### **IBC ROSS NEWS**

Raphael Samad

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**Business Development Manager** 

Production Switchers and Video Servers





### **Ross' Triple Track Roadmap**

Ross is devoted to three tracks at once, Individual, HCS and Cloud & Virtualized Software.

#### **Delivering Exceptional Video Experiences**







#### **Individual Optimized**

- Individual Optimized
- Sell on their own or part of a solution
- Can be "Hyperconverged" in their own right

#### Hyperconverged On-Prem

- Blend of Hardware and Software based processing
- Based around Ultrix as a Key Platform
- Leverages Ross' hardware expertise and ability for very efficient and cost- effective realtime processing.

#### **Cloud & Virtualized Software**

- Predominantly Virtualized CPU based processing
- Leverages public and private cloud technology.







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#### Ultrascene – New layering tool, HD Only

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- UltraScene enables users to build simple compositions using layers and a background
- Layers can be added in pairs and up to 4 independent 2 layer scenes can be created
- All Layers can be combined into a single composition
- UltraScene can be independently Recalled using Effects dissolves which includes dynamic assignment recalls
- Scenes can be included with memory recalls for full Attribute control however layer/scene configuration will not be modified





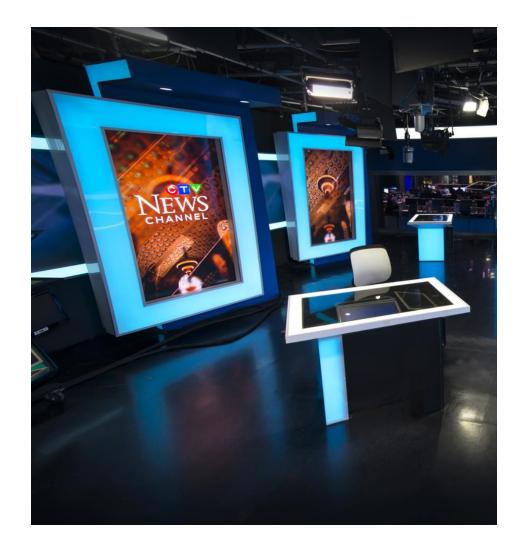
#### Sequencers – simple event automation

- Drop sequences of tasks / events / device controls onto a DashBoard Playout sequencer
- Multiple Sequencers can be linked or run independently
- Custom Controls and RossTalk can Load / Advance and "Next" sequencers
- Create Repeatable Simple Show productions without the complexity of knowing which button to press next!

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#### Output Rotators –Ultra and in HD ONLY



- With portrait hung monitors onset becoming more common a new Switcher Mode will allow users to trade resources for the ability (on 3 select outputs) to Rotate the display and select the region of interest to Crop.
- FSFC count drops to 12 to activate the required resources.





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## HYPERCONVERGED



#### **Hyperconvergence Definition**

Combining what were formerly multiple independent products into a unified, softwaredefined package that works together.



#### **The Past**









Camera

Calculator

Phone



GPS





#### **The Present**



#### 

Smart Phone

Smart Phone Applications



#### Hyperconvergence Advantages













Simplicity

Flexibility

Sustainability

Lower TCO

Extended life

Streamline Workflows



#### Hyperconvergence-Simplicity One platform, endless configurations



Functionality enabled with Hyperconverged blades:



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#### Hyperconvergence Platform-Streamlined Workflows



Simpler setup

Reuse of control clients



Tighter integration = more productivity

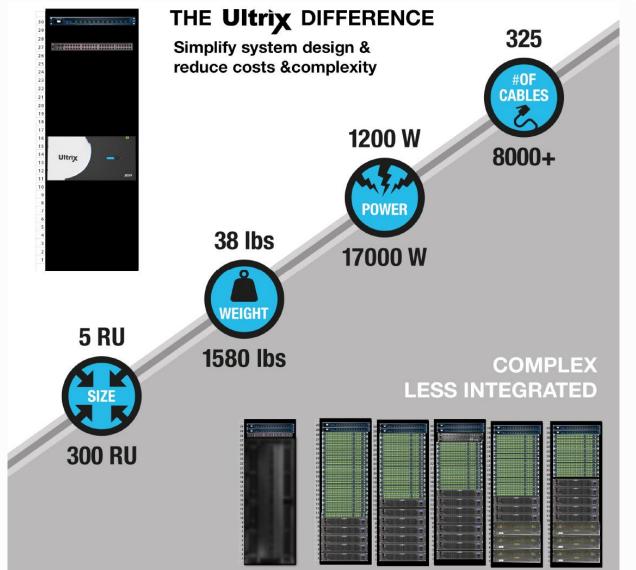


#### Hyperconverged: sustainability

• Less Power

Living Liv

- Less HW lowers space/cooling requirements
- SW features extend useable product life
- Decrease weight lowers shipping and remote production impacts



JSS Living Live!

# 



#### Ultrix

#### Ultra Powerful, Interconnected Routing, Multiviewer, Processing Platform

#### Software Enabled SmartFabric:

- Complexity made Simple
- Expand capabilities as requirements change

#### World's First 12G Platform:

- True 12G router
- 12G Software Defined Multiviewer
- 12G Clean/Quiet Switch
- 12G audio processing platform
- 12G software defined UHD Gearbox

#### **Robust Design:**

 Maximum reliability within a super compact platform offering superior functionality as future demands



#### Ultrix |

Ultra Powerful, Interconnected Routing, Multiviewer, Processing Platform

#### **4 Frame Sizes**

- 1RU: Up to 36x36
- 2RU: Up to 72x72
- 5RU: Up to 160x160
- 12RU: Up to 288x288

## SmartFabric





## What's New?



## ULTRIX-FR12

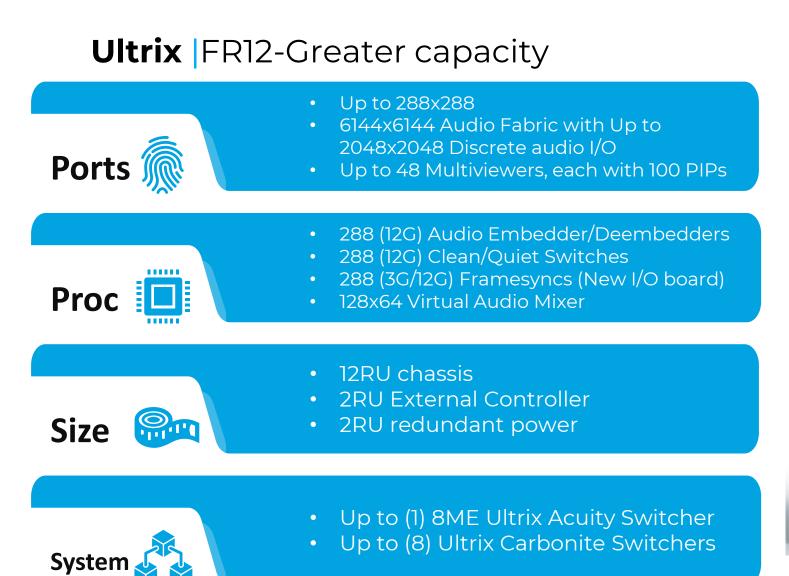


#### Ultrix | FR12

- EXTENDS ULTRIX I/O CAPACITY WHILE MAINTAINING ALL ITS CAPABILITY
- SAME I/O BOARDS AS 1RU, 2RU, & 5RU CHASSIS
- NEW FRAME
   ENHANCEMENTS
- GROUNDBREAKING
   NEW FRONT DOOR
- REVOLUTIONARY
   PRICE/PERFORMANCE





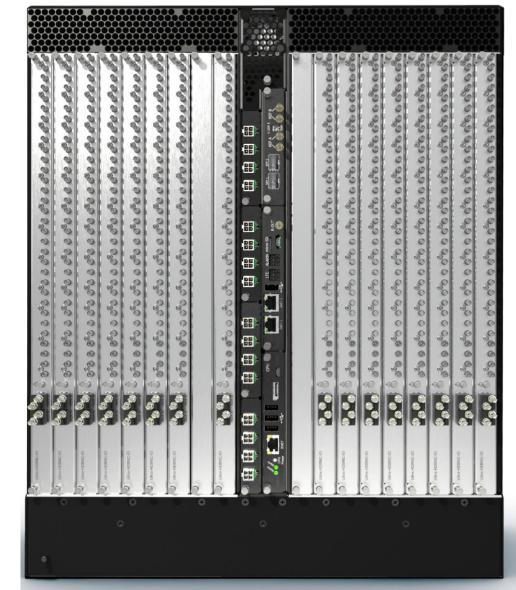


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#### **Ultrix** | FR12-physical layout

- Front to Back Cooling
- External Power Connections
- Hot swappable Reference
- Dual GigE for control plus LTC input
- Dedicated SDPE controller slot
- 16 I/O slots (2 of which are double slot openings)





#### **Ultrix** | FR12-physical layout

- Removable front door
- Replaceable crosspoint module
- Separate door for primary fan modules
- Front USB ports for keyboard/mouse

#### Not just bigger, but BETTER

- More thermal capacity
- More power budget
- More internal connectivity





## ULTRIX-FR12 Smart door



#### Ultrix | FR12 SMART DOOR

- First of its kind (patent application underway)
- Hyperconvergence extended
- Designed to improve engineering efficiency
- High resolution
- Password protected
- Dashboard enabled
- Comes with key preconfigured panels





#### Ultrix | FR12 SMART DOOR-Alarming

- Priority View of System alarms
- Configurable severity and hysteresis
- Sortable
- Quick link to port/function by click

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#### Ultrix | FR12 SMART DOOR-Control

- PB routing control
- Configurable
- AFV and breakaway
- Salvos
- Destination status

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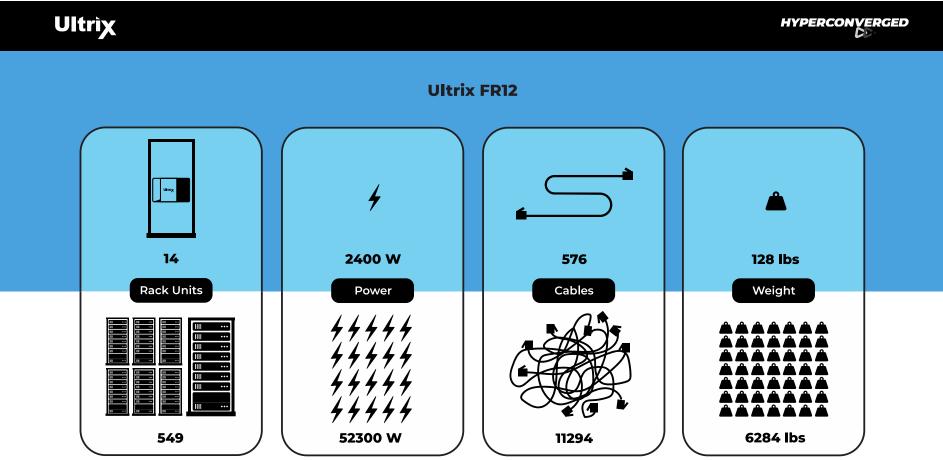
#### **Ultrix** | FR12 SMART DOOR-Configuration

- Quick access to individual ports
- Signal status of all ports
- Heads up alarm notifications
- Parametric control

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#### **Ultrix** | FR12 Hyperconvergence Defined



**Traditional System** 

Learn more at **rossvideo.com/ultrix** 



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## Hardware Overview

Frames and I/O Boards



#### **Ultrix Overview** | Complexity Made Simple.

#### Software Enabled:

Expand capabilities as requirements change with cost effective software licensing; significantly reducing the total cost of ownership.

#### Integrated Solutions:

- Routing
- Multiviewers
- Audio Switching Fabric
- Control

#### • Robust:

Count on maximum reliability with a compact routing platform that offers superior functionality and a design for future needs.

• Flexible I/O





## Ultriscape

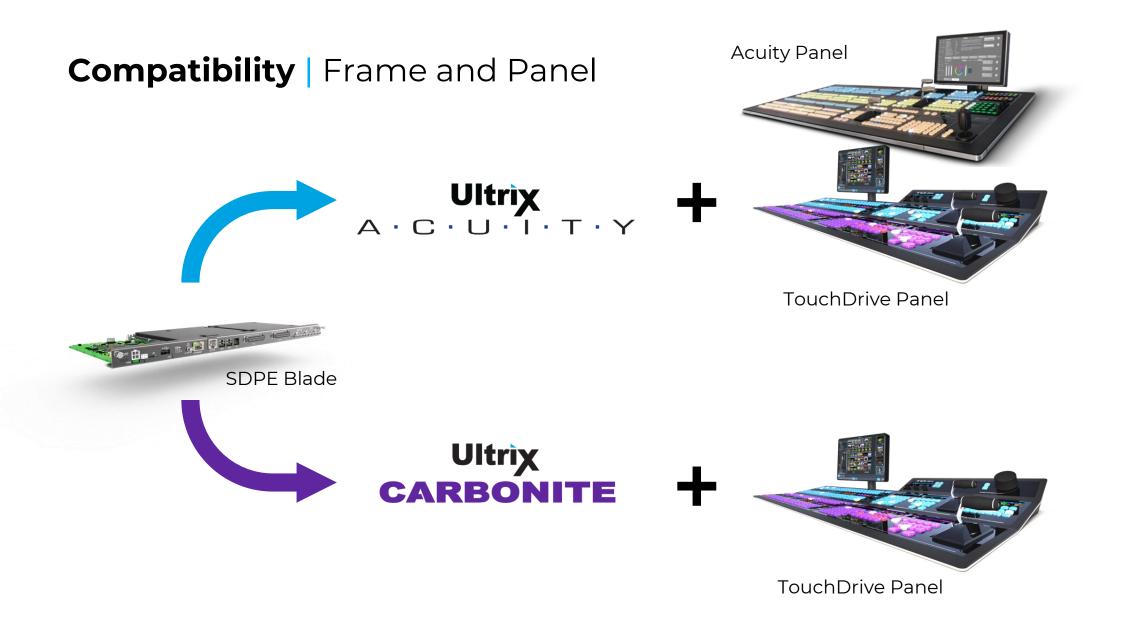
#### • Feature rich

- Integrated audio metering
- Border, Tally lamps, and UMD
- Layout templates for quick configuration
- Custom layouts supported

#### Simple control and configuration

- Configure/update a single or multiple multi-viewers across many frames quickly using DashBoard
- Recall Layouts and switch MV PIP's via HW or SW control panels
- Up to 49 MV's in 12RU frame
- Up to 27 MV's in 5RU frame
- Up to 12 MV's in 2RU frame
- Up to 6 MV's in 1RU frame
- 100 PIP's per MV output (2700 total PiP's)-There is not another system in the world with that flexibility







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#### **Ultrix Acuity** | ME Production power

- 12G Internal Architecture
  - 1080p to UHD Conversion per ME Bus
- 6 BKGD Buses ( Split ME + U1/U2)
- 6 Full Function Keyers per ME
  - Including Ross First, 2 Box one Keyer
- 6 UHD DVE per ME or 14 HD/3G DVE
- 4 Video + Alpha Media Stores per ME
  - 2 Channels Include Audio (MS1&2)
  - 8GB Ram Cache





#### **Ultrix Acuity** | ME Production power

#### Acuity MultiFeed / SplitME

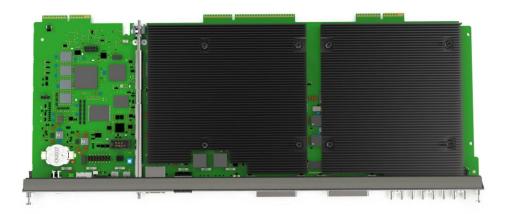
- 4 Definable PGM Outputs
- 2 Definable PV Outputs
- Split A/B with 2 Additional Utility Buses

#### Bus Based Switching

 18 ME Buses, 6 Background bus with 12 Keyer Buses for 6 Video and 6 Alpha Channels

#### • ME Outputs = Ultrix Sources

 18 ME Ouptus, 4 PGM, 2 PV, 8 MediaStore (4V+4A) and 4 User Outputs Direct Entry to Ultrix





#### Ultrix Acuity | Familiarity

#### • Operationally:

- It's an Acuity
- It's an Ultrix
- Acuity Direct access to all "Logical" Inputs
- Ultrix Direct access to Acuity Internal Source and ME Outs (4ME = 72 Re-Entry)
- Shared Concurrent Access to the "Virtual" Aux Buses
- Tally and UMD in the Ultrix MVs
- OverDrive Compatible:
  - Massive Internal Audio Mixer! Perfect For Automation Control!

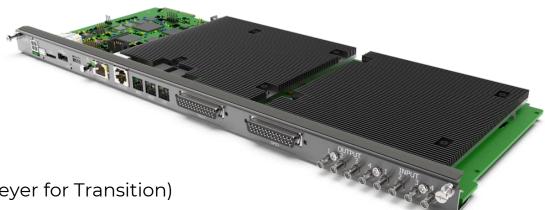




#### **Ultrix Carbonite** | What is it?

#### • Each SDPE blade:

- Independent Carbonite switcher
- 2 Full ME (HD/3G/UHD)
- 4 miniMEs (HD/3G), 2 miniMEs (UHD)
- 6 Full Function Keyers per ME (+ 7th Keyer for Transition)
- 2 Full Function Keyers per miniME
- 2D DVE: 12 (HD/3G), 6 (UHD)
- 4 Video + Alpha Media Stores
  - 2 Channels include Audio (MS1&2)
  - 8GB RAM Cache
- USB Clip Player (HD)
- Input Processing
  - HD/3G: FSFC, Proc Amp & Colour Correction All Inputs
  - UHD: 4x FSFC, 4x Proc Amp & Colour Correction Independently Assignable





# GRAPHITE Cloud Production Center



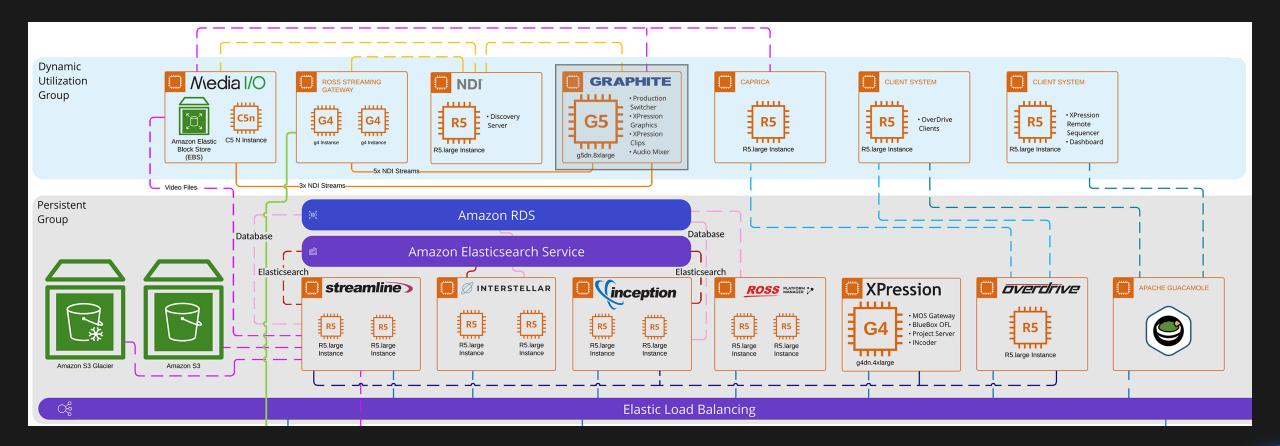
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#### **OUR CLOUD SOLUTION**

<b>GRAPH</b> Production Sv				<b>DVERCIFIVE</b> omated Production Control
		eamline		
Newsroo	em Production	n Asset Management	Remote Contribution	on Multiviewer
<b>ROSS</b> Developed Technologies	ηηηή softGear	caprica	ROS	
	Ground to Cloud	Device Contro	l Enterpri	ise Services
Integrated Partner Supplied Technol	logies	NDI Discovery	Virtual D	esktop Streaming
GRA		Copyright Ross Viaeo Cocontridien	tial	<b>Reces</b> Living Live

#### Cloud Live Production solution

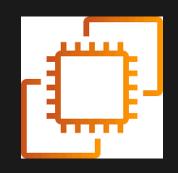


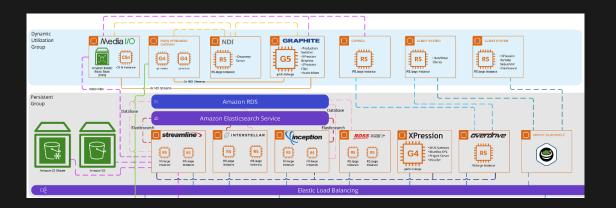


GRAPHITE

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## **Cloud Live Production solution**





- Full suite of live production creation tools in AWS
- Software Virtualized Carbonite Production Switcher
- Software Virtualized RAVE Audio Mixer
- XPression Graphics and Clips
- RPM Software Licensing
- G5.8xLarge





## Familiar Switcher operation

- Carbonite Control
- DashBoard SoftPanel
- DashBoard ViewControl
- TouchDrive Control Surfaces









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#### **Xpression Graphics and Clips**



XPression UI Choices

- Standard Studio UI
- DashBoard Integration







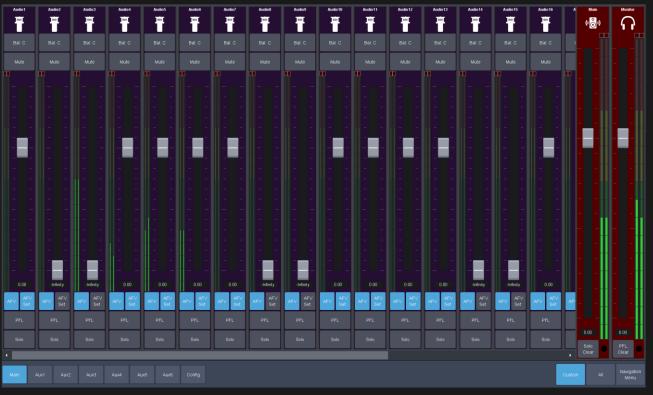
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## **RAVE** Audio

#### Mix the Audio from Anywhere

• DashBoard Interfaces







#### Available Models at launch

Graphite CPC Editions

- Graphite CPC 8
- Graphite CPC 12
- Graphite CPC 18

XPression Add-Ons

- Graphite CPC Studio SCE
- Graphite CPC Studio Dual
- Graphite CPC Studio Flex

• All XPression Workflow Tools supported using standard order codes





#### Graphite cpc 8 includes



- 3 ME Carbonite Switcher
- 6 Keyers per ME (No DVE Limits)
- <u>8</u> Inputs (New Source Router!)
- <u>2</u> Outputs PGM and MV
- 1 MV Head
- <u>8</u> Audio Faders (Mono or Stereo)
- Main Mix, Monitor + <u>2</u> Aux Mix
- XPression Prime Graphics
- XPression Clip Player





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### Graphite cpc 12 includes

- 3 ME Carbonite Switcher
- 6 Keyers per ME (No DVE Limits)
- <u>12</u> Inputs (New Source Router!)
- <u>2</u> Outputs PGM and MV
- 1 MV Head
- <u>12</u> Audio Faders (Mono or Stereo)
- Main Mix, Monitor + <u>4</u> Aux Mix
- XPression Prime Graphics
- XPression Clip Player

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input4	4	Large	Medium	4	4A Shaped			FS-MAIN (CLIP4)		none					
Input5 (	5	Large	Medium	5	5A Shaped			FS-MAIN (CLIP5)		none					
Input6 (		Large	Medium	6	6A Shaped			FS-MAIN (CLIP6)		none					
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Input8 (		Large	Medium	8	8A Shaped			DESKTOP-4RU8L43 (GPPC2)		none					
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Source	Internal														
System	Inputs	Outputs		Multi Viewer						Navig: Mer					



#### GRAPHITE

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#### Graphite cpc 18 includes



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	Output 2	MV1	Monitor		DVS Transmit 11.12 (Dante Virtual Soundcard) Main 0 Remove	
	Output 3	AUX1:BK	Main			
	Output 4	вк	Main			
System	inputs Out	outs On All	. Muti Vieder			Navigation Menu

- 3 ME Carbonite Switcher
- 6 Keyers per ME (No DVE Limits)
- <u>18</u> Inputs (New Source Router!)
- $\underline{4}$  Outputs PGM, MV +  $\underline{2}$  Aux
- 1 MV Head
- <u>18</u> Audio Faders (Mono or Stereo)
- Main Mix, Monitor + <u>6</u> Aux Mix
- XPression Prime Graphics
- XPression Clip Player





## Graphite cpc Inputs

- Each Model Includes a total number of simultaneous Inputs
- These Include the selections of the Local XPression Graphics and Clip Channels.

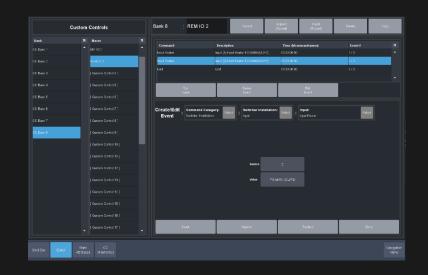
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Input 10		Large	Med											
Input 11			Med		Shaped						-			
Input 12		Medium	Medium	0	12A Shaped		none	on	n	ione		none		
Input 13		Small	Medium	₽	CLP 1A Shaped	A	MP_0.2 S1-1	Off	5:	Clip 1		CLPS		
Input 14	CLP 2	Small	Medium	₽	CLP 2A Shaped	A		011						
Input 15	Me Scn1		Medium	TME	Me Scn1A Shaped	XPr		Off						
Input 16	Me Scn2	Medium	Medium	2 ME	Me Scn2A Shaped	XPr		Off	4: M	leScn 2	NIA			
Input 17		Medium	Medium	çG	CG 1A Shaped	XPr		011						
Input 18		Medium	Medium	200	CG 2A Shaped	XPr		оп						
Source	Internal								Source Co	nfiguration				
Source System	Internal		On A	Rout 1 1	Text	Carbonite	TouchDrive Icon	1A	Device	151	input Reuter		Sync	Panel Follow
			On A	Input 1 1 Input 2 2	Text	Large	Medium 🚽	1A Shaped			Input Reuter FS-MAIN (CLB		Sync Normal	none
			On A		Text		Medium P	1A Shaped	Device	151				
			On A	Input2 2	Text	Large Large	Medum P	1A Shaped	Device	ाध	FS-MAIN (CLE	P1)	Normal	none
			On A	Imput2 2 Imput3 3	Text	Large Large Large	Medum Input Ro Med Internal Med Internal	IA Shaped nuter ND/00 DESKTOP-4RUBL43 (1	Device none 3PPC1)	ISL Off DESKTOP	FS-MAIN (CLR 4RUBL43 (GPPC2)	P1)	Normal	none ×
			On A	input2 2 Input3 3 Input4 4	Text	Large Large Large Large	Medum Input Ro Med Internal Med Internal	1A shaped ND/0 ND/0 ND/0 ND/0 ND/0 ND/0 ND/0 ND/0	Device none sPPC1) 3PPC4)	TSL OT DESKTOP-IRUBLA	FS-MAIN (CLR ARUBLA3 (GPPC2) 3 (WMDIA Guadro P2200 1)	P1)	Normal ESKTOP-4RU8L43 FS-MAIN (CLI	none X 3 (GPPC3) JP1)
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			On A	Imput2 2 Imput3 3 Imput4 4 Imput5 5 Imput6 6 Imput7 7 Imput8 8	Test	Large Large Large Large Large Large Large	Medium input Ro Med internal Med 0 Med 0 Med 0 Med 0	1A Shaped ND10 ND10 ND10 ND10 ND10 ND10 ND10 ND10	Beete none 3PPC1) 3PPC4) 0	ISL OT DESKTOP-IRUSU DESKTOP-IRUSU FS-IMAIN (CUP3	FS-MAIN (CLR ARUBLAS (GPPC2) 3 (INVIDIA Guadro P2200 1) TAIN (CLP3)	P1) D	Normal IESKTOP-4RUBLAS FS-IMAIN (CLI FS-IMAIN (CLI	none X 3 (GPPC3) JP1) JP4) replice 630 1)
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 Example: CPC 8 has 8 Inputs and using the Source Input Router selections can be made from Local or Network Sources. Utilizing 2 inputs for Graphic and Clip channels leaves 6 Inputs to select from the network!

## Graphite cpc Input Router

						Source Cor	figuration						
	Text	Carbonite	TouchDrive	lcon	Alpha	Device	TSL	Input Router	_	Sync	Panel Follow		
input1		Large	Medium	1	1A Shaped	none	Off	FS-MAIN (CLIP1	)	Normal	none		
Input2	2	Large	Med In	put Routei	r		_				×		
Input3 :		Large	Med	nternal	NDI®								
Input4	4	Large	Med		TOP-4RU8L43 (GF	0001		IRU8L43 (GPPC2)		DESKTOP-4RU8L43	(CDDC3)		
input5	5	Large	Med	_	TOP-4RU8L43 (GF			(NVIDIA Quadro P2200 1)					
Input6	6	Large	Med			-P'04)		. ,		FS-MAIN (CLIP1)			
input7		Large	Med		FS-MAIN (CLIP2)		FS-MAIN (CLIP3) FS-MAIN (CLIP4)						
input8	8	Large	Med		FS-MAIN (CLIP5)		FS-M	AIN (CLIP6)		FS-MAIN (Intel UHD Graphics 630 1)			
Input9				FS-MAIN	(Intel UHD Graphic	cs 630 2)	FS-MAIN (NVIDI/	A GeForce RTX 2080 1)		FS-MAIN (NVIDIA GeForce RTX 2080 2)			
		Large	Med	FS-MAIN (I	NVIDIA GeForce R	TX 2080 3)		RE (Output 2)	TR32CORE (PGM)				
input10		Large	Med	TR32CO	RE (Remote Conne	ection 1)							
input11		Medium	Med	,	Chanad								



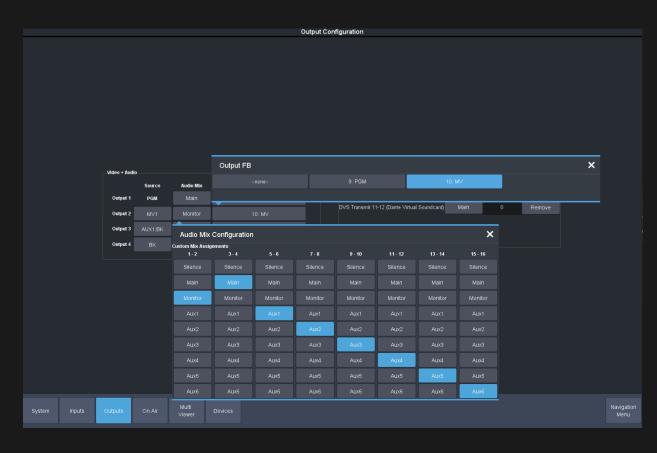
- Input Assignments are stored with the Show Files
- Input Router is independent of the Memories and Custom Controls.
- Dynamically Change Input Router through the Production.
- Build Custom Controls to change Input Router Assignments.





#### Graphite cpc Outputs

- Output 1 is Always PGM. This is can be assigned to any "framebuffer" that has been configured. System auto configures NDI Framebuffers Currently
- Outputs 2-4 are selectable just like a Carbonite but require Output Mapping to the desired Framebuffer
- Audio Channels are mapped from the Available Audio Mixer Channels independently per Output





## RAVE Audio fader configuration

F	ader Con	ıfig						Mixer Config					
		er Source	Label Audio1	Audio Source 1-2	Trans Type AFV Fade	AFV Trigger 1		Main	Aux1	Aux2			
Audio1 Source Audio Input		=						Aux3 ,	Aux4	Aux5			
1													
5													
			'S Receive 13-14										
1		3DI23	Audio13	1-2	AFV Fade	CLP 2		Audio10	Ŀ	-			
"		_	Audio14	1-2	AFV Fade	Me Scn1		Audio11		-			
1			Audio15	1-2	AFV Fade	Me Scn2		Audio12					
			Audio17	1-2	AFV Fade	CG 1		Audio13					
			Audio18	1-2	AFV Fade	CG 2		Audio14					
		_	Audio19	1-2	AFV Fade	NoSrc		Audio15					
		Recei		1-2	AFV Fade	NoSrc		Audio16					
	1 Line	_	Audio21	1-2	AFV Fade	NoSrc		Audio17		-	_		
	2 Micr		Audio22	1-2	AFV Fade	NoSrc		Audio18 Down		Up			
			Aux6 Conf	ig									Navig Me

## Faders can be routed any audio channel from:

- Video/Audio Inputs Local or Network Video Sources carry embedded audio. Select the Source and then the Channel either Mono or Stereo Pairs.
- Windows Audio Devices are also selectable. Dante Virtual Sound Cards, LAWO AES67 Virtual Sound Cards, NDI Audio Source and any other device that shows up is available!



## Audio Only Destinations

- In addition to "embedded" Audio Output. Users can configure Audio Only Destinations
- Audio Only Destinations are selected from the Available Windows Audio Devices.
- Dante Virtual Sound Cards, LAWO AES67, NDI Audio and Dedicated Windows Audio Devices.
- Each can have individual Mix Selections and Delay assignments.

	Output Configuration													
Playback Device														
DVS Transmit 9-10 (Da	nte ∨irtual So	iundcard)	2	7G2G4 (NVIDIA High Definition Audio)	D∨S Transmit 1	3-14 (Dante Virtual Soundcard)	DVS Transmit 1-2 (Dante Virtual So							
Speakers (Blackmagic Dee			DVS	Transmit 15-16 (Dante Virtual Soundcard)	D∨S Transmit	7-8 (Dante ∨irtual Soundcard)	DVS Transmit 11-12 (Dante Virtual So							
		12 (5) Audio)	Speake											
			LG											
			Speaker		Speakers (2- Black									
		Source	Audio Mix	Framebuffer	Audio Only Playt	DVS Transmit 9-10 (Dante ∨irtu	ual Soundcard) Main							
	Output 1 Output 2	PGM	Main Monitor	9: PGM 10: MV	DVS Transmit 11-12			Save						
	Output 2	AUX1:BK	Main	none										
	Output 4	вк	Main	none		New Playback Device								
System Inputs Out	puts O	On Air Vie	ulti Dev					Navigati Menu						





## Xpression Clip channel included

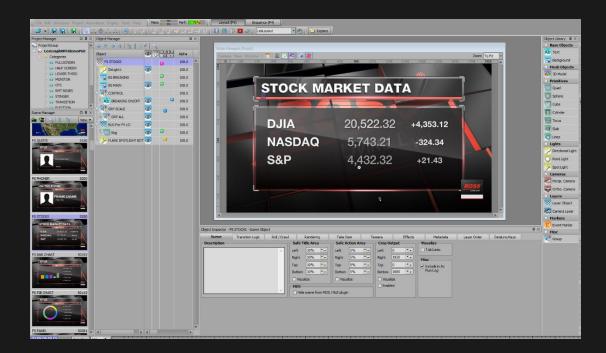
- XPression Clip single channel included.
- Only Clip/Server integration with true Preview and "In channel" Transitions.
- Manual quick cue with "Auto Take" via the Preview Window
- Sequencer based Playlists. Multiple Playlists via Groups!
- Add MOS for Newsroom integration of Graphics and clips







### Xpression Prime CG Included



#### Full XPression Motion Graphics Prime Edition:

- Available upgrades to Studio SCE, Studio Dual and Flex Editions
- Add Dataling
- Add Project Server
- Add MOS Workflow
- No other cloud production system offers a fully interwoven 3D Graphics Platform inside their Production Solution!



#### The switcher is the 3d render engine...





## Scene based workflow enabled

The Majority of the "LOOK" is decided and designed in the Creative Department

Many of our customers are already implementing centralized graphics teams that build the entire project and then deploy

The Missing piece has always been that a TD is required to build switcher effects / memories to integrate the graphics.

The TD is not deciding how this will look or "work" but rather they are integrating the switcher and compositing into the design vision delivered to them







#### Switch effects are graphics effects



From the scene director users have the full capability of defining the graphics look and the source assignments!

In a MOS driven workflow opening the template plugin to now select sources while editing graphics

The sequencer is now able to power the show. Build custom controls to drive the sequencer which in turn drives the production switcher and effects systems!





#### Me or scene .... It's not one or the other



The Cloud Production Center was not designed to force users and operators into a new paradigm

We have kept the Traditional ME operation and configuration to empower users to transition comfortably onto a platform that can offer new capabilities

If Scene based creation is not desired users can build their "ME Effects" in the same way they would on a hardware based system.





# GRAPHITE Cloud Production Center



CSPRYFight Ross Video Coefidentiantian



## Questions



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