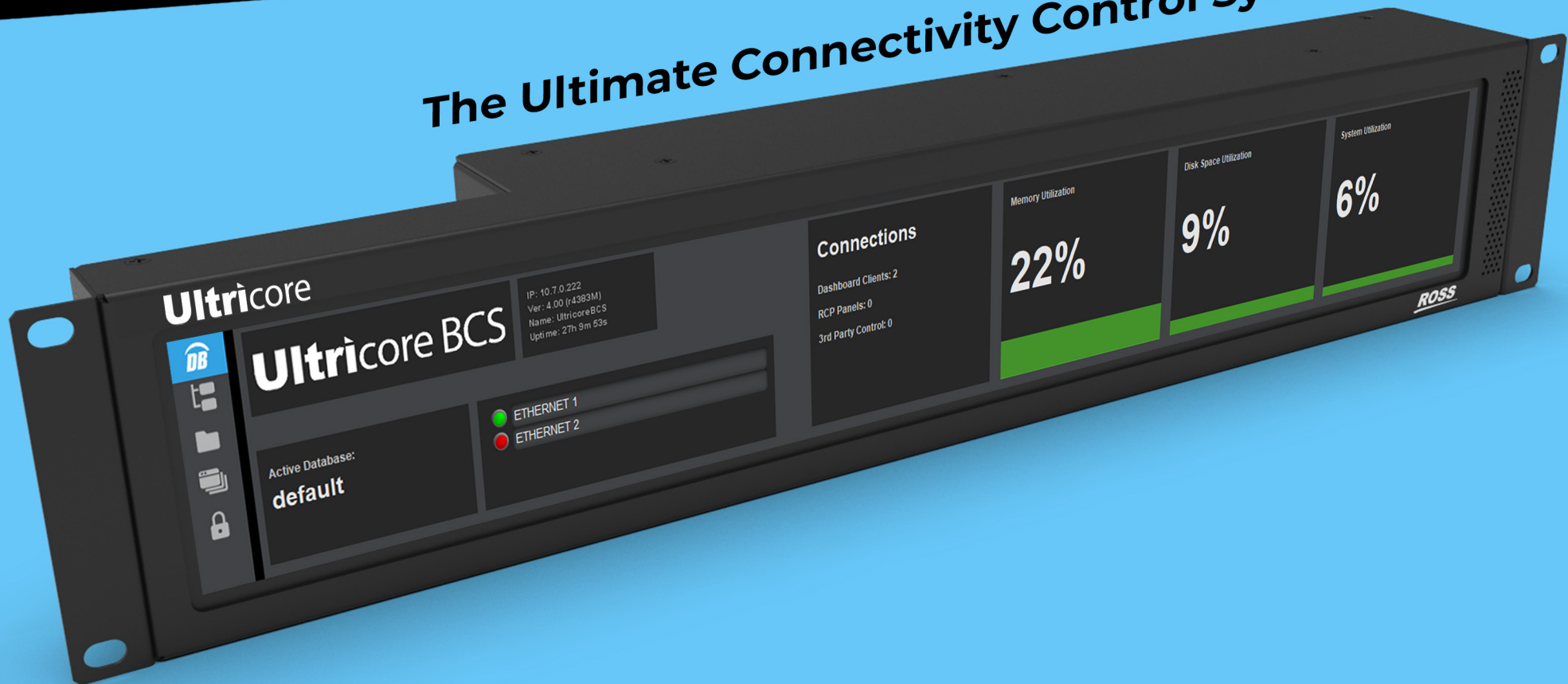


Ultracore

The Ultimate Connectivity Control System



ROSS



Ultracore

FULL FEATURED CONTROL SYSTEM

Great hardware is only as good as the control system running it. Ultracore is a fully featured connectivity control system that goes beyond traditional routing configuration and control. It is designed to handle all the usual router requirements as well as harnesses the power of Ultrix, a new breed of modern connectivity platform which is much more than just routing and includes major features like audio and video processing, Multiviewers, IP processing, routing and more. Ultracore makes it quick and easy to configure a system and gives your staff an intuitive and powerful set of controls to make operations run smoothly.

The Primary Benefits of Ultracore are:

Significant Reduction in
Setup Time

Simple Configuration

Enhanced User Experience

Seamless IP Usability

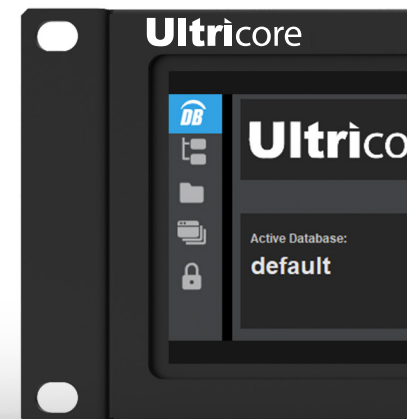


SCALABLE CONTROL

Different systems require various levels of complexity and connectivity, which is why you have two options with Ultracore. All Ultrix router frames ship standard with the complete version of the Ultracore control system within the frame. The physical interfaces to the frame include redundant Ethernet ports, and a USB port that can support Serial communication with the addition of a USB to serial adaptor. System configuration and discovery, database editor, salvo editor, and customizable software panels are all included. This integrated version is great for small systems, as it does not require the use of a central controller. For larger or more sophisticated systems, the Ultracore BCS 2RU central controller is available to provide for greater client (router frames, control panels, DashBoard and 3rd party connections) integration as well as enhanced control and connectivity capabilities. Ultracore BCS allows you to scale your control topology based on your system growth. In addition, it provides a powerful platform for adding sophisticated software licenses for things like integrated IP discovery and control, tielines and more. The The 2RU Ultracore BCS physical interfaces include (2) redundant Ethernet ports, USB ports and an integrated touchscreen for control and monitoring.

STANDARD INTERCONNECTIVITY

To ensure interoperability and easy interfacing to other devices within the facility, Ultrix uses industry standard protocols (GV Native, Probel SW-P-08, TSL Tallyman for MultiViewers) and NV9000 through an optional license. Ultracore can interface with existing Ross NK series routers via to be backward compatible. The Ultracore user interface is a Ross DashBoard application, making it familiar and consistent and delivering a smooth user experience. To state it simply, Ultracore has been designed to maximize efficiency. So dive in, and catch the power of this next generation control system.

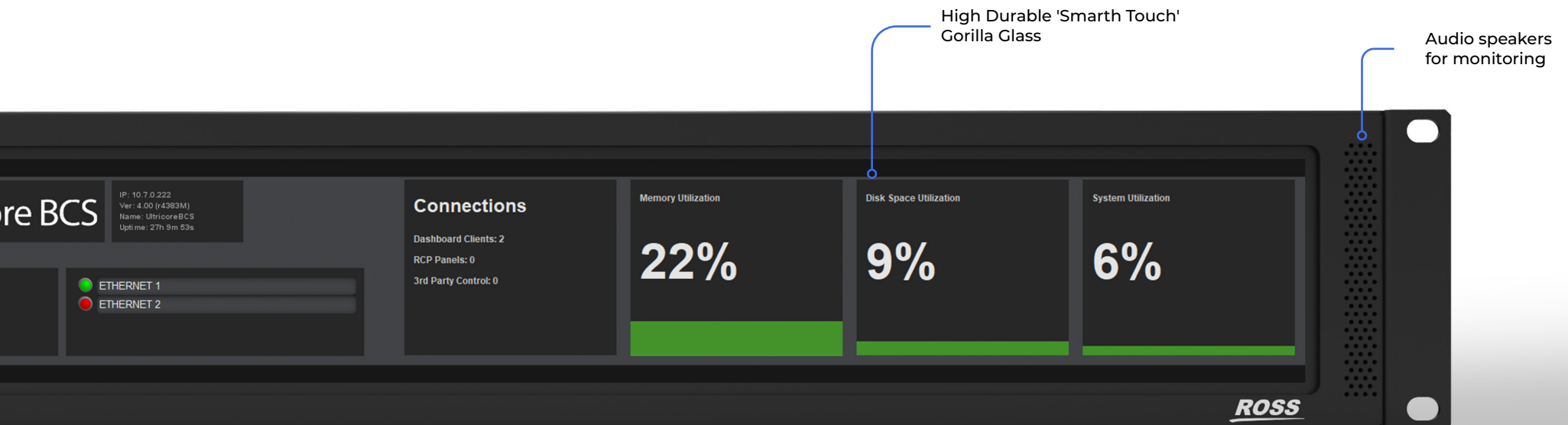


You Choose: When is Ultracore BCS Required?



Ultrix Frame

SPECIFICATIONS	ULTRIX STANDARD	ULTRICORE BCS
Control Panels & Ultrix Frames	Any combination up to 50 HW panels & Ultrix frames Up to 25 DashBoard clients	Up to 100 clients
Control of 3 rd Party Router	Yes	Yes
IP Control		The innovative Ultracore IP SW license allows for scalable, easy integration of IP signals into hybrid or pure IP environments
Serial Ports	With USB to Serial adaptor	With USB to Serial adaptor
Form Factor	Integrated	2RU frame with integrated touchscreen control



ULTRICORE & ADVANCED CONTROL

The industry is going through rapid change. New signal transport standards and network topologies are bringing systemic challenges as these are being adopted. What is extremely critical is that even with these changes the speed, workflows, and configurations of these system remain easy, fast, reliable, and intuitive. Ultracore BCS is built on decades of experience in optimizing and understanding user workflows. Most importantly, it has been designed to harness the best of these new emerging technologies while maintaining the best of traditional workflows. The result is a powerful, scalable, control system that is easy to adopt and use and can grow as your needs evolve.

ULTRICORE IP

- Optional Powerful SW License that runs on the NEW Ultracore BCS System Controller
- Scalable based on the number of streams required for control in the system
- Use same routing workflows regardless of transport to enable easier integration in hybrid operations
 - **SAME** logical configuration
 - **SAME** control surfaces
 - **SAME** operator confidence

ULTRICORE-TLX

- Optional SW license for Ultracore-BCS to enable advanced tie line management
- Supports shortest-available-path multi-hop routing
- Works in conjunction with Ultrix-IP/Ultracore-IP to route SDI or IP Video seamlessly.
- Allows tie lines between supported router types (e.g. Ultrix, NK, supported Third party matrices) to connect between sites or expand system IO
 - Simple, DashBoard based tie-line configuration and status/monitoring GUI (table based)

ULTRICORE BCS & IP SYSTEMS

ROSS Direct (Using Ultracore IP)

- Ultracore IP discovers, registers, and exposes multicast streams
- Streams added into the Ultrix database as available ports
- Control & configuration with Dashboard and/or Ross control panels
- 3rd party router control via GVG, Nvision, and Probel protocols

ULTRICORE TALLY

Ultracore Tally is a comprehensive tally control and management solution designed for efficient coordination and collaboration in production environments. Essential for live broadcasting, Ultracore-Tally provides status updates to control room personnel and on-air talent, ensuring a smooth and professional presentation.

Key Features:

Extensive Interoperability, Versatile Display Options, Comprehensive Equipment Control, Scalability for Any Environment, Advanced Configuration Capabilities, Simple to License and Deploy.



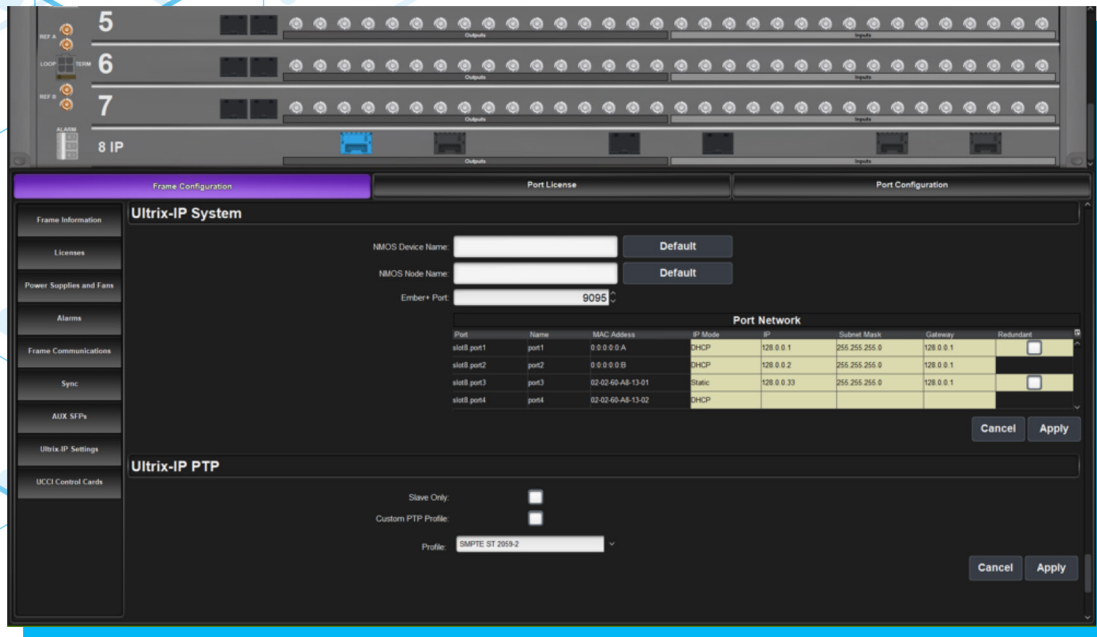
IP

tricore BCS

ROSS

IP CONNECTIVITY MADE EASY

Simple, familiar configuration paired with sophisticated discovery and registration makes adding IP into systems straightforward.



SIMPLE PORT SETUP

Ultracore permits users to quickly set up ports for all of the Ultrix-IP-IO boards. Set communications, ranges of IP addresses or set to DHCP, and set up redundant/non redundant ports from one screen.

5ru-rack-217 - Ultrix-Sru@10.7.0.217 **5ru-rack-217 - Ultrix-SRU**

5
6
7
8 IP

Frame Configuration Port License **Port Configuration**

slot8.port3

Status

Port State: OK
 Sender Bandwidth: **21.2 of 25Gb used**
 Receiver Bandwidth: **Free**

Senders

Port	Name	Type	Signal Format	Channels	Transport IP	UDP Port	Redundancy	Session ID	Stream ID	Alarm Severity	Alarm Description
slot8.out[0] sds ch1	slot8.out[0] sds ch1	Video	1080i59	1	239.0.0.1	5000	5000	53966442727052224	4617323851673736		
slot8.out[0] audio ch1	slot8.out[0] audio ch1	Audio		1,2,3,4,5,6,7,8	239.0.0.2	5000	5000	53966442727052230	4617323850884116		
slot8.out[0] audio ch5	slot8.out[0] audio ch5	Audio		9,10,11,12,13,14,15,16	239.0.0.3	5000	5000	53966442727052231	4617323854203236		
slot8.out[10] sds ch1	slot8.out[10] sds ch1	Video	1080i59	1	239.0.0.4	5000	5000	53966442727052233	46173238526253666		
slot8.out[10] audio ch1	slot8.out[10] audio ch1	Audio		1,2,3,4,5,6,7,8	239.0.0.5	5000	5000	53966442727052234	461732385694876		

Receivers

Port	Name	Type	Signal Format	Channels	Transport IP	UDP Port	Redundancy	Session ID	Stream ID	Alarm Severity	Alarm Description
							0				

Setup Default Senders

Redundancy: **none**

IP Address: **239.0.0.1**

UDP Port: **5000**

Video Format: **1080p 59.94**

Audio Channels: **1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16**

Default Edit Delete Add

Default Edit Delete Add

Cancel OK

CREATE SENDERS & RECEIVERS

Ultracore provides several ways to create senders and receivers on each port. You can set IP addresses, signal formats, and channel counts manually, or use the default builder to quickly allocate an entire port. Bandwidth state and alarms are readily accessed from the same page.

Network Database Transfer Setup Storage Logs Ultracore IP

Main Connections Status Events Hidden Debug

No Items

Pathfinder **active** **Start** **Stop** **Restart** **RDS Service** **active** **Start** **Stop** **Restart**

Refresh Upload Reboot Close

POWERFUL IP NETWORK DISCOVERY

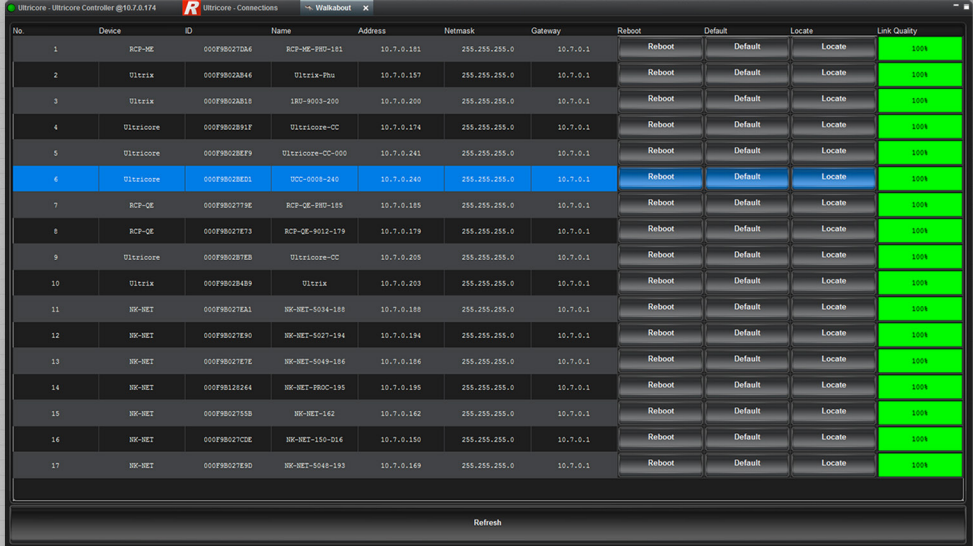
With the Ultracore IP license, users can discover their entire network using NMOS IS-04/05 registration and discovery. All devices are added to the Ultracore ports list to allow for control from common hardware and software control surfaces.

REDUCTION IN SETUP TIME

Ultracore is designed to provide maximum flexibility to you in designing your systems, while providing tools to make things easier.

WALKABOUT AUTO DISCOVERY TOOL >

Ultracore's superior experience begins with the Walkabout tool. Walkabout is a device discovery and configuration tool that gives you the ability to discover, apply network settings, and group Ross Video routers and associated hardware control panels into systems. This can be performed quickly without having to know current IP settings, saving valuable time.



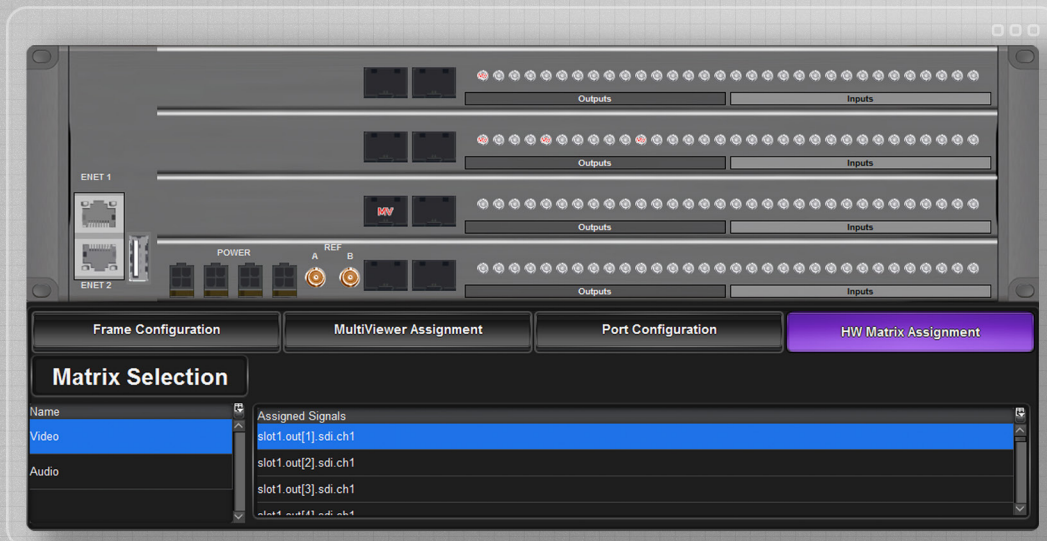
Ultracore - Ultracore Controller @10.7.0.174

No.	Device	ID	Name	Address	Netmask	Gateway	Reboot	Default	Locate	Link Quality
1	RCF-ME	000F8027D04	RCF-ME-PHD-181	10.7.0.181	255.255.255.0	10.7.0.1	Reboot	Default	Locate	100%
2	Ultrix	000F802A844	Ultrix-Phi	10.7.0.157	255.255.255.0	10.7.0.1	Reboot	Default	Locate	100%
3	Ultrix	000F802A818	180-9003-200	10.7.0.200	255.255.255.0	10.7.0.1	Reboot	Default	Locate	100%
4	Ultracore	000F802B91F	Ultracore-CC	10.7.0.174	255.255.255.0	10.7.0.1	Reboot	Default	Locate	100%
5	Ultracore	000F8028EF9	Ultracore-CC-000	10.7.0.241	255.255.255.0	10.7.0.1	Reboot	Default	Locate	100%
6	Ultracore	000F8028E21	WC-0009-240	10.7.0.240	255.255.255.0	10.7.0.1	Reboot	Default	Locate	100%
7	RCF-DE	000F802778E	RCF-DE-PHD-185	10.7.0.185	255.255.255.0	10.7.0.1	Reboot	Default	Locate	100%
8	RCF-DE	000F8027E73	RCF-DE-PHD-179	10.7.0.179	255.255.255.0	10.7.0.1	Reboot	Default	Locate	100%
9	Ultracore	000F80287E8	Ultracore-CC	10.7.0.205	255.255.255.0	10.7.0.1	Reboot	Default	Locate	100%
10	Ultrix	000F802B489	Ultrix	10.7.0.203	255.255.255.0	10.7.0.1	Reboot	Default	Locate	100%
11	HW-MET	000F8027E41	HW-MET-5034-188	10.7.0.188	255.255.255.0	10.7.0.1	Reboot	Default	Locate	100%
12	HW-MET	000F8027E90	HW-MET-5027-194	10.7.0.194	255.255.255.0	10.7.0.1	Reboot	Default	Locate	100%
13	HW-MET	000F8027E7E	HW-MET-5049-186	10.7.0.186	255.255.255.0	10.7.0.1	Reboot	Default	Locate	100%
14	HW-MET	000F80210264	HW-MET-PROC-195	10.7.0.195	255.255.255.0	10.7.0.1	Reboot	Default	Locate	100%
15	HW-MET	000F802755B	HW-MET-162	10.7.0.162	255.255.255.0	10.7.0.1	Reboot	Default	Locate	100%
16	HW-MET	000F8027C8E	HW-MET-150-016	10.7.0.150	255.255.255.0	10.7.0.1	Reboot	Default	Locate	100%
17	HW-MET	000F8027E9D	HW-MET-5048-193	10.7.0.193	255.255.255.0	10.7.0.1	Reboot	Default	Locate	100%

Refresh

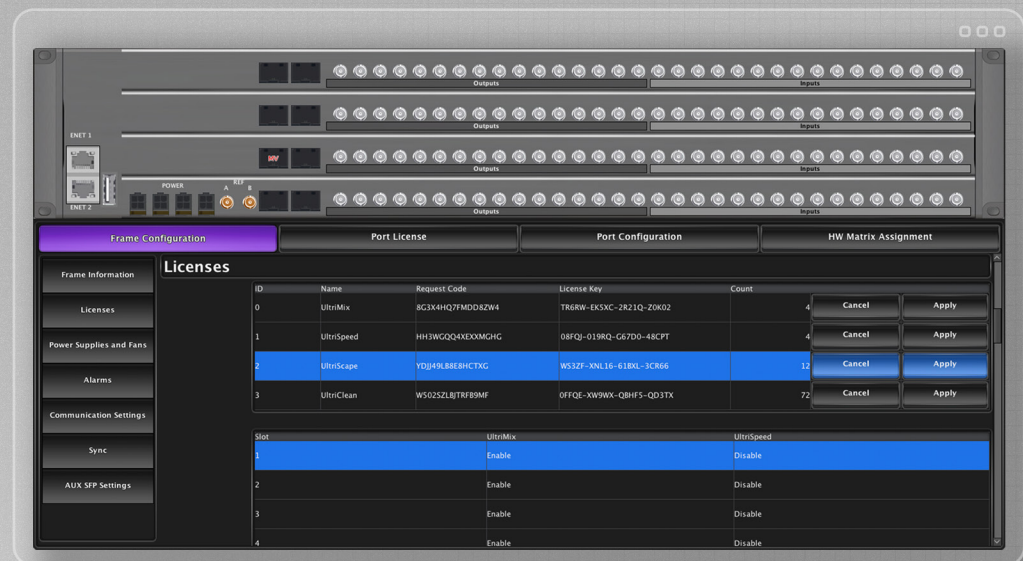
< HARDWARE PORT MAPPINGS

Ultracore provides a visual replica of the I/O of the Ultrix chassis. This makes it easy to assign attributes and licenses to ports. Create MultiViewer heads, clean switch video outputs, and more simply by clicking on the desired port and enabling the license. Additionally, attributes like linking ports together for Gearbox, setting failover behaviors for clean switch outputs, and configuring hardware partitions are all done within this elegant graphical user interface.



SOFTWARE LICENSE MANAGEMENT >

Ultrix has a powerful series of software licenses. These licenses enable features like integrated MultiViewers, advanced audio processing and routing, video clean switching, and 12 Gb/s signal support. Ultracore makes it easy to enable and manage all of these licenses with an easy to navigate user interface.



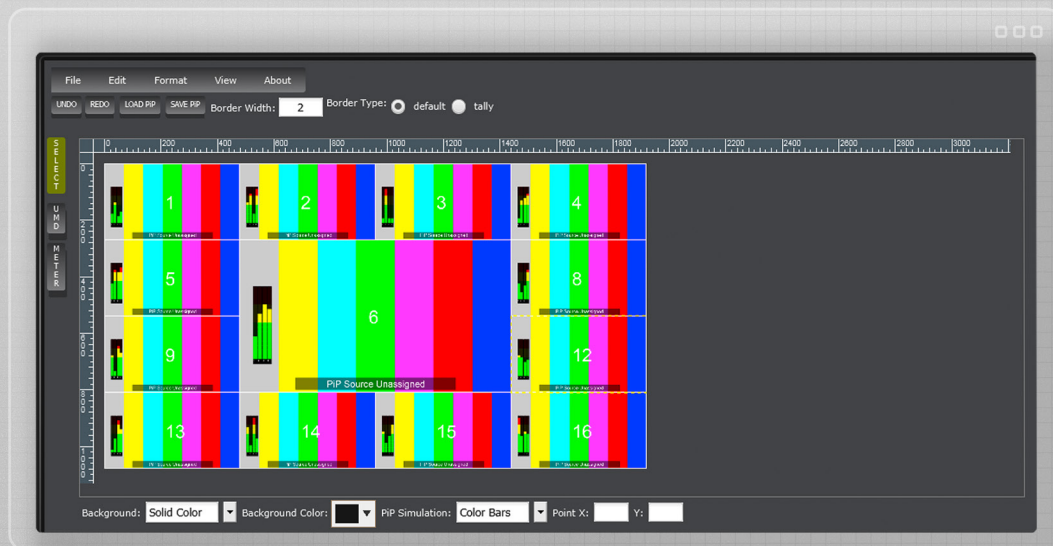
ID	Device ID	Name	Enabled	Connected	Protocol	Communication
0	NK-NET-150	NK-NET-150	Enable	Connect	Ross NK	TCP ip 10.7.0.150 port 5000
1	TBus0	TBus0	Enable	Connect	Ross NK	TBUS port COM3
2	NK-NET-162	NK-NET-162	Enable	Connect	Ross NK	TCP ip 10.7.0.162 port 5000
3	UIM-SYSTEM	TSL 31	Enable	Disconnect	TSL UIM v3.1	TCP ip 10.7.0.31 port 5727

< 3RD PARTY DEVICE INTEGRATION

Ultracore permits users to add third party routers easily. Simply add the device, protocol and port information, and matrix size.

SIMPLE CONFIGURATION

One of Ultracore's real strengths is how easy it makes configuring a system. The configuration tools draw on decades of experience by people that actually know routers and connectivity. You will find Ultracore visually and logically easy to understand, use and be productive with.

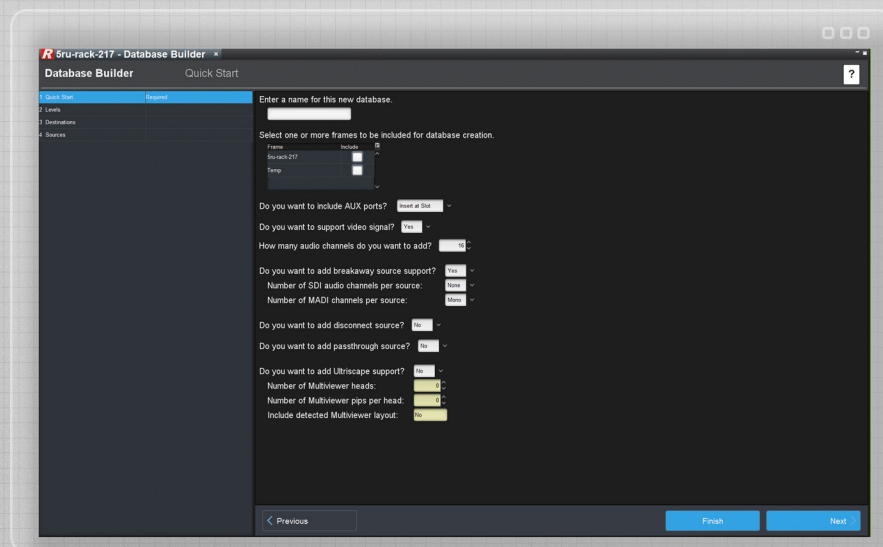


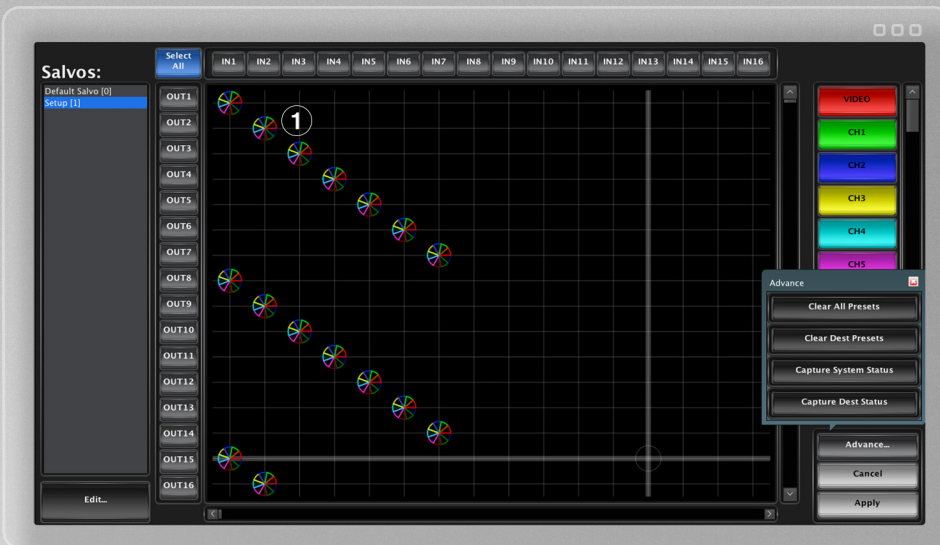
< MULTIVIEWER EDITOR

Create layouts with user definable labels (UMD's), audio meters, and tally support. Layouts can be recalled to any MultiViewer output within the system.

DATABASE BUILDER >

The Database Builder makes it easy to create an Ultrix system. Simply choose the frames you want to be part of the system and follow the steps. The database Builder then creates all your logical entries for you. Create a complete database that has you up and running in minutes.





< SALVO EDITOR

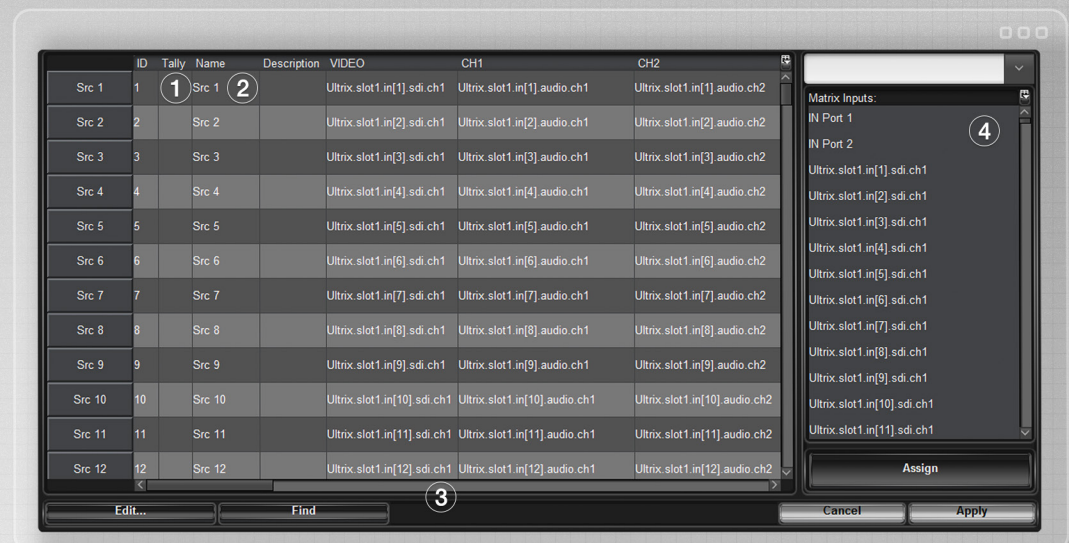
Ultracore has a number of features that your operational staff will find quite useful, one of those is Salvos. A Salvo is the ability to execute a collection of crosspoint switches all at once with a single command. Ultracore's integrated salvo editor provides an easy, visual way to create salvos. This can be done from a blank configuration, from an entire system status capture, or from the current status of the router's destinations. Additionally, you can capture and create salvos from within the software control panels of Ultracore, making it simple to store and retrieve snapshots of systems.

1. View Salvo configuration based on level assignment for each crosspoint

DATABASE EDITOR >

One of the most powerful features of Ultracore is its database editor. The editor is a logical switching based system, which means you are able to interact with the inputs and outputs of the system by the names created in the database. Even more compelling is that you can then assign different ports and channels under a single database entry, with no real restrictions on how they are grouped together. Not only does this capability provide for a tremendous amount of flexibility, but changing a source or destination configuration is as simple as assigning new ports. There is no need to create entire new entries, which saves an enormous amount of time.

1. Tally ID Column
2. Status name for each source / destination
3. View the physical port assignment by level for each source and destination
4. Physical ports available to be used in the system



ENHANCED USER EXPERIENCE

Ultracore provides integrated, completely customizable software panels free of charge. This gives users flexibility to create panels tailored in type and function for specific applications.

SINGLE-BUS >

A panel that controls a single, user defined output. Ideal for applications where speed, or security concerns are important.

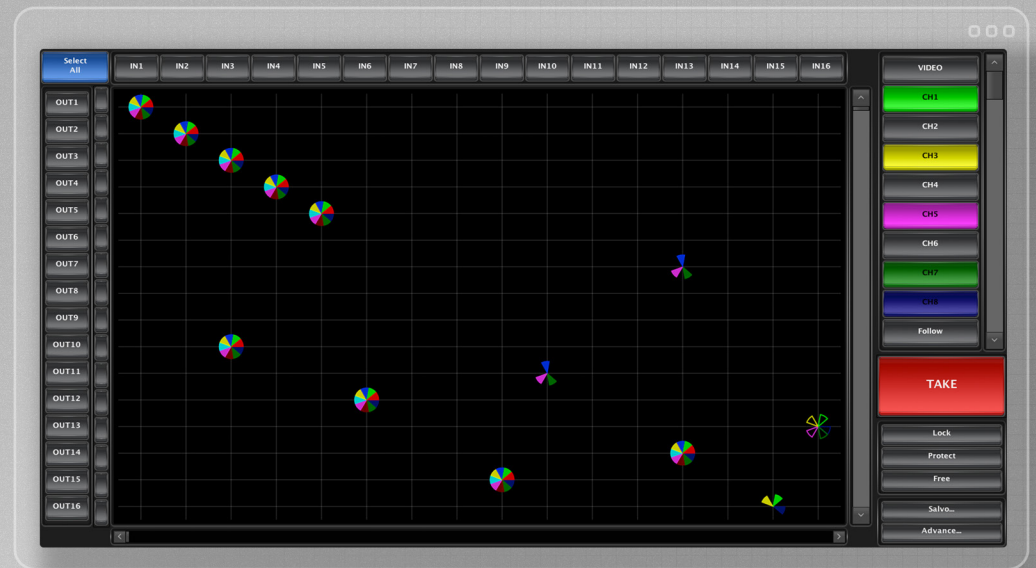


< CATEGORY

A panel that groups sources, destinations, and levels into categories for quick access. Great for systems with large databases, or where breakaway switching is required.

MATRIX >

A panel designed to provide a visual representation of the status of crosspoints. Ideal for applications like breakaway audio switching, 1 to many, salvo creation and statusing.



< MULTI-BUS

A panel that controls multiple, user defined outputs. Provides ability to control a subset of router outputs from a single panel. Gives the ability to switch a single output at a time, or the ability to switch a source to multiple outputs simultaneously.

UNIFY YOUR OPERATION

Ultracore is a DashBoard application, making it part of the DashBoard ecosystem. This makes possible a range of CustomPanels tailored to your specific needs that go far beyond just connectivity control to include everything in your facility.

DashBoard is an open platform for facility control and monitoring that enables users to quickly build unique, tailored CustomPanels that make complex operations simple. DashBoard provides control and monitoring to hundreds of products from over 50 partners within the openGear and DashBoard Connect ecosystem, or any 3rd party IP-based device. Its ability to craft application specific solutions across this breadth of products is what makes DashBoard so special.

DashBoard Connects



Carbonite Production Switchers



XPression Graphics Systems



Furio Robotics



PivotCam and Acid Cameras



CamBot Robotics



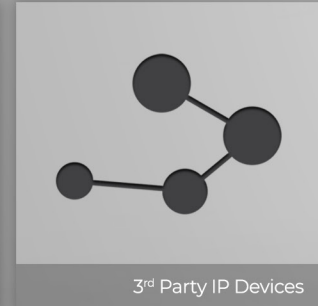
Abekas Mira Replay Servers



Acuity Production Switchers



openGear



3rd Party IP Devices



NK Routers



MCI Master Control



OverDrive Automation Systems



Ultrix
Routers



DASHBOARD PANELS

DashBoard is a control system that can be molded to fit the needs of a variety of applications. Standard user interfaces allow quick access to control and monitor Ross equipment with minimal setup required. Additionally, DashBoard can be configured for sophisticated workflows, applications, and user groups, with fully customized graphics, alarming, control access, and reporting for the most demanding environments.

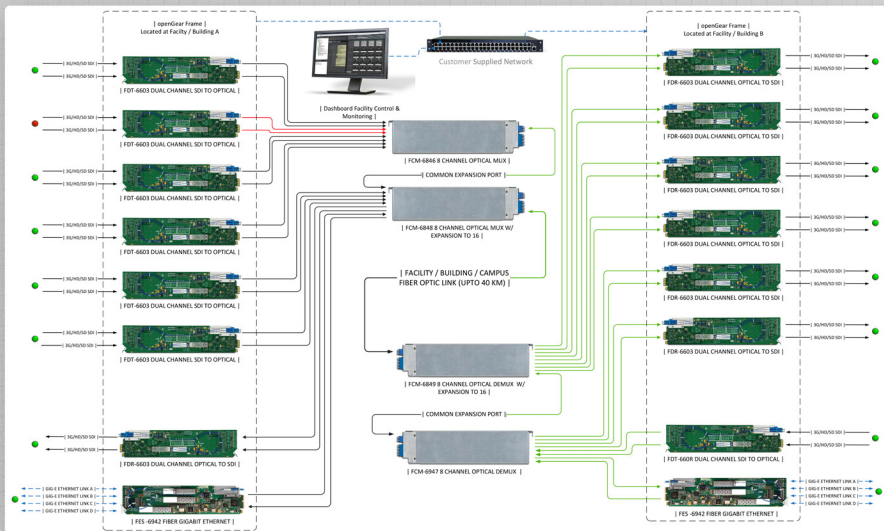
STREAMLINE PRODUCTION >

DashBoard can be used to build an easy to use, simple interface for the entire production. Switchers, graphics, routing, and infrastructure can all be controlled and monitored from a single, customized panel.



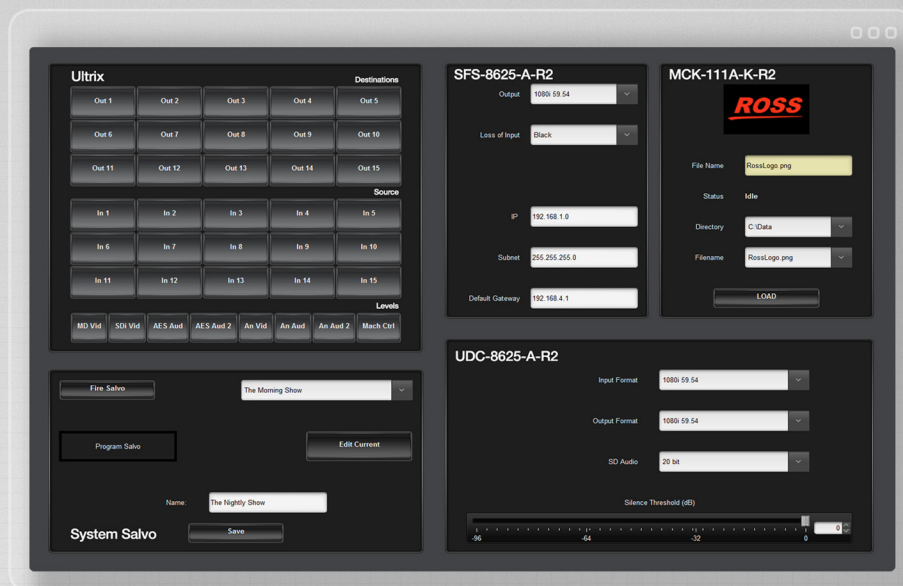
< SYSTEM MONITORING

DashBoard provides a powerful interface to monitor your facility. By importing facility signal flow diagrams as a background, hotspots can be placed that allow for control, alarming, and monitoring of specific devices and signal chains. This provides users a single interface to make and correct problems and monitor failures.



DASHBOARD SPECIALIZED APPLICATIONS >

DashBoard can be used to build specialized applications like the one on the right, the Legislative Control System (LCS). It was created to meet the needs of legislatures around the world to produce an increasing amount of video coverage. LCS makes it easy for a single operator to control all of the production equipment including graphics, video switching, and cameras via an intuitive, visual user interface.



< CUSTOM PANELS

Facility control rooms have many different pieces of equipment to configure, manage, and control. The Ross DashBoard platform is a way to manage multiple components quickly with the control interfaces served by the devices themselves. Users can create custom panels to provide access to only the desired parameters for specific users or applications. This improves workflows by creating a consolidated view of multiple devices to a single interface.



ULTRITOUCH CONTROL PANEL

OVERVIEW

Ultritouch is a powerful system control panel from Ross Video that is totally customizable and has been designed around you. The panels are a 2RU or 4RU rack-mountable touchscreen that builds on the functionality of traditional control products by adapting to your workflows, and it features a user interface that has more in common with a modern smartphone than a broadcast control panel. The magic of Ultritouch lies in its powerful Smart Touch capabilities. Ultritouch supports Ross Video's DashBoard platform natively, giving users unlimited flexibility to build panels that meet their working needs without any restrictions on numbers of buttons, button placement or display windows.

Smart Touch was developed to address the growing need for control surfaces that support traditional functionality but also offer greater levels of customization for the very precise and complex workflows of our most demanding customers. At its heart, Ultritouch features a full version of DashBoard – Ross Video's open control platform – which enables users to:

- Control a wide range of Ross products including production switchers, XPression graphics, Overdrive APC, openGear and Ross Routing systems, among others.
 - Quickly change between panel styles and layouts, maximizing the usability of the panel and making your operations more efficient.
 - Create and import custom panels
 - NDI stream monitoring
 - Control of 3rd party products via OGP
- In addition, Ultritouch combined with Ultrix routers gives users a tremendous amount of flexibility and advanced power including:
- Quick setup using the Ultrixcore soft panel wizard
 - Custom panel layouts using flexible Windows and Drawers based on user preference
 - Button per source, Cat/Idx, Grouping, Favorites, Advanced Statusing, Salvo operations and more
 - Destination follow monitoring with video using NDI streaming direct on the panel
 - A multiviewer control panel that allows for control of layouts, pips, and pip behavior. This graphics intensive panel simplifies use and makes it very easy to control large amounts of multiviewers from a single control surface.



FEATURES

- 2RU and 4RU Touch-enabled Dashboard based RCP
- Shallow depth(2.5") with sideways connector layout (to maximize leg room in desk applications)
- Redundant Power Supply (optional)
- Integrated Speakers for monitoring (future application)
- HDMI & USB ports
- System wide discovery via Walkabout
- Dashboard based for easy & fast configuration
- Full control of most Ross Products - Routers, Multi-viewers, Switchers, Graphics, APC, Processing Platforms, and more
- Dashboard tree & system management support
- Ability to store multiple panel types with intuitive navigation based on desired workflow
- Fast Reboot and control for mission critical operations
- Seamlessly fits into the current Ross control ecosystem
- Backed by famous Ross support
- Optional VESA mount for 4RU panel

Ultritouch-RTR Features:

- Touch-based router soft panels optimized for comprehensive and intuitive operations
- Drawer and Window creation for completely customized workflow and panel layout
- Additional Ultritouch optimized panel for enhanced menuing, status, and control
- Standardized BPS, Enhanced BPS, Monitoring, Cat/Idx panels and more
- Fast, highly visual multiviewer specific control
- Automatically retrieve databases
- Ability to support up to 25 panels per Ultrix frame, up to 100 when using Ultracore BCS

ORDERING INFORMATION

ULTRITOUCH 2 - 2RU Touchscreen control panel

ULTRITOUCH 4 - 4RU Touchscreen control panel

ULTRITOUCH-PS Optional redundant power supply



RCPME

OVERVIEW

The RCP-ME is the most popular NK Series control panel and finds a home in a wide range of applications due to its familiarity, flexibility and cost-effectiveness. The RCP-ME has all of the same button programmability as the RCP-NK1 (source, destination, break-away, level select, macro, protect, take and panel lock), and adds salvos, direct Ethernet connection, and a backlit 16x2 LCD display for display of source and destination names, system warnings and errors.

The RCP-ME is an Ethernet based panel, which means improved ease of configuration, and a more flexible control architecture. When used in systems with Ultrix, it stays constantly in sync with the Ultracore controller, so any changes to the system database are automatically pushed to the panel, making it seamless to update.

Additionally, the RCP-ME adds the ability to create menus which enables the grouping of sources and destinations based on physical requirements (studios, edit suites, QC racks) or categories (servers, cameras, monitors). Menu navigation buttons programmed onto the RCP-ME also enable quick access between menus.

Multiple RCP-MEs can be tied together to operate as a single, larger panel. By doing this, the tied RCP-MEs can operate as a larger menu driven source / destination switching panel or a larger cut bus panel with a single button per source access. The variable back-light permits labels to be read in low light control room conditions, making this panel ideal for a wide range of environments.



FEATURES

- 40 fully illuminated LED backlit buttons
- Backlit 16x2 LCD display
- Ethernet connectivity
- Ability to connect to primary and backup IP addresses for control redundancy
- Slim design: 1RU, depth 4.4cm
- Full function, programmable control panel
- Configurable as cut-bus, multi-cut bus or menu driven source / destination switching control panel
- Control up to 32 levels
- Removable keycaps for labeling of button functions using transparent inserts
- Universal power supply included
- 5-year transferable warranty

ORDERING INFORMATION

RCP-ME Ethernet based Ross Routing 40 Button and LCD Display Control Panel

NK-5V2A Shelf Spare Power Supply for the RCP-ME



RCPQE SERIES

OVERVIEW

The RCP-QE Series offers unmatched flexibility and ease-of-use. They are ideal for use in OB vans or production houses where configurations change regularly, and are equally useful in studios where unlimited configurations enable fast and simple customized setups of each panel.

Ethernet based connectivity means increased ease of configuration, and provides for more flexible control architectures. The RCP-QE Series remote control panel offers 18 or 36 colored backlit graphic LCD keys with multiple menus, enabling users to easily navigate through the system with just a few key presses.

Using the category function, users can quickly navigate through hundreds of sources and destinations, making it an ideal menu driven source / destination switching panel for any size router.

As with all the other control panels, each button can be programmed to function as a source, destination, breakaway, level select, salvo, protect, take and panel lock button. Custom key labels (up to 10 characters across 2 lines) and colors are all user-definable. Source / destination names are automatically updated on the panel as changes are made and saved within the Ultracore Database Editor, making panel updates quick and seamless.

FEATURES

- 18 (RCP-QE18) or 36 (RCP-QE36) backlit graphic LCD keys
- 8 programmable function keys
- Slim design: 1RU, depth 4.4cm
- Ethernet based control
- Ability to connect to primary and backup IP addresses for control redundancy
- Full function, programmable control panel
- Menu driven and single key configurations
- Unique multi-level menu programming
- Configure with DashBoard Control System
- Universal power supply included
- 5-year transferable warranty

ORDERING INFORMATION

RCP-QE18 Ethernet based Ross Routing 18 LCD Illuminated Button Control Panel

RCP-QE36 Ethernet based Ross Routing 36 LCD Illuminated Button Control Panel

NK-5V2A Shelf Spare Power Supply for the RCP-QE Series



A CONTROL SOLUTION FOR ULTRIX AND NK

During development, it was important that the needs of tomorrow's connectivity systems were squarely in focus. However, it was also a desire to be able to use the advanced features of Ultracore with all Ross Video routing solutions. As such, there is a full line of NK products that can be used within an Ultracore controlled system. These include hardware control panels, GPI boxes, and bidirectional interface translators that convert native Ross routing NK protocol over T-Bus to Ethernet. This means that Ultrix can fit seamlessly into facilities with existing NK routers, as well as permitting the reuse of panels, protocol translators, and other legacy control components.

RCPNK1

The RCP-NK1 is a simple and cost-effective control panel that can be used in a wide variety of applications. Ideally suited as a menu driven source / destination switching control panel for small routers or as a cut-bus or multi-cut bus control panel for any sized router, the RCP-NK1 features 40 soft, fully programmable backlit keys arranged in a 32 + 8 configuration for convenient function key layout.

FEATURES

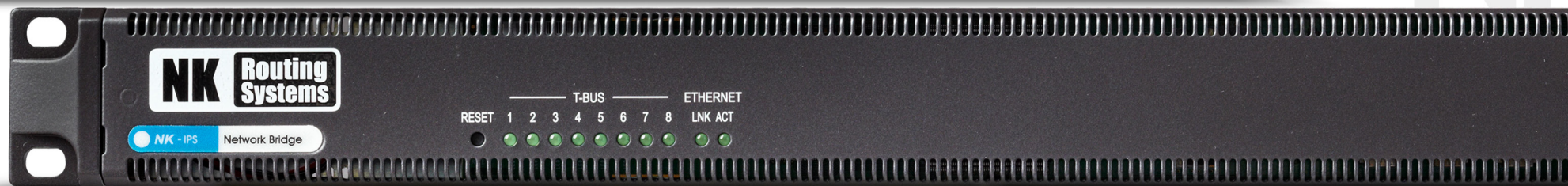
- 40 fully illuminated LED backlit buttons
- Slim design: 1RU, depth 4.4cm
- Full function programmable control panel
- Configurable as cut-bus, multi-cut bus or menu driven source / destination switching control panel
- Control up to 8 levels, across 16 breakaways
- Removable keycaps for labeling of button functions using transparent inserts
- Can be mounted on the front of any NK-16 router, providing an integrated 1RU routing and control solution
- Phantom-powered via T-Bus (requires an NK-IPS or Ultracore-CC to be used with Ultrix)
- 5-year transferable warranty

NKIPS

The NK-IPS Network Bridge is a device for configuration, firm control. It can also be used to enable NK devices to Ultrix routers.

FEATURES

- Compact size: 1RU, depth 2.4cm
- Password protection to prevent unauthorized access
- Front panel status and control
- 8 port hub for T-Bus connectivity
- 10/100 Ethernet port
- Supports static or DHCP assigned IP
- Universal power supply including PoE
- Optional redundant power supply
- 5-year transferable warranty



s the external gateway to all NK Series
ware upgrades, monitoring and remote
s a bridge to connect legacy T-Bus en-
ting systems.

4cm

ent unauthorized changes

munications indicators

ted devices

igned IP addressing

ded

y

NKNET

In an effort to simplify NK routing solutions, and provide significant cost savings for a more cost-effective routing solution, Ross offers the NK-NET configuration dongle. This simple, unobtrusive dongle provides users the ability to configure an NK router, and up to 4 NK remote control panels via DashBoard, without the need of an NK-IPS.

Restrictions of NK-NET Applications:

- NK-NET requires the router to host the connection. Use NK-IPS to support panels directly.
- NK-NET does not support advanced mapping.
- NK-NET only allows a single DashBoard connection.
- NK-NET does not support MC-1 or Carbonite eXtreme.

FEATURES

- Enables Ethernet configuration of any NK Router from DashBoard
- Ships as standard and is automatically included with every NK router (orderable separately as well for legacy installations)
- Configures both the router and up to 4 T-Bus connected NK panels
- Replaces the need for an IPS for simple, router installations – saves costs, saves space, saves complexity
- Powered by T-Bus connection, no external power supply required

NKGPI

The NK-GPI is a stand-alone, universal, general purpose interface for the Ross Video NK and Ultrix Series family of routers. Providing GPI inputs and outputs, the NK-GPI enables flexible GPI control, configured from a web browser or the DashBoard Control System, via the NK-IPS or Ultricore-CC external controllers. The NK-GPI also supports both GPI input return and latch modes.

FEATURES

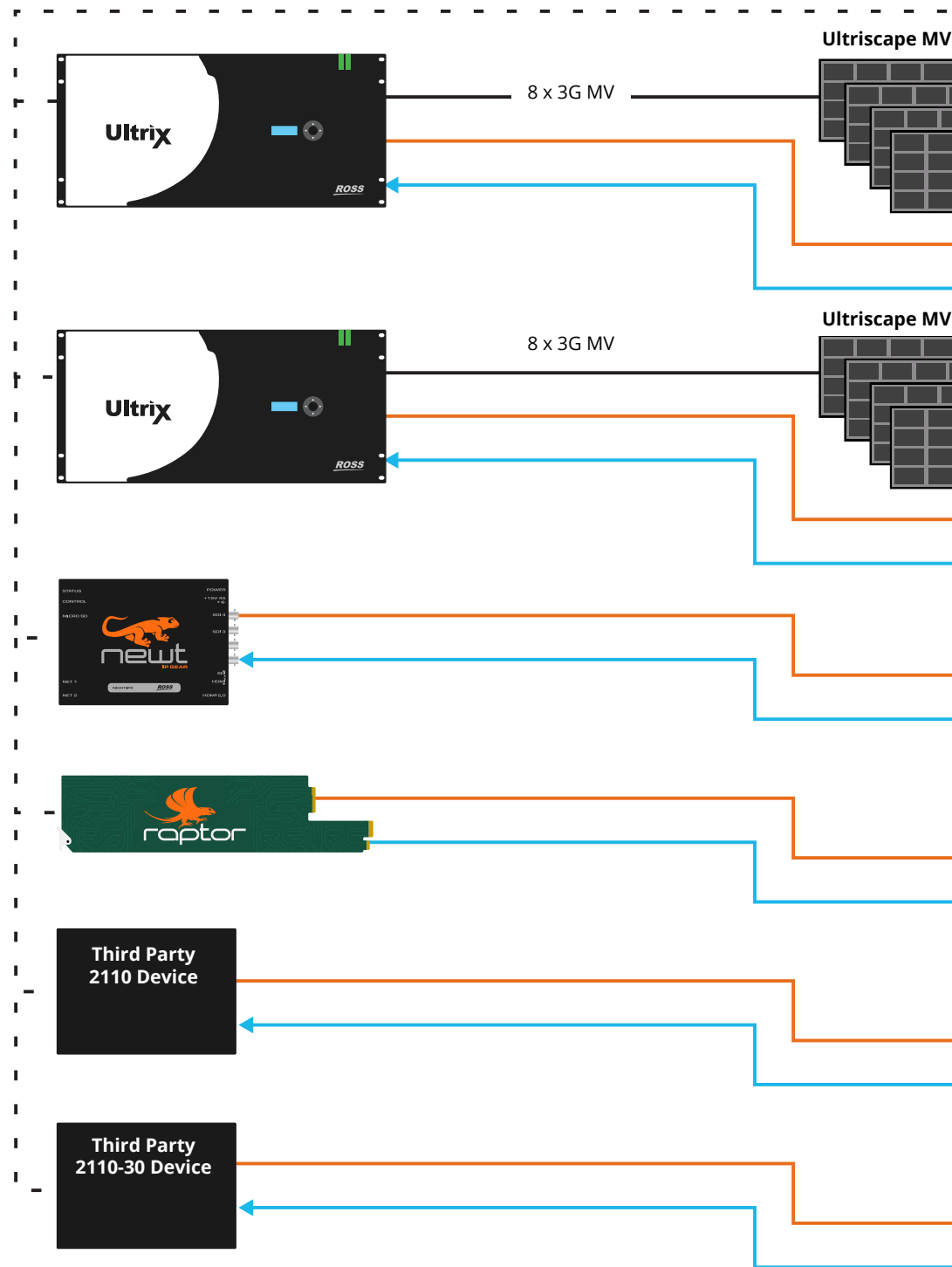
- 16 GPI inputs and outputs
- Return / latch mode
- Easy to install and operate
- Phantom-powered via the T-Bus (Requires either an NK-IPS or Ultricore-CC to be used with Ultrix routers)
- 5-year transferable warranty

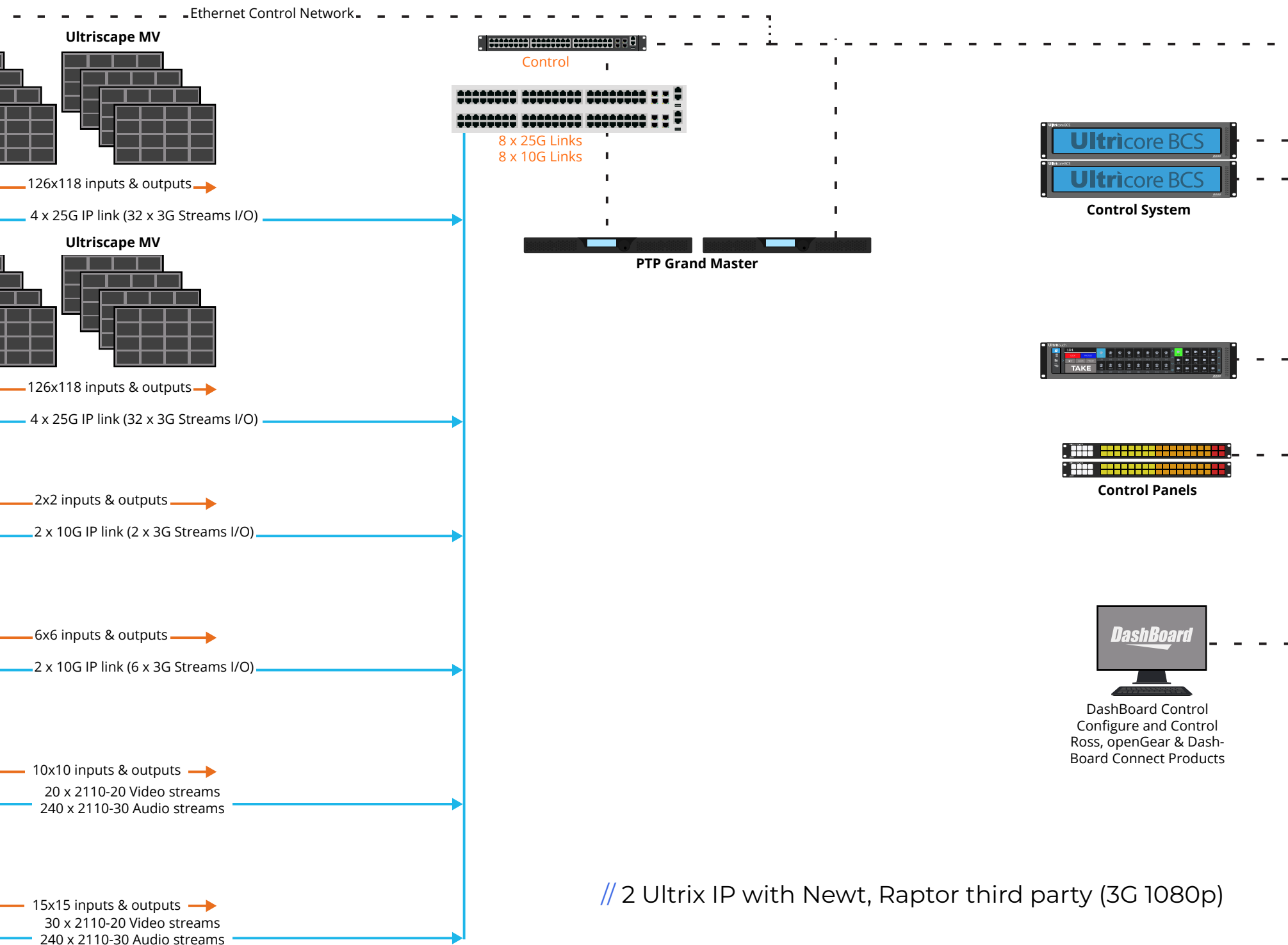


*For a full description of NK Products, please see the Infrastructure Catalogue.

SYSTEM CONNECTION BASICS

There are many ways to build the connectivity of a routing system. Included here are some of the more common system designs that are used for building Ultrix systems. These layouts are not exhaustive, but are meant to provide guidelines to follow when configuring a system. Please contact Ross Video for more information on specific system designs.





Ultracore

Ross Video has a complete range of technical services available to ensure that your Ultracore 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 production 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.

Ultracore 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

Email: techsupport@rossvideo.com



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

© 2024 Ross Video Limited

Released in Canada.

No part of this brochure may be reproduced in any form without prior written permission from Ross Video Limited.

This brochure is furnished for informational use only. It is subject to change without notice and should not be construed as commitment by Ross Video Limited. Ross Video Limited assumes no responsibility or liability for errors or inaccuracies that may appear in this brochure.

Ultracore_Brochure_240905

ROSS