developer
XPRESSION CLIPS
XPRESSION TESSERA
XPRESSION MAPS
XPRESSION TELESTRATE
XPRESSION TOUCH FACTORY
XPRESSION BRAND IT
PIERO | Sports Analysis Graphics



CREATIVE SERVICES

ROCKET SURGERY | Graphics Creation



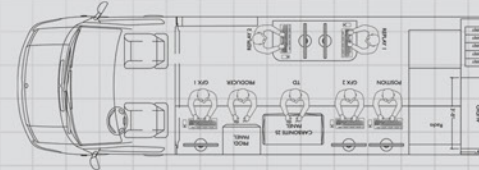
STUDIO IN A BOX

GRAPHITE | All-in-One Live Production Vehicle



OPENTRUCK

OPENTRUCK | Flight Case through 40-foot Truck



PRODUCTION SERVICES

ROSS MOBILE PRODUCTIONS



ASSET MANAGEMENT & STORAGE

STREAMLINE | Standard, Enterprise, Graphics
STREAMLINE.CLOUD
STREAMLINE NEWS VIDEO SUITE | MAM, Storage & Playback for News
EVO | Networked Storage



CAMERAS

ACID CAMERA | H200-UCHR, Z50-UCHR
PIVOTCAM | PivotCam SE



MULTI-SCREEN IMAGE PROCESSING

CARBONITE MOSAIC



CHROMA KEYING

ULTRACHROME HR



* Carbonite Black Chassis with UltraChrome HR Software

NEWS & SOCIAL MEDIA

INCEPTION NEWS | Academic, Express, Standard, Enterprise
INCEPTION LIVE
INCEPTION SOCIAL
INCEPTION.CLOUD
HORIZON



CONTROL SYSTEMS

OVERDRIVE | Express, Prime, Premium
DASHBOARD | Facility Control
LIGHTNING | Assembly Control
ULTRITOUCH | Touch Screen Control
POWERPLAY | Event Control System



PRODUCTION SWITCHERS

ACUITY | Panel: A1s, A2m, A2x, A3m, A3, A4 Frame: 4RU, 8RU
CARBONITE BLACK | Panel: C1, C1s, C2, C2s, C3s, C3x Frame: 2RU
CARBONITE BLACK PLUS
CARBONITE BLACK PLUS 12G
CARBONITE BLACK SOLO
CARBONITE BLACK SOLO 13
CARBONITE ULTRA
ACUITY & CARBONITE IP SOLUTION



INFRASTRUCTURE

SIGNAL PROCESSING

OPENGear | Modular Signal Processing, OGX Frame
MASTER CONTROL | MC1 openGear Card, MC1 Panel
NIELSEN | Watermarks Encoder
GATOR | 12G UHD Signal Processor
RAPTOR EDGE | IP Gateway & Processor
GEARLITE | Point of Use Signal Processing

NEWT | IP Point of Use Gateway
MASTER SYNC & REFERENCE | SRG-2200, SRG-4400, ACO-4400
AUDIO MONITORING | MB 651, MB-652



CONNECTIVITY

ULTRIX 12G & IP ROUTER | 16x - 144x
NK ROUTER | 16x4 - 144x144
ULTRITOUCH | Touch Screen Control
ULTRICORE BCS | Advanced Connectivity System Controller

ULTRICORE IP | IP Controller License for Ultricore BCS
PRO-XI | Workstation Integrator



IP TECHNOLOGY

OEM PRODUCTS | Market Ready Modules & System-on-Chip
IGGY | Bidirectional AES67 & ST2110 to MADI converter
BACH | ST2110 AES67 Audio Networking Module



VIDEO SERVERS, REPLAY & DELAY

MIRA+ | Enhanced Replay System
TRIA+ | Enhanced Production Server
TRIA NEWS | News Clip Server
AIRCLEANER | Live Events Delay

MIRA EXPRESS | Replay System
TRIA EXPRESS | Video Clip Server – new 1080P version



ROBOTICS

FURIO SKYDOLLY | Ceiling-Mounted Furio Dolly
FURIO LIVE | Live Head, SE Dolly and SE Lift; PanBar and Joystick Controls
FURIO STUDIO | VR100, VR600 Heads; SE & S2 Lifts; SE BlackBird
CAMBOT | 520PT, 600PT, 700PT Heads; 600 BlackBird; 600XY & 700XY Free-Roaming Peds
VR0 | Manual Fluid Head with Tracking
SMARTSHELL | Robotic Camera Control System



VIRTUAL & AUGMENTED REALITY

TRACKLESS VIRTUAL
UX5 | Control System & Workflow
VOYAGER | EPIC Unreal Engine 4
ARVS Renderer



Ross Video has a complete range of technical services available to ensure that your Ultrocre 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 routing system 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.

Ultrocre 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

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Technical Support

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www.rossvideo.com

ROSS VIDEO LIVING LIVE!

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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