





S SMD 989 · DVB-S/S2 Satellite Modulator



S SDI2X · Baseband to Uncompressed IP Turnaround



S MRD 7000 · Multichannel Multiformat Receiver Decoder
MRD 6000 · UHD Professional Receiver Decoder
MRD 5800 · Advanced Modular Decoder
MRD 4400 · Modular Receiver Decoder
MRD 2600 · Modular Receiver



W UMH160R · SD/HD Receiver/Decoder
W SMP100 · Streaming Media Platform
W DMP900 · Digital Media Platform



W OMP150 · IPTV System



MEDIA LINKS®
Media Defined Networking®





+5V ~ +18V

ez-SHV+ Scaler

AUDIO OUT

1080i 50

1080i 59.94

SDI OUT

HDMI OUT

SDI IN

SHORT

LUMANTEK

MODE



LUMANTEK

ez LiveSurface



V54



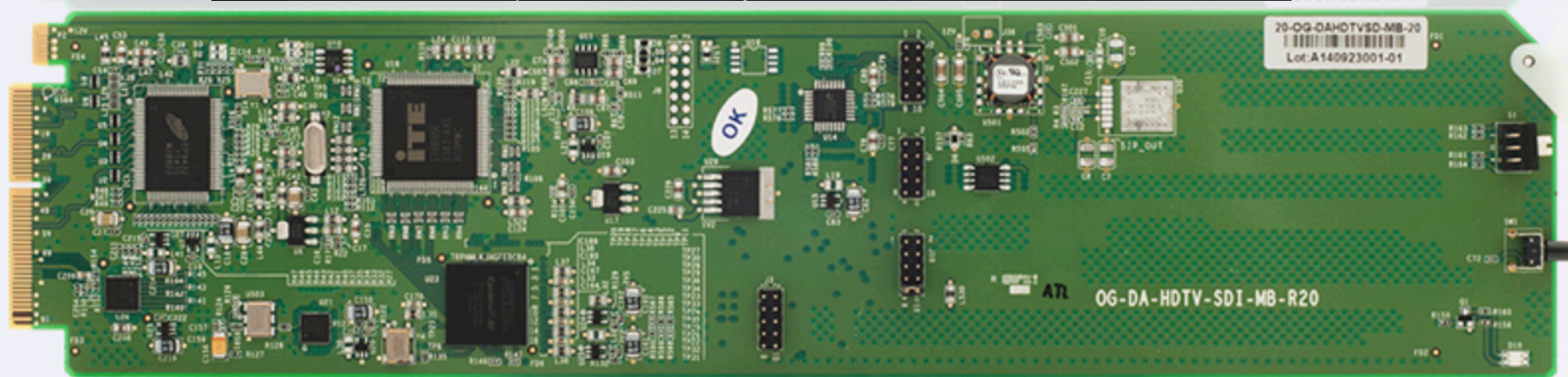
- + (plus)
- PIP
- LOGO 1
- LOGO 2
- Luma/Chroma
- Audio
- System
- Menu
- (minus)
- SDI
- PGM a
- 1 (red)
- 2
- 3
- 4
- 5
- 6
- 7
- FTB
- Wipe
- Mix (blue)
- 1 (green)
- 2
- 3 (green)
- 4
- 5
- 6
- 7
- TAKE
- Cut
- OK
- Refresh





TAHOMA UE Multiviewers HDMI 2.0 4K/UHD Multiviewers

4 and 8 Input 4K/UHD HDMI
Multiviewer with/without KVM options





8K HEVC encoding @ 65 Mbps

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streamline

Unified Sports & Live Event Solutions
ESPORTS

XPression Sports

Live Production Solutions
CARBONITE Ultra

News Production Solution
overdrive inception

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PTP SLAVE / MASTER
PTP LOCK
NET1 ACTIVITY

MADI LOCK

TALLY / GPIO

MADI



IGGY - MADI

ROSS

Ref Clk OUT
IN
75Ω
HiZ

POWER
+15V 4A
+ -



CONTROL

PoE NET1

NET 2

IV Layouts

slot1 head1

slot1 head2

slot1 head3

slot2 head1

slot2 head2

slot2 head3



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

100

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

LAYOUT-25

slot1.head1

MC1

Basic Tree View

- Router Utilities
 - RCP-QE18
 - RCP-QE36
 - RCP-QE36
 - GEAR OGX RACK 1
 - GEAR OGX RACK 2
 - IBC-News3
 - IBC-News4
 - INTRA-HALFRACK
 - MIB-652
 - Ross NEWT
 - Ross NEWT
 - Ross NEWT
 - Ross NEWT
- UltracoreBCS
 - UltracoreBCS-B9DFE2
 - UltracoreBCS@10.20.33.90
 - System Status
 - Database (IBC2019r5)
 - Database Builder
 - Connections
 - Third Party Matrices
 - Port Labels
 - Levels
 - Destinations
 - Search
 - Cat/Index Categories
 - Group Categories
 - Legacy Categories
 - Salvos
 - Panels
 - System Monitor
 - Destination Follow
 - Devices
 - Controllers + Matrices
 - UltracoreBCS
 - Panels
 - Soft Panels
 - Default Panel [1]
 - MAD01 Matrix [2]
 - Video Matrix [3]
 - Full [4]
 - UT2 PB [5]
 - UT4 PB [7]
 - UT2 MV [8]
 - Diagram [9]
 - GM1 [6]
 - GM2 [10]
 - test [11]

ID	Tally	Name	Description	VID	AUD 1	AUD 2
MADI54	2064	MADI54	MADI54		Ultrix-5ru slot3 AUXB-in[1] audio ch54	Ultrix-5ru slot3 AUXB-in[1] audio c
MADI55	2065	MADI55	MADI55		Ultrix-5ru slot3 AUXB-in[1] audio ch55	Ultrix-5ru slot3 AUXB-in[1] audio c
MADI56	2066	MADI56	MADI56		Ultrix-5ru slot3 AUXB-in[1] audio ch56	Ultrix-5ru slot3 AUXB-in[1] audio c
MADI57	2067	MADI57	MADI57		Ultrix-5ru slot3 AUXB-in[1] audio ch57	Ultrix-5ru slot3 AUXB-in[1] audio c
MADI58	2068	MADI58	MADI58		Ultrix-5ru slot3 AUXB-in[1] audio ch58	Ultrix-5ru slot3 AUXB-in[1] audio c
MADI59	2069	MADI59	MADI59		Ultrix-5ru slot3 AUXB-in[1] audio ch59	Ultrix-5ru slot3 AUXB-in[1] audio c
MADI60	2070	MADI60	MADI60		Ultrix-5ru slot3 AUXB-in[1] audio ch60	Ultrix-5ru slot3 AUXB-in[1] audio c
MADI61	2071	MADI61	MADI61		Ultrix-5ru slot3 AUXB-in[1] audio ch61	Ultrix-5ru slot3 AUXB-in[1] audio c
MADI62	2072	MADI62	MADI62		Ultrix-5ru slot3 AUXB-in[1] audio ch62	Ultrix-5ru slot3 AUXB-in[1] audio c
MADI63	2073	MADI63	MADI63		Ultrix-5ru slot3 AUXB-in[1] audio ch63	Ultrix-5ru slot3 AUXB-in[1] audio c
MADI64	2074	MADI64	MADI64		Ultrix-5ru slot3 AUXB-in[1] audio ch64	Ultrix-5ru slot3 AUXB-in[1] audio c
DISC	2075	DISC		Ultrix-5ru slot0.disconnect[1] adi.ch1	Ultrix-5ru slot0.disconnect[1] audio.ch1	Ultrix-5ru slot0.disconnect[1] audi
PASS	2076	PASS			Ultrix-5ru slot0.passthrough[1] audio.ch1	Ultrix-5ru slot0.passthrough[1] aud
Q1	2077	Q1		Ultrix-5ru slot0.layout.1[22] mv.ch1		
Q2	2078	Q2		Ultrix-5ru slot0.layout.2[23] mv.ch1		
Q3	2079	Q3		Ultrix-5ru slot0.layout.3[24] mv.ch1		
Q4	2080	Q4		Ultrix-5ru slot0.layout.4[25] mv.ch1		
28 clock	2081	28 clock		Ultrix-5ru slot0.layout.18-clock[16] mv.ch1		
19VU	2082	19VU		Ultrix-5ru slot0.layout.LAYOUT-19-VU-UMD[13] mv.ch1		
13clock	2083	13clock		Ultrix-5ru slot0.layout.13-clock[17] mv.ch1		
5clock	2084	5clock		Ultrix-5ru slot0.layout.5clock[20] mv.ch1		

Matrix Inputs:

- IBC-News3 slot1 in[1] ip-audio ch1
- IBC-News3 slot1 in[2] ip-audio ch1
- IBC-News3 slot1 in[1] ip-video ch1
- IBC-News3 slot1 in[2] ip-video ch1
- IBC-News4 slot1 in[1] ip-audio ch1
- IBC-News4 slot1 in[2] ip-audio ch1
- IBC-News4 slot1 in[1] ip-video ch1
- IBC-News4 slot1 in[2] ip-video ch1
- Raptor1 slot1 in[1] ip-audio ch1
- Raptor1 slot1 in[2] ip-audio ch1
- Raptor1 slot1 in[3] ip-audio ch1
- Raptor1 slot1 in[4] ip-audio ch1
- Raptor1 slot1 in[1] ip-video ch1
- Raptor1 slot1 in[2] ip-video ch1
- Raptor1 slot1 in[3] ip-video ch1
- Raptor1 slot1 in[4] ip-video ch1
- Raptor2 slot1 in[1] ip-video ch1
- Raptor2 slot1 in[2] ip-video ch1
- Ross_10-20-33-80_00 0F 9B 03 75 7F_device slot1...
- Ross_10-20-33-80_00 0F 9B 03 75 7F_device slot1...
- Ross_10-20-33-80_00 0F 9B 03 75 7F_device slot1...
- Ross_10-20-33-80_00 0F 9B 03 75 7F_device slot1...
- Ross_NEWWT slot1 in[1] ip-audio ch1
- Ross_NEWWT slot1 in[2] ip-audio ch1
- Ross_NEWWT slot1 in[1] ip-video ch1

Assign

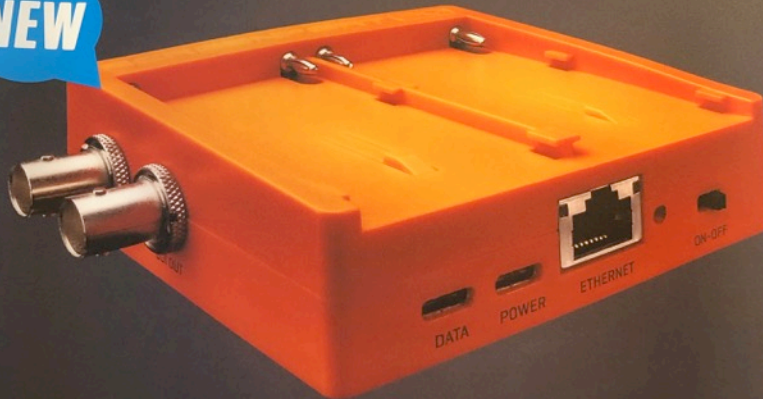
Cancel Apply



SCREENPORT SDI

Turn your iPad into
professional monitor & recorder

NEW



OVIDE © SMART

OVIDE © SMART

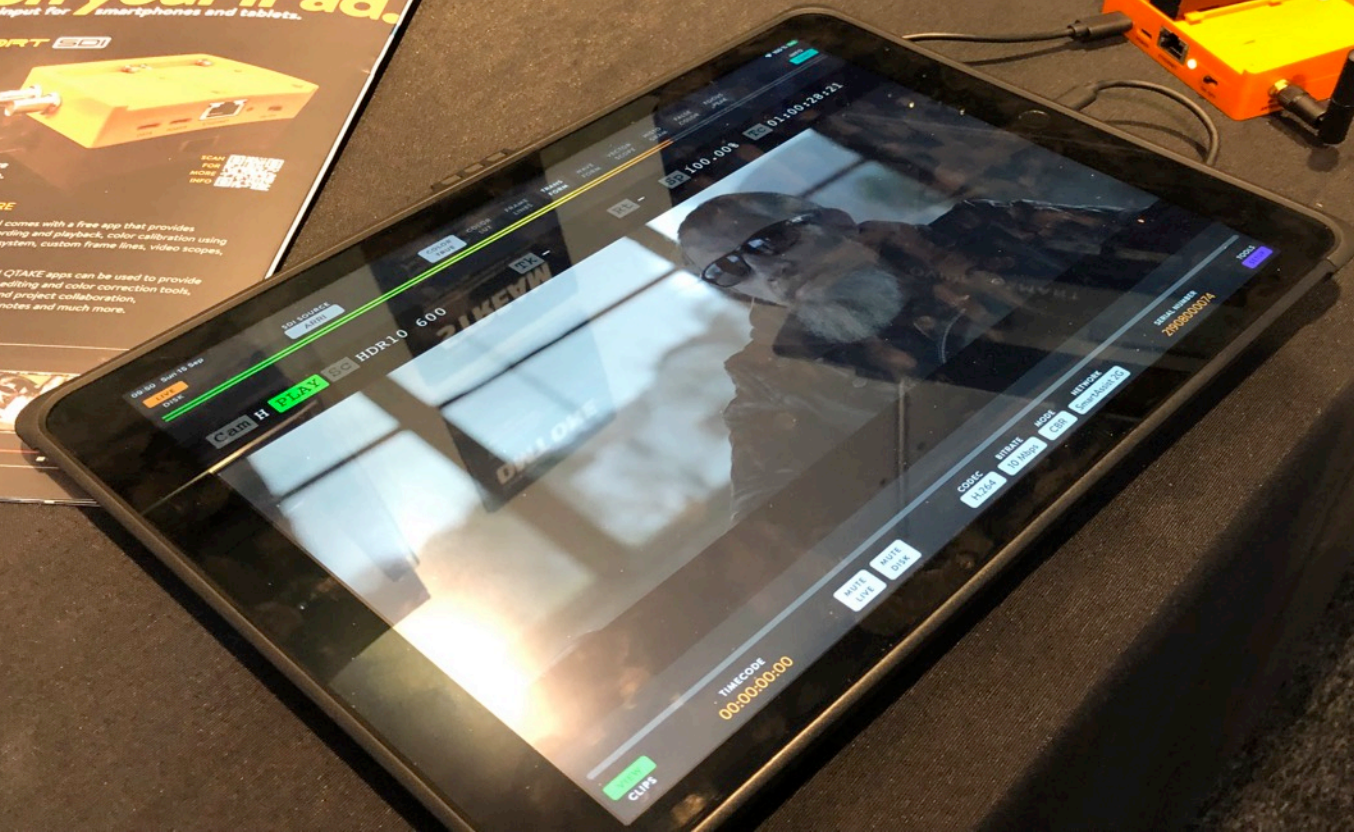
Record SDI on your iPad.

SMART SDI



SDI comes with a free app that provides recording and playback, color calibration using the system, custom frame lines, video scopes, etc.

Useful QTAKE apps can be used to provide clip, editing and color-correction tools, and project collaboration, and notes and much more.





Explore the system

THE VIDEO ASSIST
REVOLUTION
DIVIDE SMART BOX

SMART

HOW TO BRING YOUR STORY TO LIFE

International Service Facilities
Available Repair Solutions
Advanced Helpdesk Assistance
Cinema & Broadcast Industry Specialists
Global Event Support





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SERVICE VISION

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OCU-430
VFE-741D

Service Vision

Service Vision

Service Vision

Service Vision

Ikegami

... LIKE REALITY

12.000
DAMA



Ikegami

Ikegami ima9



READY FOR ULTIMATE CHALLENGES

Ikegami



Ikegami
Unleash HD

Ikegami
LHK-430
4K

Ikegami

4K



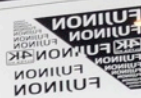
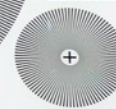
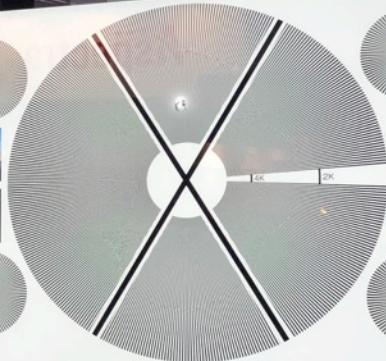
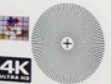
FUJINON

4K 4K 4K 4K 4K 4K 4K 4K 4K

HIGH CONTRAST
HIGH RESOLUTION
HIGH DYNAMIC RANGE



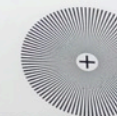
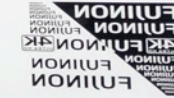
FUJINON



FUJINON



FUJINON





FUJINON

4K
ULTRA HD

FUJIFILM

UA125x8 1:1.7/8-1000

125

ZOOM	FPS
8	1.7
11	2
17	2.8
30	4
55	5.6
100	8
175	11
355	16
565	C
1000	

x1 x2
EXT. INO
MIXED ON
MEMO OFF

LOCK

Marshall
CV503



Mar



Marshall
CV503



NEW DP-V3120

Extraordinary HDR Canon



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UHD DIGISUPER 122
UHD-122 8.28 8.2-100mm 1.1-1.7

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A class leading wide-angle 15x broadcast zoom lens with exceptional 4K optical quality
15x (130mm with 2x extender)



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UHD-A.18 8.3-20mm 1:1.7

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5

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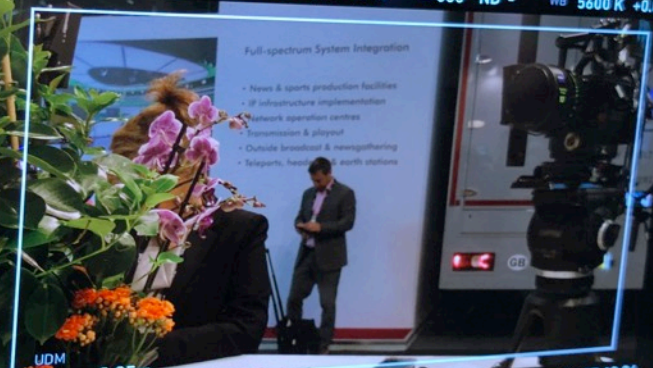


transvideo

FPS 25.000 SHUTTER 172.8 IRIS T 5.6 1/10 EI 500 ND - WB 5600 K +0.0 CC

SDI
Look

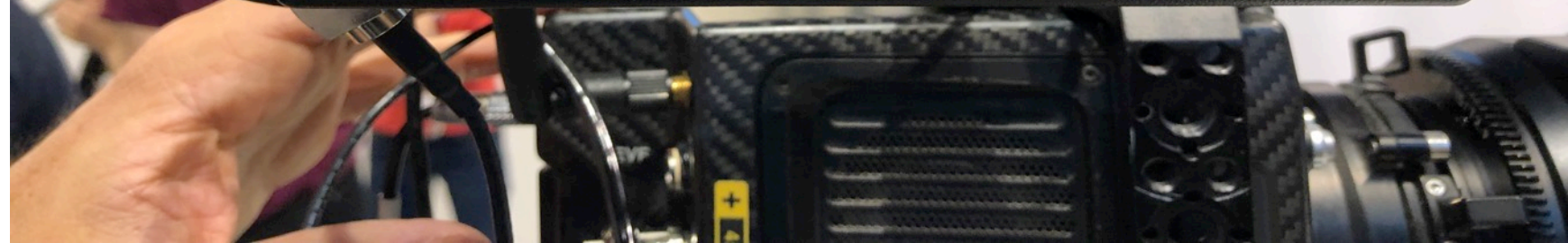
CAM
HD
LOG
S16



UDM
FOCUS 0.85m

FCL 15.0mm BAT 19.0V A009 C169 **STRY** CARD 1:06 h TC 01:37:42:06

transvideo







NEW
FEATURES

9992-ENC-4K-HEVC » 4K HEVC / AVC / MPEG2 Software Defined Broadcast Encoder with Single-Channel 4K or Quad-Channel 2K Video Paths



Imagine
COMMUNICATIONS



Imagine
COMMUNICATIONS

Live Production

Hybrid SDI/IP Routing
& Multiviewers

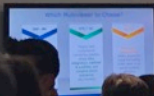
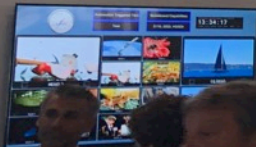
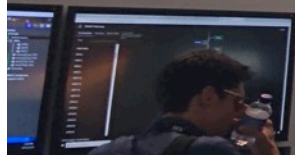
UHD & HDR Processing,
Conversion & IP Gateways

From spinning up channels
to driving down TCO

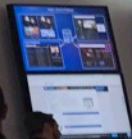
IMAGINE PUTS YOUR NEEDS FRONT AND CENTER

Servers & Automation

Pla

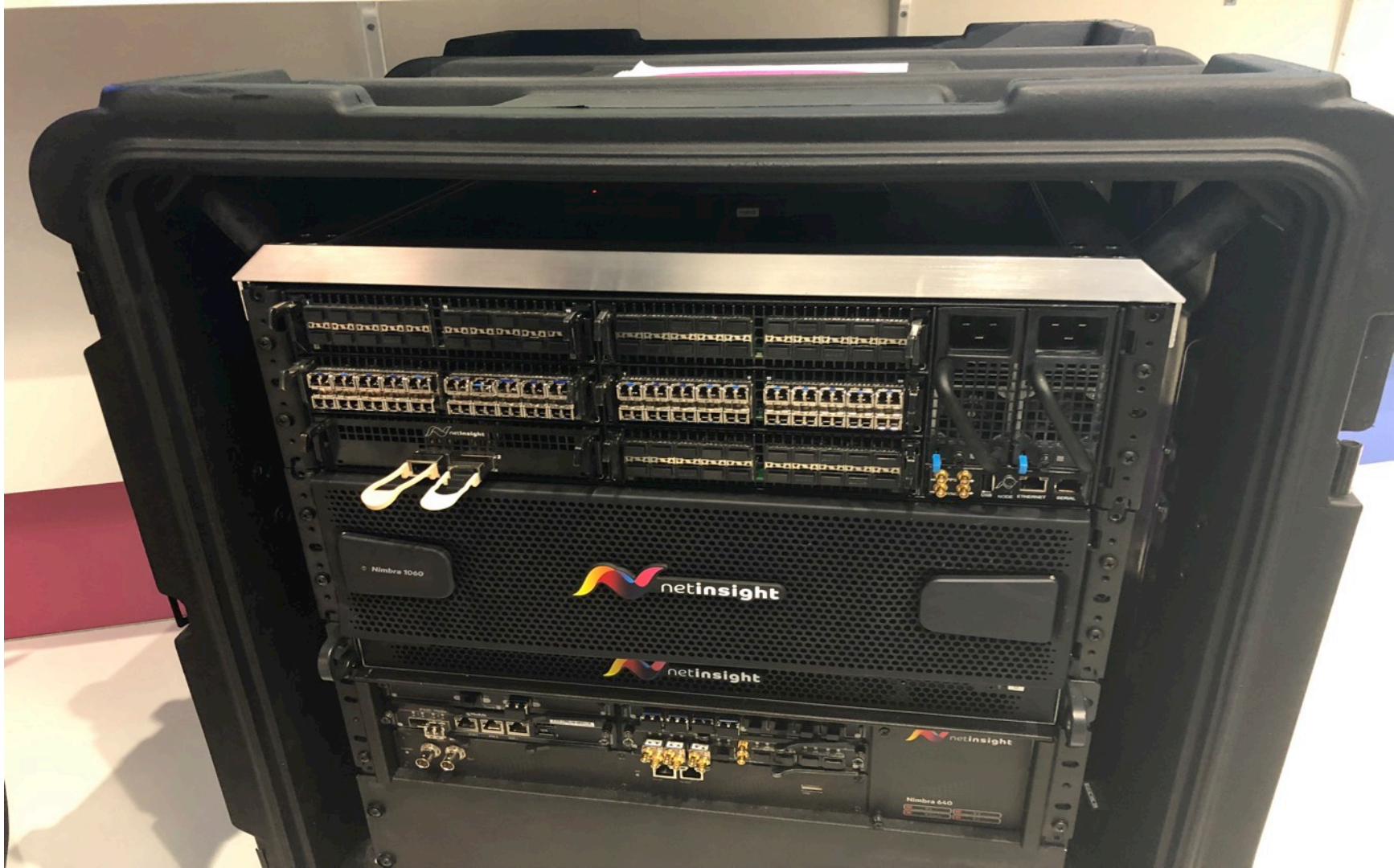


Imagine



IP SHOWCASE
IBC IP Showcase
PARTICIPANT
Room E106





Transforming Video

Transforming Video Delivery



Video Technology Leadership
All CODECs – AI Powered
High Quality at Low Bitrates



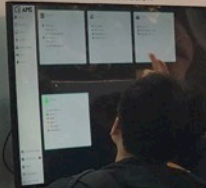
AV1 with
BROADCOM



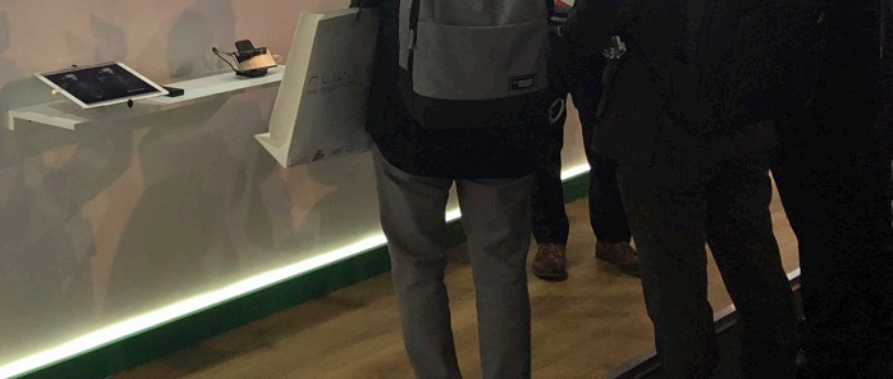
5G Enabled, UHD Everywhere
Software Future-Proof Solution
4K – HEVC/AV1 – CMAF



Virtualized Multi-Cloud Headend
On-Prem & Off-Prem Solution
Microservice Orchestration



High QoE Broadcast & OTT Delivery
Linear & VOD on Any Screen
Low Latency Streaming



HUAWEI
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**9 of the world's top 10 largest media companies rely on us.
We provide the technology to deliver the experience your customers expect.**

120 tbps
of global IP network
serving capacity

25.8 exabytes
of data delivered globally by
the CenturyLink CDN in 2018

74.4 trillion
total requests answered by
the CenturyLink CDN in 2018

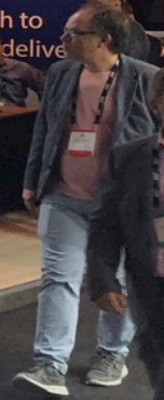
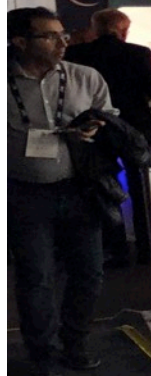
MatchBox
Lips Synced in Seconds
16 Identified TPGs in 1RU



Glass
Cameras & Mics in Syne?
iPad & iPhone App



g
nough to
delive





**DESIGNERS & MANUFACTURERS
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RACK SYSTEMS | RF COMPONENTS | CUSTOM BUILD



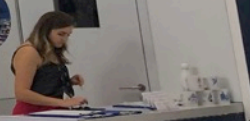
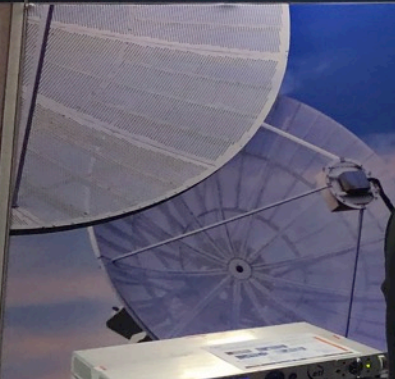
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HIGH PERFORMANCE FOR ALL MARKETS



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Ship to 112
tries globally
ave a team of
rts handling
y shipment
gh customs
shipping



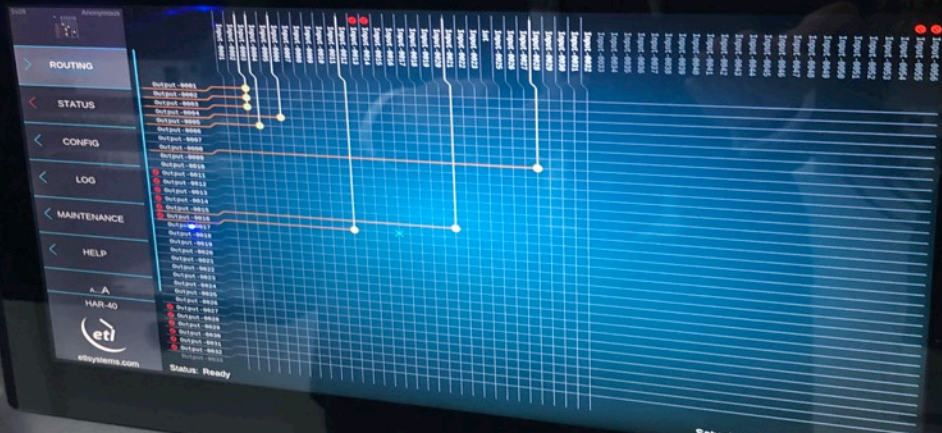
Product quality
Customer service
Global reach
Reliability
Security
Compliance
Sustainability
Innovation
Partnership





Our equip
works out c
box: that's v
of the 20
satellite op
use our sv
matrices a
produc

COM



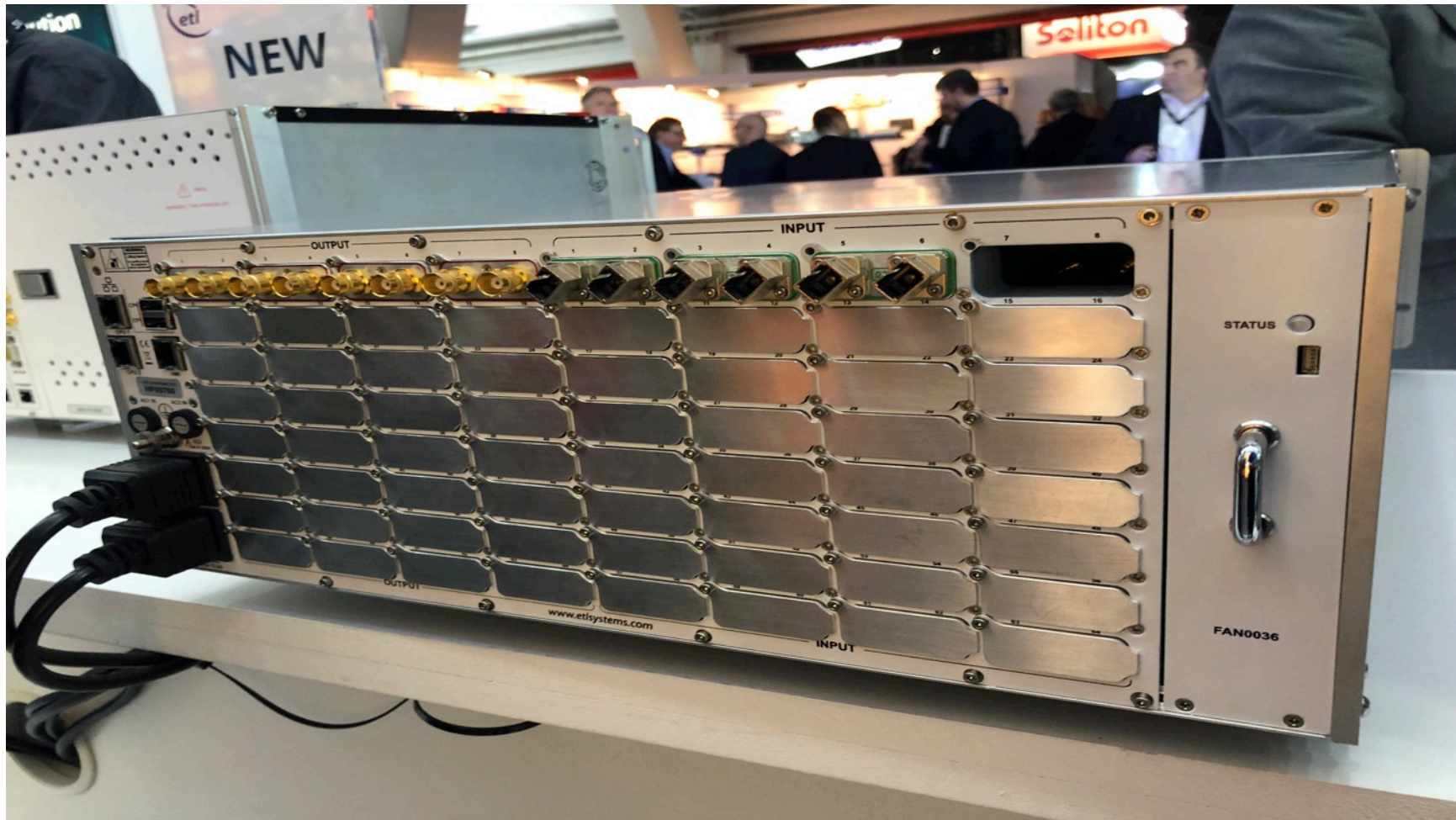
etl
HAR-60
eti
eti systems.com

Saturday, 1 January 2000 6:39:53 am



Harrier | 128 x 128 RF Matrix





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transform your production?



whatever your
port, process
or management
talk

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by PROFESSIONAL AUDIO





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VIDEO INNOVATION

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KONA 5
8K, 4K, HDR, 12G-SDI, 4x4 Video I/O
with HDMI 2.0 Monitoring



Io 4K Plus
4K-HD, HDR, SDI, 4x4 Video I/O
with HDMI 2.0 Monitoring



KONA HDMI and KONA 4
Multi-Format Support for
4K/HDR and 4K/SDI



MINI-CONVERTERS

FRAME SYNC
AND CONVERSION

ROUTING
AND CONTROL

openGear
CONVERTERS

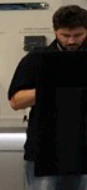
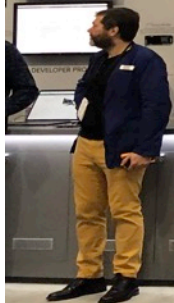
INFRASTRUCTURE
CONVERTERS

HDMI CONVERTERS

OPTICAL FIBER
CONVERTERS

SCAN CONVERTERS

SDI TO
HDMI CONV



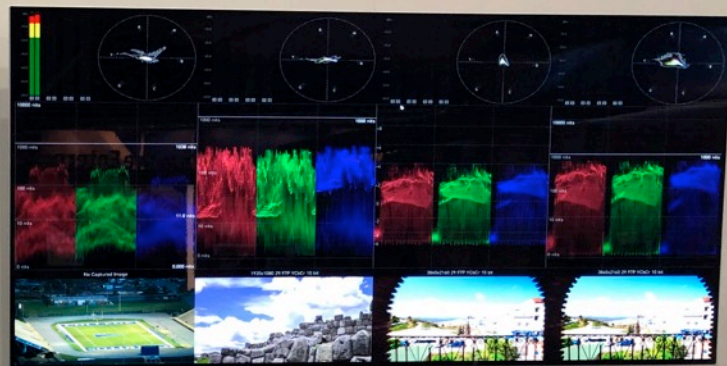


New!

HDR Image Analyzer 12G

Monitoring and Analysis for HDR/SDR
Waveform, Histogram, Vectorscope
4K/UHD/2K/HD over 12G-SDI









datavideo

HDR-1 H.264 USB RECORDER



STOP	REC	PLAY	PAUSE	SLOW
REW	FF	REPLAY	REC SET	DISK INFO

MENU	PAGE+	SNAP	F1
Left arrow	OK	Right arrow	INFO
BACK	PAGE-	DELETE	F2
			F3

USB

Multi platform stream

DVS-200 is a revolutionary streaming platform allowing the encode, transcode, record and deliver real time video to devices. DVS-200 comes as a software package or as a fully turnkey solution. The only thing you need to do is hook up your and start broadcasting.

DVS-200 enables you to encode, transcode, transfer and stream to a wide variety of devices. You can want to be presented to a multitude of devices in a multitude of ways. Multiple of outputs. DVS-200 gives you the power to send out multiple streams. Different streams for different users. Different streams for different devices. All in real time. This is the power of the same time, making it possible to be used on a wide variety of devices. DVS-200 is a revolutionary streaming platform allowing the encode, transcode, record and deliver real time video to devices. DVS-200 comes as a software package or as a fully turnkey solution. The only thing you need to do is hook up your and start broadcasting.



datavideo

DVS-200

Multi platform streaming server

HS-1600 is a revolutionary streaming server allowing the use of multiple cameras and multiple outputs. It is designed for live streaming to YouTube, Facebook, and other social media platforms. It also allows for live streaming to multiple destinations simultaneously. The server is easy to use and has a simple interface. It is a great choice for anyone looking for a multi platform streaming server.

- 1080p HD
- 4x SDI
- 4x HDMI
- 4x USB
- 4x FireWire
- 4x Ethernet
- 4x RS-485
- 4x RS-232
- 4x RS-422
- 4x RS-485
- 4x RS-232
- 4x RS-422

\$ 799,-

\$ 5.699,-

\$ 5.499,-

One studio solutions

company if you're looking for mobile live of the latest innovations are one device, that you can use for any sized for medium for other live events.

all our equipment is 100% HD ready. A small but and resolution image, hardware audio mixing built in. 100% HD ready. 100% HD ready. 100% HD ready.

\$ 4.549,-

\$ 4.999,-

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GO-1200 Studio

1080p HD

4x SDI

4x HDMI

4x USB

4x FireWire

4x Ethernet

4x RS-485

4x RS-232

4x RS-422

\$ 4.999,-

\$ 999,-

Available output

11A-170L

1080p HD

4x SDI

4x HDMI

4x USB

4x FireWire

4x Ethernet

4x RS-485

4x RS-232

4x RS-422

\$ 1.199,-

HS-650

1080p HD

4x SDI

4x HDMI

4x USB

4x FireWire

4x Ethernet

4x RS-485

4x RS-232

4x RS-422

\$ 1.199,-

HD-1

1080p HD

4x SDI

4x HDMI

4x USB

4x FireWire

4x Ethernet

4x RS-485

4x RS-232

4x RS-422

\$ 1.199,-



datavideo



dataVista

SHOWCAST

Achieve Livecast & Payroll Mode Separately in One Single Unit

4K

Multicam productions

This all-Robert and versatile 4K production process demonstrates KMU-100 generates four 1080p "out of the box" multicam. With a second 4K input, and with its scaling abilities, the KMU-100 allows you to generate two out of the four multicam, resulting in a virtual 8-camera multicam.

KMU-100 is an all-in-one multicam production and control unit. With two independent 4K channels, KMU-100 can produce the KMU-100 in real time.

The RMC-185 controller makes it easy to use the KMU-100 without any third party and custom structure and price over defined than per 4K camera.

For more information, visit our website www.dataVista.com

TLM-102

4K

SPY

TLM-102

4K

SPY SCREEN

\$1,199-

KMU-100

4K

4K MULTICAM PRODUCTION

ARMED WITH VIDEO

RMC-185

4K





ADDER
4K
IP KVM
ADDER



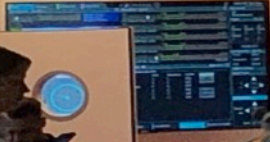
Panel 1
Panel 2
Panel 3

120-CROSS
Panel 4

Panel 5
Panel 6

Panel 7
Panel 8

M - Remote IP connectivity



video





Portable Monitoring and Recording

Blackmagic Video Assist 5" 12G HDR

Adds professional monitoring and recording to any SDI or HDMI camera in all HD, Ultra HD, 2K and 4K DCI formats! Super bright 2500nit HDR monitor supports 3D LUTs, professional scopes as well as powerful focus assist and exposure tools. Built in SD card recorder for non stop 10-bit 4:2:2 ProRes or DNx recording.

€725 **NEW**



Blackmagic Video Assist 7" 12G HDR

Adds professional monitoring and recording to any SDI or HDMI camera in all HD, Ultra HD, 2K and 4K DCI formats! Super bright 2500nit HDR monitor supports 3D LUTs, professional scopes as well as powerful focus assist and exposure tools. Dual built in SD card recorders for non stop 10-bit 4:2:2 ProRes or DNx recording.

€895 **NEW**

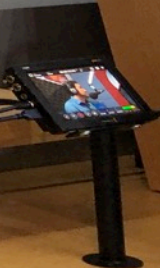


HyperDeck Disk

HyperDeck Studio Mini

Miniaturized broadcast deck for recording to all formats up to 2160p30. Features 6G-SDI, HDMI out, dual SD/UHS-II recs for non stop recording, LCD for monitoring and status, a 5.1 sync generator for multi recorder play sync and remote IT upload via Ethernet. Dual 6G-SDI outputs can be used for HD ProRes 4:4:4 files directly to separate I/O and key out.

HyperDeck Studio Mini	€695
HyperDeck Studio Pro	€1955
HyperDeck Studio 12G	€1475
HyperDeck Studio	€975





Studio Pro 4K

Production switcher with 8 talkback, DVE, Fairlight audio mixer, advanced Chroma Keyer, motion preview.

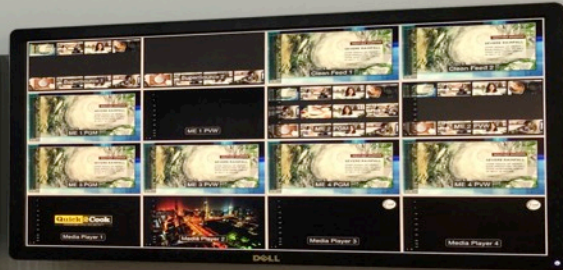
€2795
€2755

ATEM Constellation 8K

ATEM Constellation 8K is an Ultra HD live production switcher with so many features, you can combine them all to make a powerful 8K switcher! You get 4 M/Es, 40 x 12G-SDI inputs, 24 x 12G-SDI aux outputs, 4 DVEs, 4 Keyers, 4 media players, 4 multiviewers, 2 SuperSource and standards conversion on all inputs! There's even talkback and a massive 156 channel Fairlight audio mixer.

ATEM Constellation 8K
ATEM 1 M/E Advanced Panel
ATEM 2 M/E Broadcast Panel

€9359
€2755
€13815









LG

specifically designed for YouTube
business presentations via Skype. Features
inverted inputs for working with all
D, front panel control, transitions, DVE,
storage, advanced ATEM chroma keyer



Hyperdeck Extreme 8K HDR

The world's first professional 8K broadcast deck with H.265 recording, 7" touchscreen for monitoring and control, dual CFast recorders, optional internal cache, USB-C for recording to external disks, 3D LUTs and HDR support. Records in all SD, HD and Ultra HD and 8K formats up to 4320p60.

€4889

Hyperdeck Extreme Control

Add traditional broadcast deck style control to HyperDeck Extreme 8K HDR. Features a large, high quality search dial knob with electronic clutch. Works with any traditional broadcast deck. Control up to 8 decks using the standard RS-422 control protocol. Supports deck to deck editing, even between frame rates when standards converting between formats while editing.

€1279







ROHDE & SCHWARZ

PKU100-0750 · Amplifier



ROHDE & SCHWARZ SLG · SATELLITE LOAD GENERATOR

2116 9193 02

R&S *SLG*



RZ

5G Broadcast



IP Multiviewer

IP Multiviewer

A rack-mounted IP Multiviewer device with a laptop on top displaying a software interface. The interface shows a grid of video feeds and control options. The device is white and black, with a prominent front panel.

R&S[®] Tx9evo – The best even better The new transmitter generation of Rohde & Schwarz

- Highly efficient
- Easy to operate
- Futureproof

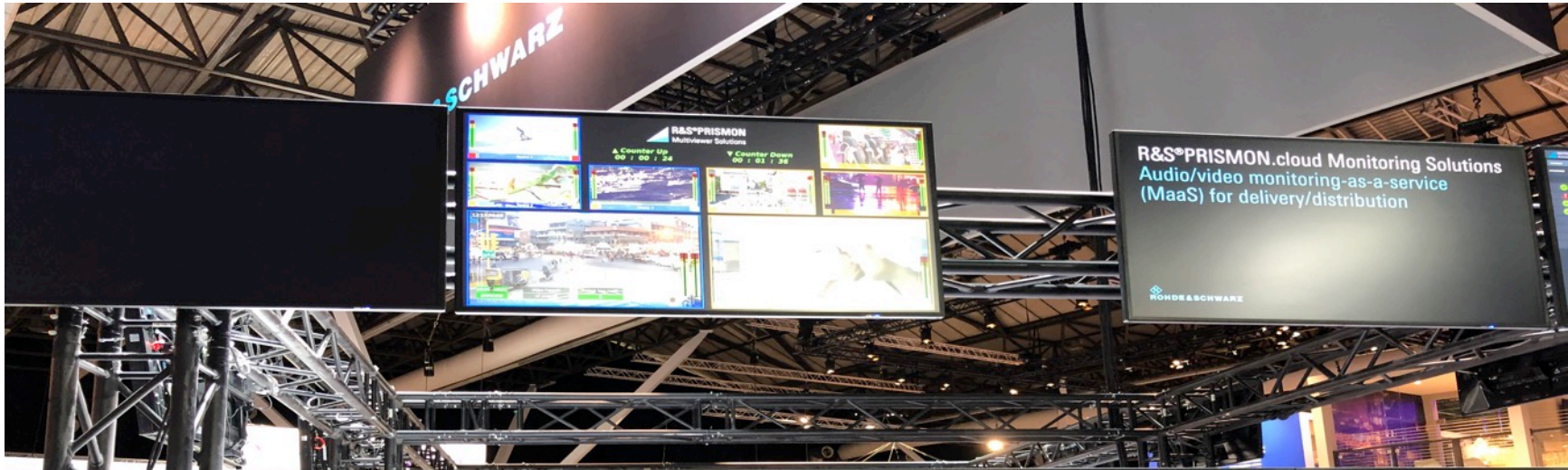
A graphic of the R&S Tx9evo transmitter, showing its internal components and a blue glow.

R&S[®] TMV9evo

R&S[®] THU9evo

A large, blue and white R&S THU9evo test equipment rack. It features multiple slots for modules, a control panel, and a display. The rack is labeled 'THU9 EVO' and 'Rohde & Schwarz'. Several people in business attire are gathered around the equipment, examining it.

Cleaning & Automation



VITEC

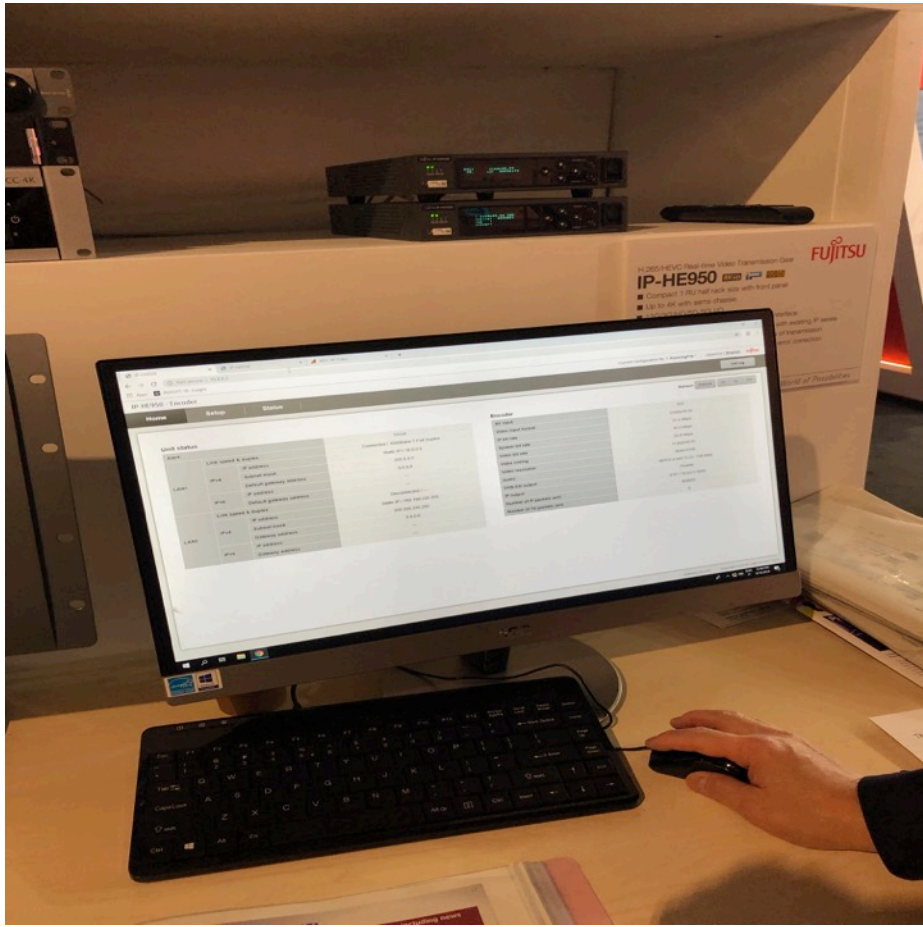
EZ TV VIDEO WALL SOLUTION



A
dobe

Primestream





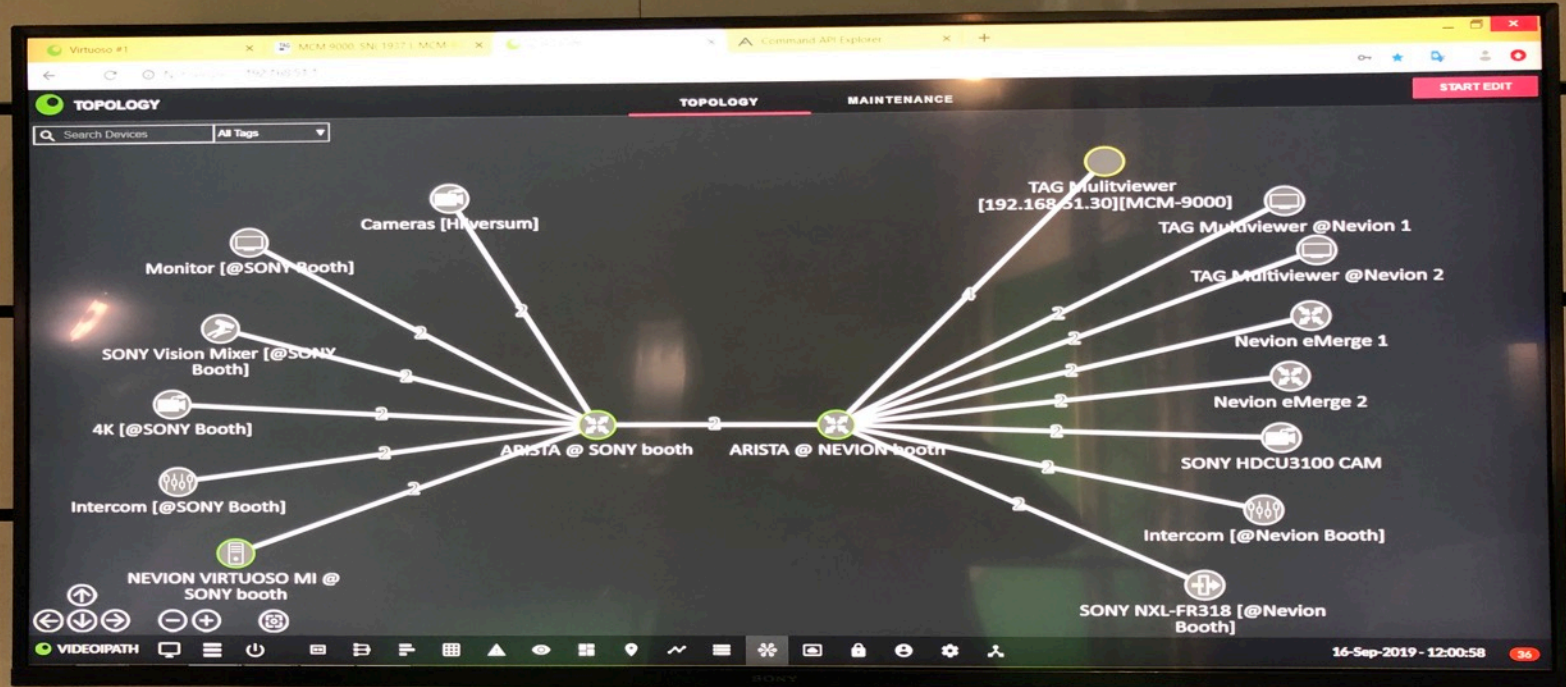
The Art of Live LIVE PRODUCTION

4K Camcorder

HXC Camera

New Triax/ Fiber System Camera





Network Orchestration
NEVION VideoiPATH

ive HDR Solution

Auto configuration by VPID on BVM-HX310

4K HDR production has various and complex combinations of SDI, colour space, and RGB range. VPID automatically identifies source information embedded in the SDI signal and performs the correct monitor setting, minimizing human error.

Quad view Display mode on BVM-HX310

Customized individual display settings for each image:

- 3D User LUT
- Electro-optical transfer function (EOTF)
- Colour space, temperature
- Contrast, brightness, and gamma
- Interface (3D-SDI, HD-SDI including Single Link/Dual Link and HDMI)
- Signal structure (RGB and YCbCr)

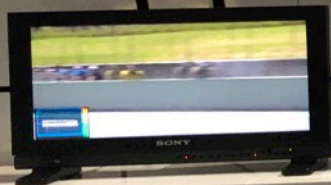


Instant HDR workflow with LMD-A Series

Simplicity and efficiency can be achieved by direct connection between Camcorder and monitor during on set shooting.



Instant HDR by Hybrid Log Gamma (HLG) and BT.2020 for cost effective HDR monitoring solution



Remote Production With New HDCE-TX30



(Stadium or Remote Studio)



(Broadcast station/Data center)

ST2110 System



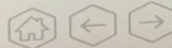
(Studio #1)



(Studio #2)



By connecting the remote studios and base station via IP, the workflow efficiency and the system flexibility are maximized. Furthermore, by utilizing orchestration system and broadcast controller system, it is possible to quickly set up devices and easy to identify faulty locations in the system.

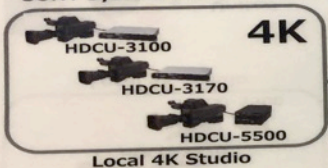


Sony x Nevia End-to-End IP Live Solution Demo @ IBC2019

Efficient Remote Production
Sony Camera x Nevia Virtuoso

Full IP Solution by Sony CCU
(ST2110/Tally/Intercom/Control)
JPEG-XS Enc/Dec by Nevia Virtuoso

SONY System Camera Booth



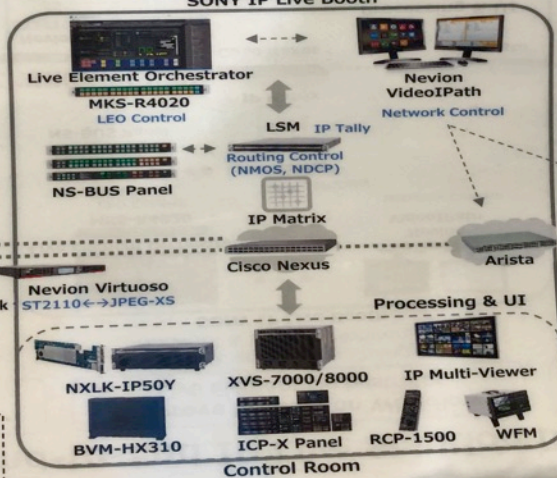
ST2110

CenturyLink

ST2110 in JPEG-XS
→
x3 JPEG-XS
x1 ST2110
←
x1 ST2110

Improve Production Workflow
Live Element Orchestrator

4K ↔ HD System Change
Network & System Monitoring
SONY IP Live Booth



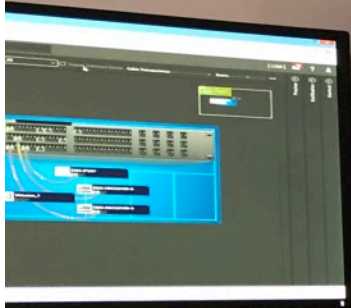
End-to-End IP Live Solution
Sony x Nevia

Total Solution: Ingest, Production, Playout
SDN Control by Nevia VideoIPath

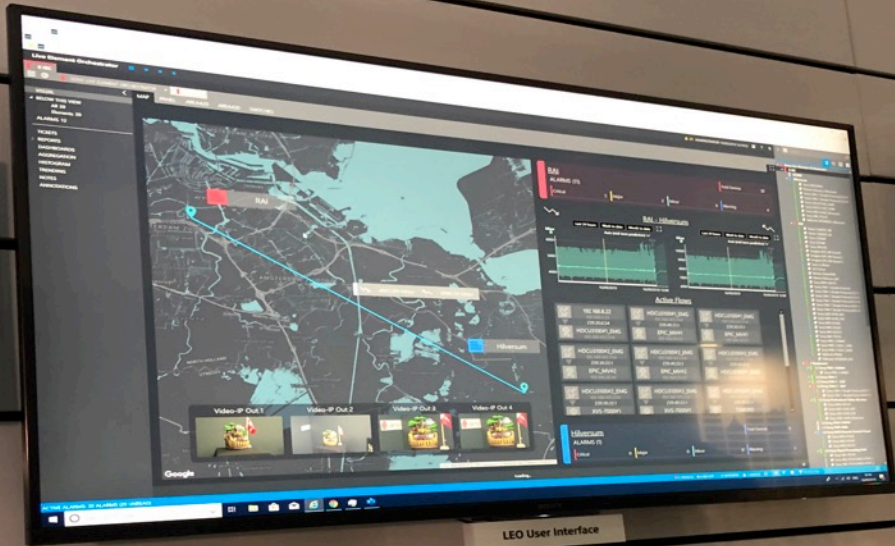


- Device Control from Live Element Orchestrator
- RCP Assignment
 - Switcher Panel Switching (XVS)
 - Monitor Input Change (HX310)
 - MV Layout Change (Imagine Communications)
 - WFM Input Change (PRISM)

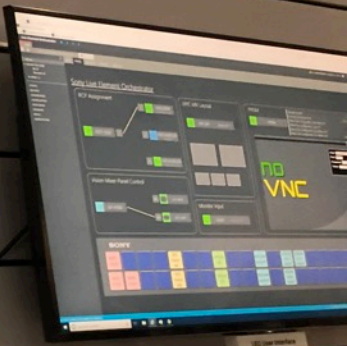
olution



Manager



LEO User Interface



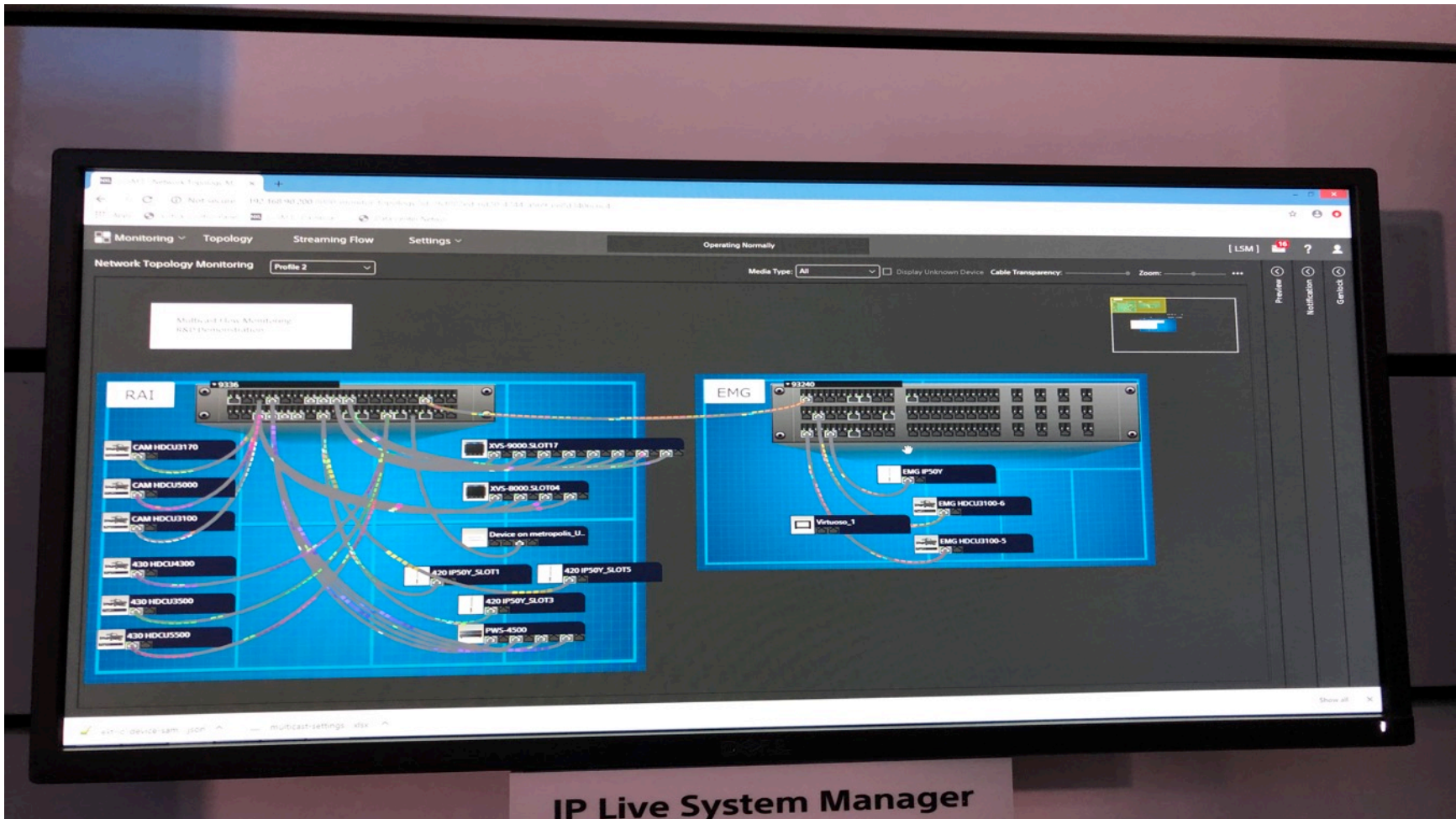
PWA-LEO

- 1. PWA-LEO is a web-based application that allows users to manage their LEO devices.
- 2. It provides a central dashboard for monitoring device status, performance, and usage.
- 3. Users can configure device settings, update firmware, and troubleshoot issues.
- 4. The interface is designed to be user-friendly and accessible from any browser.
- 5. PWA-LEO is a powerful tool for managing LEO devices in a large-scale environment.

SONY



MKS-R4020
MKS-E1620



IP Live System Manager

SONY

PWS-4500 (4U)

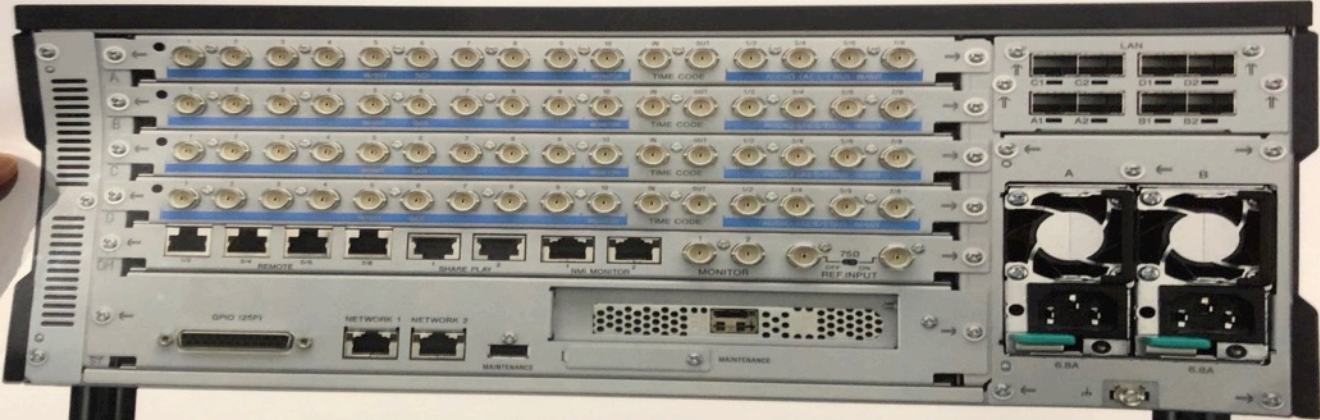
4K/HD Server with IP interfaces

IP Live
Production System

4K HDR
HIGH DYNAMIC RANGE

HD
1080p

HDR



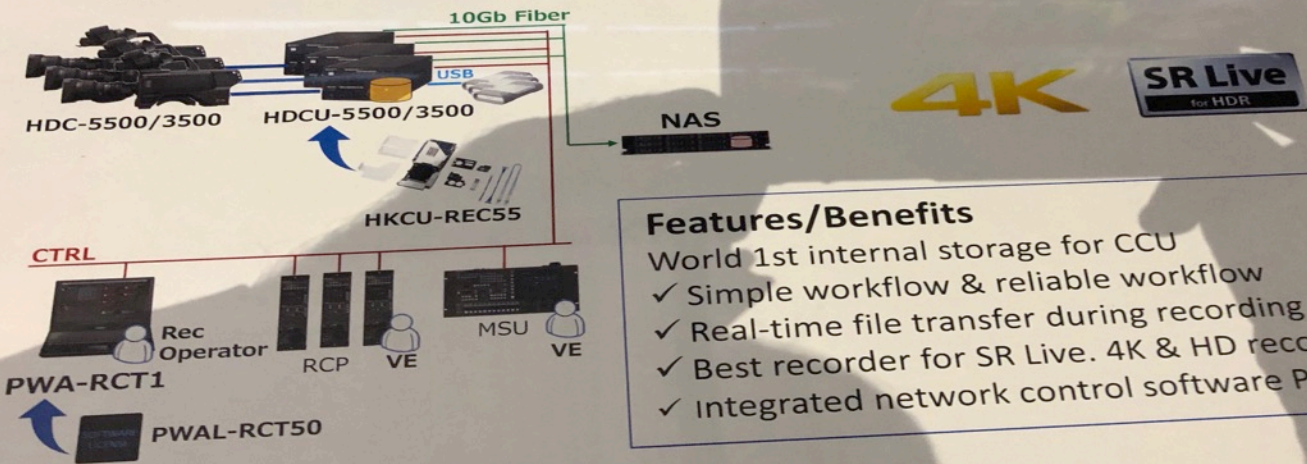
XAVC

DNxHD

ProRes

SONY

NEW! **HKCU-REC55** | CCU recording option for HDCU-5500/3500
Networked recording brush up the live production workflow



Features/Benefits

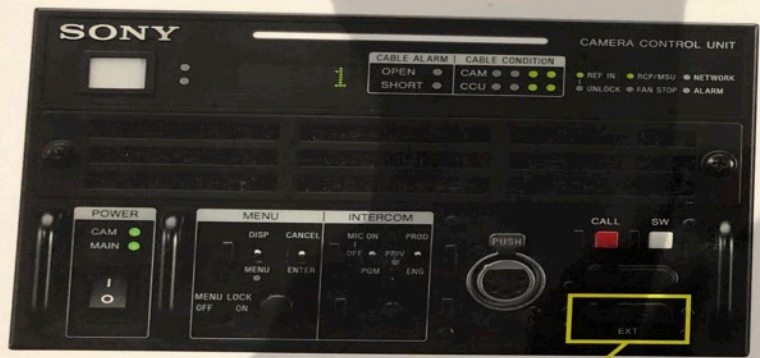
- World 1st internal storage for CCU
- ✓ Simple workflow & reliable workflow
- ✓ Real-time file transfer during recording
- ✓ Best recorder for SR Live. 4K & HD recording
- ✓ Integrated network control software PWA-RCT1

HDCU-3500 Rear

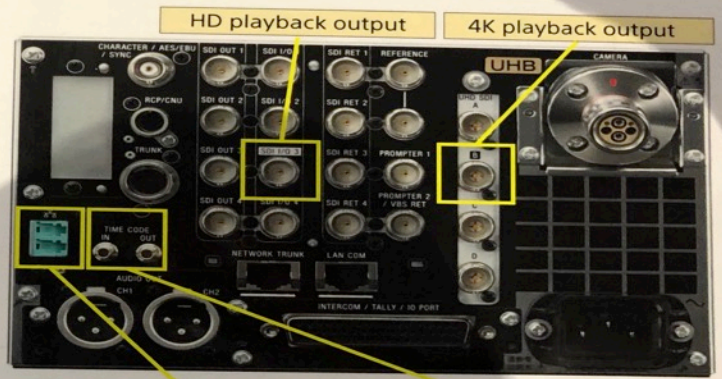
SONY

Front: with CCU Recording Option

Rear: with CCU Recording Option



USB 3.0 Transfer for USB SSD/HDD



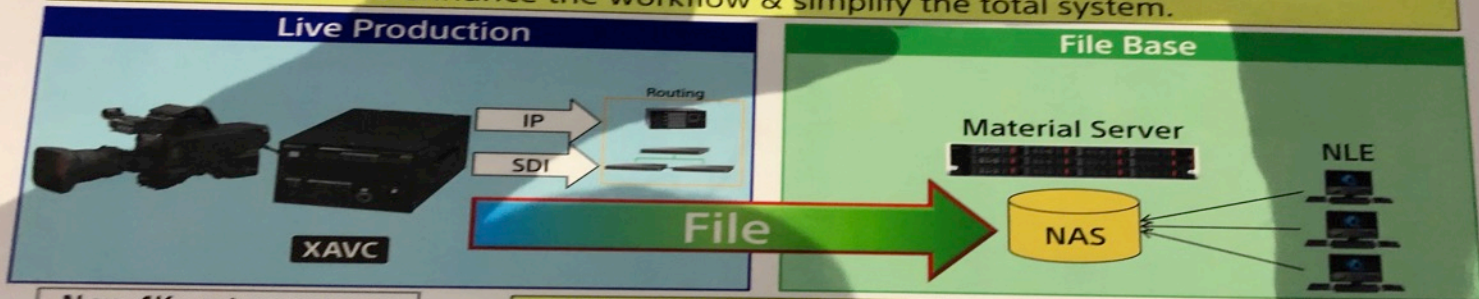
LC connector for 10G fiber Transfer to NAS

Timecode IN/OUT

Vision of CCU recording

SONY

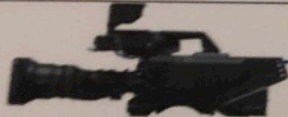
Be the Bridge between Live system & File base system.
To enhance the workflow & simplify the total system.



New 4K system camera
HDC-5500/3500

World's 1st recording
function inside CCU

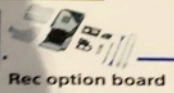
Direct file transfer
for Offline & Online Editing



HDC-5500/3500



HDCU-5500/3500



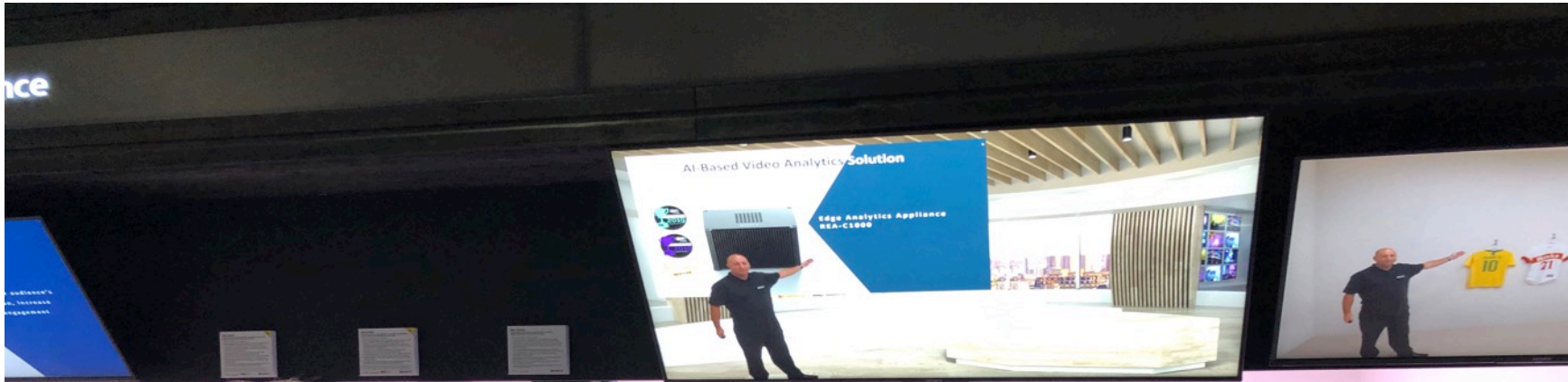
Rec option board



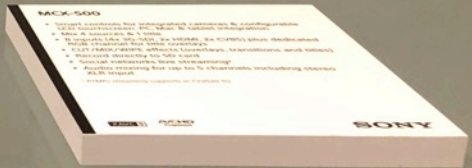
SONY

Crystal LED Display System











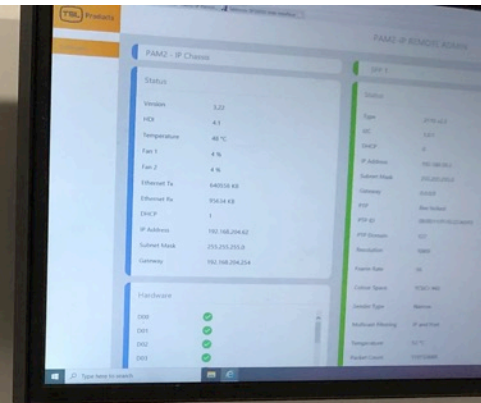


With Thanks to
ARISTA
Tektronix®

PAM2-IP ST-2110 ST-2022-6 AES67 20 SDI AES ANA EMBER+ NIMOS



PAM1-IP ST-2110 ST-2022-6 AES67 20 SDI AES ANA EMBER+ NIMOS



SAM-Q-SD

HITACHI
Inspire the Next

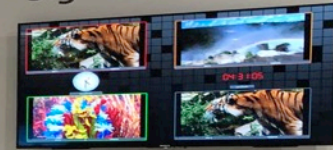


www.utahscientific.com

Hitachi 4K Broadcast Camera Systems
SK-HD1300L SK-HD1800 2-105500L CK-H200
Map - ST2110, 12G-SDI, HD/SDI, BT, 2020

Products, Systems, Solution
The Future of OB-Truck

IP Hybrid Routing • Monitor
• Signal Processing • Multi



Utah Scientific

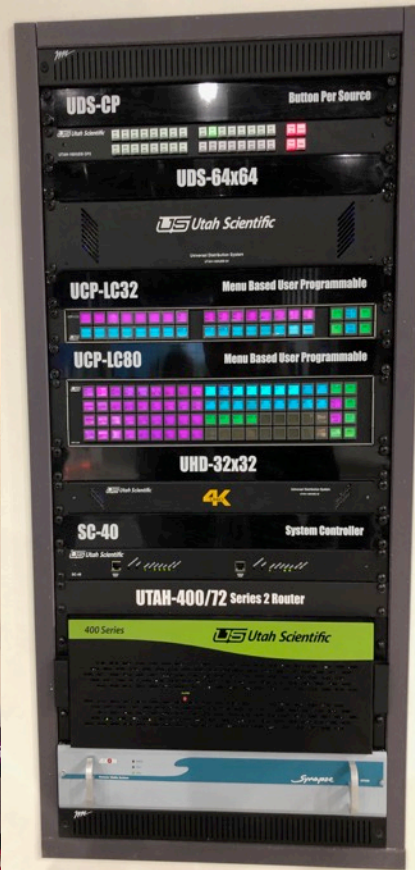
UTAH-100/UHD 288

Free
Info
Kit



IP Hybrid Routing • Monitorin

- Signal Processing • Multivi



HD-SDI 3

ANALOG V



Systems, Solutions
The Future of OB-Truck

HITACHI
Inspire the Next
US

Utah Scientific



Clear-Com®

FreeSpeak EDGE™

It's here and it
changes everything

Feel inspired
Belgium

Wallonia DE

CyanView

tessares

Clear-Com





FreeSpeakⁱ EDGE™

Clear-Com

It's here and it
changes everything

Feel inspired

Relaium

Clear-Com

FreeSpeak EDGE

Clear-Com



FreeSpeak Edge

A

B

C

D

5GHz Comms
TED talk 1
REPLY
Edge 04
Audio
Edge 05

 Clear-Com®





PHABRIX®

IP / SDI GENERATION | ANALYSIS | MONITORING

NEW! QxL 25G ST 2110

ST 2110 & ST 2022-6/7 Generation, Analysis & Monitoring

ST 2110
Qx 10G, Sx TAG

ST 2110
Qx 10G, Sx TAG

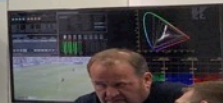
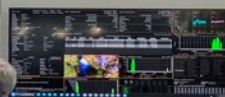
ST 2110
QxL 25G

HDR (HLG, PQ, SR LIVE)
Qx Series



BRIX®

MULTI-CHANNEL MONITORING
Rx Series



BEST OF SHOW

QX 10G, SX TAG

LLDP Info

Sfp Name	SFP A Neighbour	SFP B Neighbour	Mgmt Neighbour
Sfp Name	swsch-16628c	swsch-16628c	
Sfp Descr	MS20210.0nyx_S1W3	MS20210.0nyx_S1W3	
Chassis ID	EC-00-9A-FC-00-00	EC-00-9A-FC-00-00	80-7F-B9-4D-EE-8D
Port ID	Eth1/7	Eth1/7	gs
Port Descr			
Mgmt IP	192.168.10.254	192.168.10.254	192.168.10.20
Primary VLAN	0	0	

PTP Info

IGMP	Max V3	Master ID	DE:80:39:3F:FE:91:1A:23
Listening on domain	0	Domain	0
Slave Mode	Hybrid (BAU)	Priority 1	1
Local PTP State	Slave	Priority 2	128
Appl freq adjustment	-3925 ppb	Clock Class	7
Appl freq adj delta	0 ppb	Clock Accuracy	-250 ns
Estimated Phase Offset	6 ns	Variance	61536
Last Sync message	Two-step	Clock Source	Internal Oscillator

SFP A : PTP frequency and phase locked

Grand Master Info

SFP A	Sel	Protocol	Type	Dest IP	Src IP	SSRC	Bandwidth	Packets	Seq errors
A	VID	2110-20	96	239.161.20.1:20000	192.168.10.161:20000	0	1,090 Gbps	97892963	0
A	VID	2110-20	100	239.202.20.1:5000	192.168.10.203:5000	2824362729	1,090 Gbps	209948728	0
A	VID	2110-30	96	239.202.30.1:5000	192.168.10.203:5000	609519121	9,644 Mbps	906414	0
A	AUD 2	2110-30	97	239.145.30.1:20000	192.168.10.183:10000	0	21,988 Mbps	154826633	0
A	AUD 1	2110-30	97	239.161.30.1:20000	192.168.10.145:10000	0	21,888 Mbps	7254230	0
A	AUD 1	2110-30	97	239.161.30.1:20000	192.168.10.161:10000	0	9,644 Mbps	19359796	0
A	ANC	2110-40	100	239.18.40.1:20000	192.168.10.318:10000	0	43,892 Mbps	1482007	1
A	Other IP	98	239.0.3.20:20000	192.168.10.51:44769	587792386	40,025 Mbps	27152	0	
A	VID	2110-20	100	239.202.20.2:5000	192.168.10.204:5000	2824362729	1,090 Gbps	2093336492	0

IP Receive - Interpacket Timing

SFP	Min	Mean	Max
SFP A	4.947µs	9.260µs	836.291µs
SFP B	5.376µs	9.260µs	834.558µs

IP Receive - Interpacket Timing

SFP A	Min	Mean	Max
SFP A	998.381µs	1000.04µs	1001.696µs
SFP B	999.290µs	1000.04µs	1000.784µs

IP Receive - Interpacket Timing

SFP A	Min	Mean	Max
SFP A	114.992µs	125.007µs	153.03µs
SFP B	117.480µs	126.007µs	152.894µs

IP Receive - Interpacket Timing

SFP	Min	Mean	Max
SFP A	319.09µs	13248.01µs	19884.320µs
SFP B	318.974µs	13248.01µs	19884.224µs

Video Timing & System Reference

Video Timing	Media Latency	Ext Ref vs PTP
VID A	726.36 µs	726.68 µs
VID B	726.68 µs	735.97 µs
VID A	335.25 µs	344.49 µs
VID B	335.57 µs	344.86 µs
VID A	-28.66 µs	-4.68 µs
VID B	-28.12 µs	-4.68 µs

Ancillary Status

No Selection	Presence	Checksum	Parity
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

512M-2 V-Code (606 60H) Y

Ancillary Inspector

Identifier: 512M-2 V-Code
 Range: All lines
 Trigger Type: Continuous
 Location: Y-Pos & C-Pos

Found in HANC V-Pos Line 10 Sample 199 @ 12:44:52

000	3FF	3FF	200	200	110	140	200	200	200	200	200	200	200	100
000	3FF	3FF	200	200	110	140	200	200	200	200	200	200	200	100

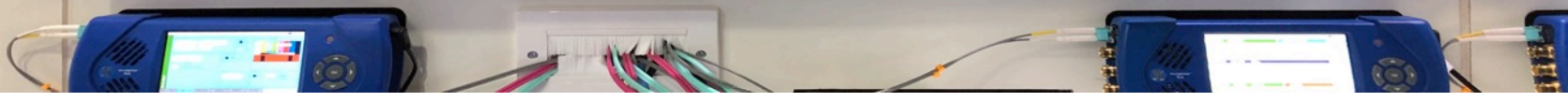
Analyser - 2022-7 Status

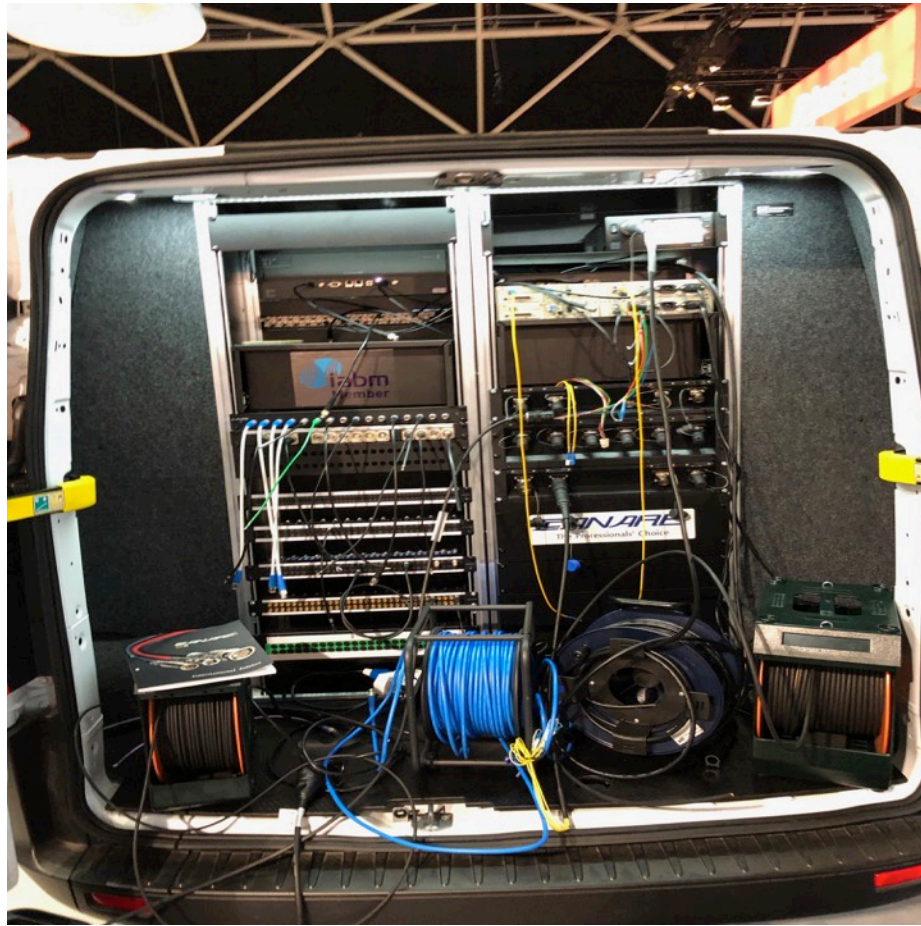
Analysis Time: 1h 40m 17s

VID	AUD 1	AUD 2	ANC
Skew	-360 ns	Path 1 Err	0 Rate (%)
Most vs PD	1.20 µs	Path 2 Err	0 Rate (%)
Most vs PD	-1.11 µs	Reconstructed Err	0 Rate (%)
OK Time	15m Bz	Mismatches	0 Rate (%)

Path Differential within Class D (PD - 150 µs) Reference Path: SFP A

SONY









TVlogic®

TVlogic®

TV

TVlogic ON-AIR

TV

AXON
IM 2.0
D CONTROL

2019 All New
24" 4K HDR Monitors
The most advanced and affordable 4K display
for your amazing HDR contents.

tvlogic_official

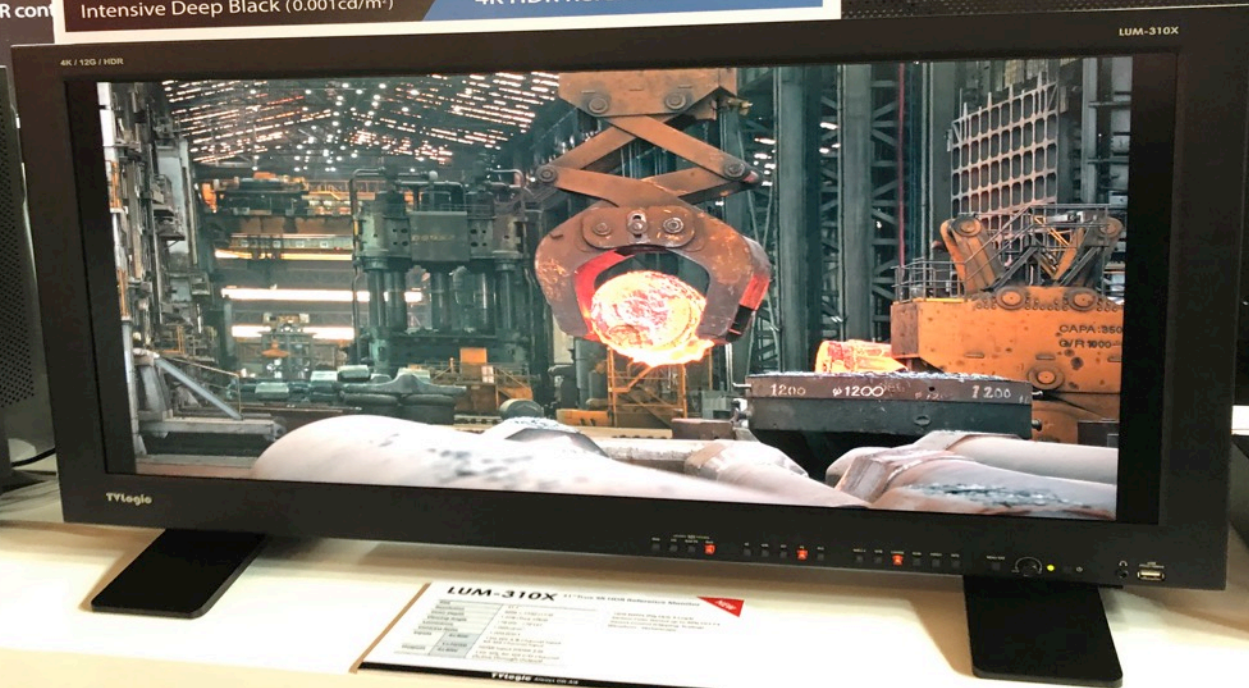


2019 All New 24" 4K HDR Monitors

The most advanced and affordable 4K HDR monitor for your amazing HDR content

Intensive Deep Black (0.001 cd/m^2)

New
4K HDR Reference Monitor



LUM-310X 24" 4K HDR Reference Monitor

Model	Resolution	Refresh Rate	Panel Type	Response Time	Viewing Angle	Color Gamut	HDR Support	Deep Black	OSD	Inputs
LUM-310X	3840 x 2160	60Hz	IPS	5ms	178°	100%	HDR10	0.001 cd/m²	Yes	HDMI, DisplayPort, USB-C

TVLogic



iab
Silver Membr

Computer Configuration
Building a new device core

Shortlisted

COMPACT LIVE PRODUCTION

- Pick the perfect form factor
- Integrate control of multiple devices
- Use friendly dynamic labels
- Multiple splicer system supports

Blackmagic Design
Newtek
Roland
VMix

CUEPLOT

Mini Fly Pro
Professional 16 channel 16 button multi-media controller
Professional support via VMix customers.
£1299

Mini Fly
Your Swiss Army knife for live production. Keep it simple without sacrifices.
£869

Live Fly
Professional 16 channel 16 button multi-media controller
Professional support via VMix customers.
£1299

Mini Fly Pro
Professional 16 channel 16 button multi-media controller
Professional support via VMix customers.
£1299

Supernova PPT Controller
• High speed operation
• Easy to use interface
• Full range of controls
• Customisable graphical interface

TriCaster Mini

VMix Fusion Live
Professional 16 channel 16 button multi-media controller
Professional support via VMix customers.
£1299

Media Sanyo Ferno

SKAARHOJ

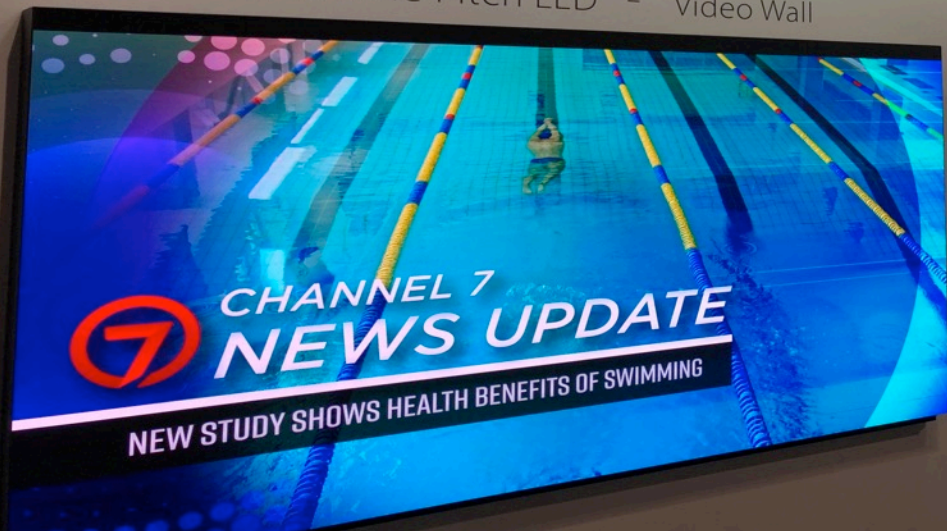
Universal Broadcast Controllers

LEYARD™

On-Camera LED Video Wall Solutions

Leyard® TVF Series

Front-Service Fine Pitch LED - Video Wall



Leyard® CarbonLight™ CLI Series

Perfectly Curved LED Video Walls for TV Studios







SMPTE Camera Hybrid Fiber Optimization The HUT Converts To & From Single-Mode Fiber

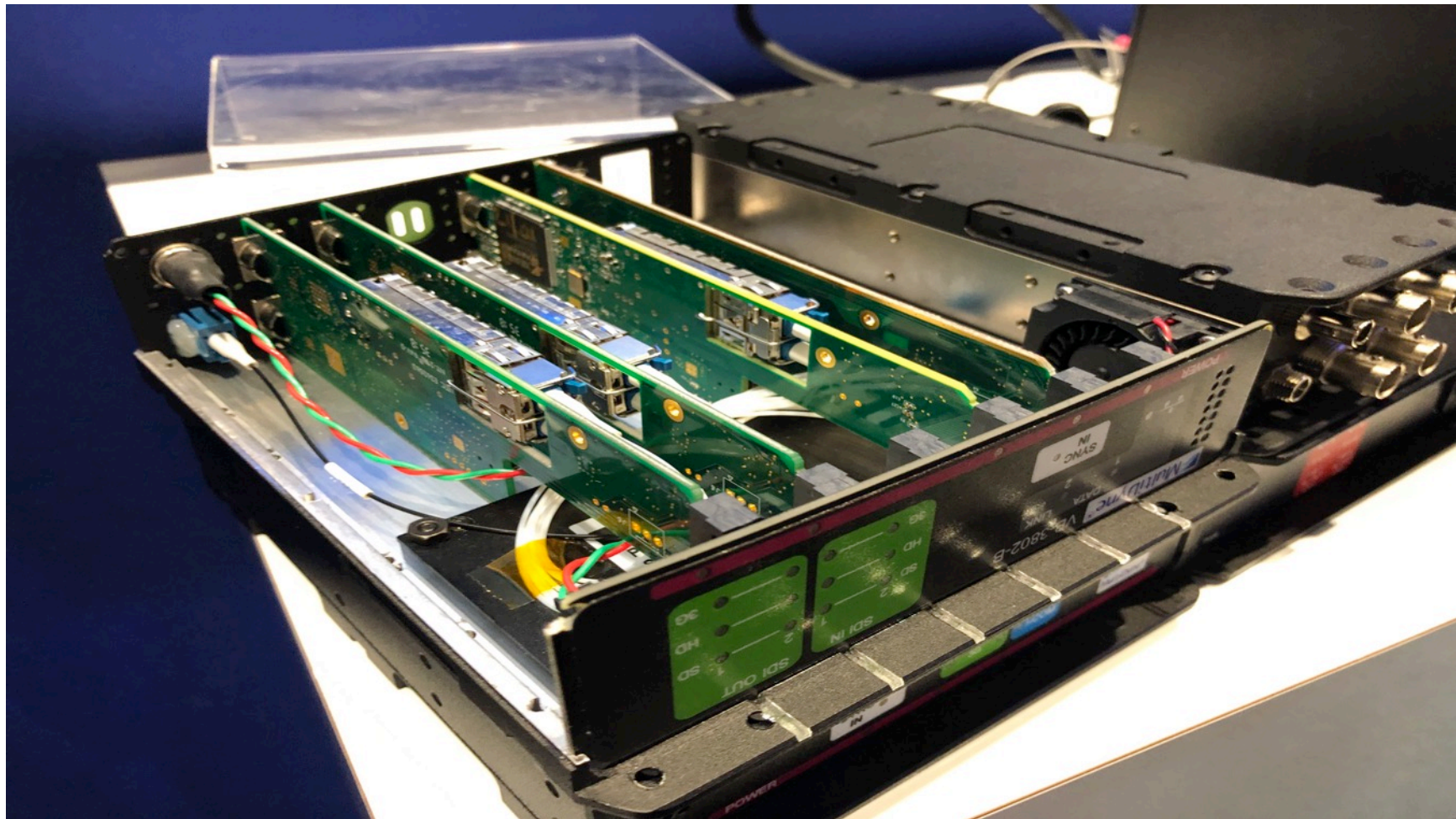


**FiberSaver12Gs Mux & De-Mux Bi-Directionally
Format Agnostic Design Maximizes Fiber Usage**

SMPTE-HUT **FiberSaver^{12G}**
Hybrid Fiber Transceiver / Converters Wavelength Remapping CWDM Muxes



OG-4600 | 12G-SDI 4K/8K Camera / Production Signal Extender







17
Monitor-Switcher
Function

SHOGUN 7

NEON 17

NEON 24

SDI Expansion Module

Add SDI with a click

Fit Atomos Monitor-Recorder into a pro video
production - Works with Neon and Ninja V

ATOM X
Expansion Module

Add Sync with a click

MicroSync and BlueForm
* Use with Atomos Ninja V

10" HDR Monitor-Recorder-Switcher

For on-set and in-studio production

ACCESSORY KIT

ATOM X
10" HDR Monitor-Recorder-Switcher





CORP



SOUND DEVICES



ON
OFF
ON

1-2

3-4

A10-RACK

5-6

7-8

DIGITAL

A10-RACK

4-SLOT WIRELESS RECEIVER ENCLOSURE

- 1 RU 4-slot wireless receiver rack system
- 8 ch Dante / AES / Analog outputs
- Built-in power and antenna distribution with antenna loop-thru
- 4-pin DC XLR input
- Compatible with Audio Limited, Lectrosonics, and Wisycom slot receivers



Versatile distribution of slot-in receivers to Dante or AES



POWER

VOL

AUDIO

LCD

970

KEYBOARD

HP: Stereo Int/48000 11.9V/ 0.0V 00:00:00.0 [STOP]

Track 01	A10-Rack-09	0.0	0
Track 02	A10-Rack-09	0.0	0
Track 03	Line In 3	0.0	0
Track 04	Line In 3	0.0	0
Track 05	Line In 3	0.0	0
Track 06	Line In 3	0.0	0
Track 07	Line In 3	0.0	0
Track 08	AES In 2	0.0	0
Track 09	AES In 2	0.0	0
Track 10	AES In 2	0.0	0
Track 11	AES In 2	0.0	0
Track 12	AES In 2	0.0	0
Track 13	AES In 2	0.0	0
Track 14	AES In 2	0.0	0
Track 15	AES In 2	0.0	0
Track 16	AES In 2	0.0	0

*D1: 56h33 *D2: 56h30 *D3: Offline *D4: Offline

04:17:46:00 64TrackTestAudio

MENU

REC

FILES

SOUND DEVICES

970

AUDIO DECK FOR CART OR RACK

- 64 channels of MADI and Dante audio I/O
- Eight line-level analog I/O
- Eight AES I/O
- Ambient™ Lockit timecode master clock
- Four-drive simultaneous recording
- Secondary DC input for added peace of mind

MADI TC SYNC IN

CH 1-8 LINE IN

CH 1-8 LINE OUT

AES CH 1-8 IN/OUT

REMOTE

10-27V

USB

eSATAP 4 eSATAP 3 RS-422 PRI SEC

Hollywood's choice for high-track count projects.



MADI Dante

A10-RACK

Hollywood's Choice for High Track Count Projects

POWER SAFE MADI Dante



Design & manage your IP work

Fraunhofer
DIGITAL MEDIA
SOLUTIONS

Integrated OLED

PRM - EZ333

ALEXA LF

Vector Scope # : 75%

Waveform Line # : 08

Audio Loudness		
Max Peak	Target	Current
-9	-18	-16
LTPS	LTPS	LTPS

plura

MPEG-H Audio
Production

Content analysis

LYNXTechnik AG[®]

Broadcast Television Equipment

LYNXchnik AG
Series | 500
Terminal Equipment
DVD 5480 HD
DVD 5480 TD

greenMachine

Multiple purpose Processor

- 1 HDR Evie
- 2 HDR SDR
- 3 3D
- 4 Quad PS
- 5 BiDi Transport
- 6 TESTOS

HDR Evie

THE WORLD'S FIRST
REAL TIME AUTOMATED FRAME BY FRAME
HDR TO SDR CONVERTER

Supported standards

HDR Evie

THE WORLD'S FIRST
REAL TIME AUTOMATED
FRAME BY FRAME
HDR TO SDR CONVERTER



LYNXTechnik AG

Not all bricks are the same!

100,000
YELLOBRICK UNITS SOLD
finally, bricks done right...







70+ REASONS TO SAY ...

~~YES.~~
SHIFT.

~~YES.~~
SHIFT.
SHIFT GEARS.
SHIFT PERSPECTIVE.

THE REAL IP EXPERIENCE

Audio Control Room

Remote

tedial

THE REAL IP EXPERIENCE







NEW

4K Video Switcher

HVS-1200

4K UHD 120FPS HDR MEG

- 12G/3G/HD-SDI supported
- 4K: 1 ME + 1 MELite, HD: 2 ME + 4 MELite
- 4K 25i support
- 4K: 10 in/10 out, HD: 40 in/10 out (includes 2 HDMI outputs)
- Still and clip processing
- Two keyers per ME for 4K (four for HD), one FLEXaKEY (four for HD)
- Two 2.5D DVEs for 4K or 16 for HD, expandable up to four for 4K
- Frame synchronizer for all inputs, which support still capture
- Two multi viewers

FOR A World of Possibilities

FOR

Video Switcher

HVS-1200 (Rear Panel)



FOR A World of Possibilities

Routing Switcher

MFR-1000

4K UHD 120FPS

- New architecture with 12G-SDI matrix
- 12G/6G/3G/HD/SD-SDI in/out matrix
- Up to 16 in/16 out in 1 RU frame
- AVDL functionality (optional)
- Redundant power supply (optional)
- SNMP support
- Built-in Web server enables immediate setup
- Front control panel as standard
- Various remote control panels available

FOR A World of Possibilities



BRIDGE TECHNOLOGIES™

BRIDGE TECHNOLOGIES™



WIDGETS™ API
HTML5 Video Monitor

RIEDEL

REMOTE PRODUCTION A

OB VANS, Sporting Venues, F



- VB440 w/ Instrument View Engine
- HTML5 remote access
- 8 simultaneous users
- Dual 100 Gbit interfaces
- Status, Video, Audio, Packet Loss, Waveform Vectorscope
- SD, HD, 4k and 8K over IP
- Monitor ST2110, ST2022-6/7, ST2059-2 & NMOS



JT-NM * TESTED
SMPTE
ST 2110

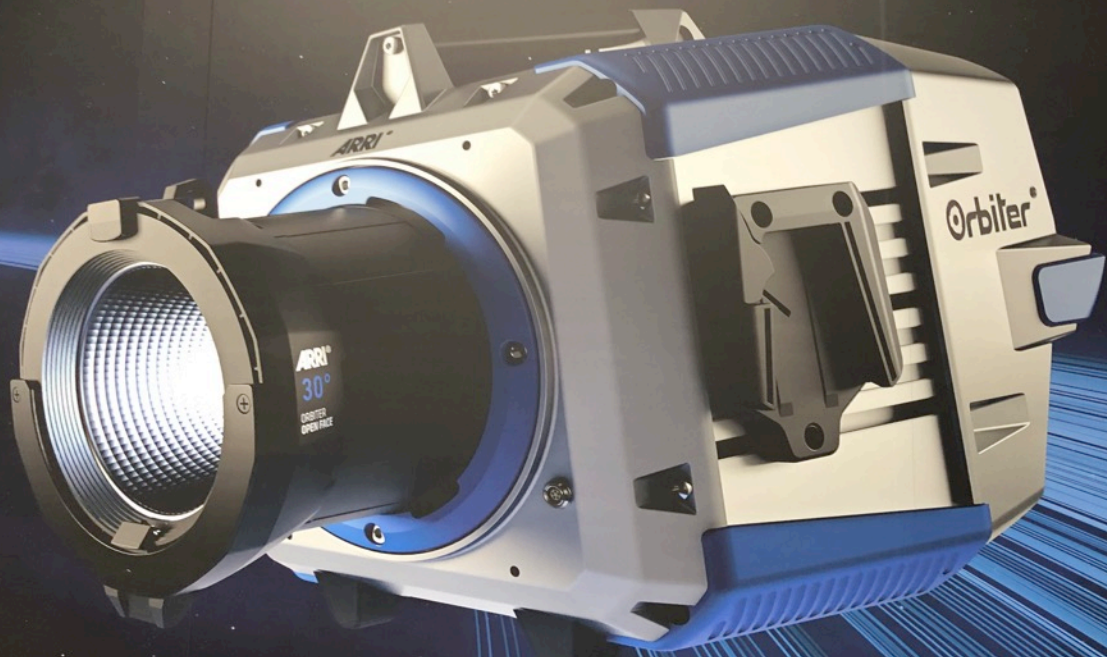
JT-NM * TESTED
AMWA
NMOS
JT-NM
TR-1001-1
08 / 19







ARRI®
Orbiter
Illumination | Reshaped









VIDEO-OVER

CONNECTED CAM™ The Most Resilient Video Transport over the Internet



Z/X Advanced QoS

IP Live streaming, Remote control / FTP Transfer / IFB / Video-Return SYSTEM LAYOUT SAMPLES

QDP with DATA BONDING	ZIXI FEC with DATA BONDING	JRAMP with ZIXI FEC	ZIXI Forward-Error-Correction	SFE-CAM2 LTE DATA-Bonding	SpeedFusion VPN Data-Bonding
VIDEO RETURN IFB feedback	FACEBOOK LIVE G1-IM250	KA-EN200 H265 HEVC Encoder	The CONNECTED SYSTEM	BR-DE900 Decoder	BR-EN900 H265 HEVC Encoder
	CONNECTED CAM STUDIO	JVC's IP and Production Hardware	OTHER TECHNICAL'S SSD/FW3.0/OIS/Remote/HDR/etc.	Other Products	
	Studio-Fiber Multidyne Overview				

KNOWLEDGE BASE TOUCH-ME

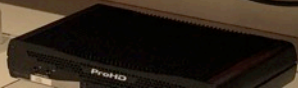
IBC2019 BOOTH-ORIENTATION

JVC

© 2019 JVC. All rights reserved. The names for weights and dimensions are approximate & A.O.E. Design and specifications subject to change without notice.



Turning Imaginat
into a Motion Pic
2019 Connectivity System



4craft
K Multiviewer

one
duo
cuatro



Modular 4K Multiviewer

3G SDI Inputs
HDMI Inputs
4 3G SDI Outputs
4K Output
with Cascade

Up to 16 inputs (8 input boards)

CRALTECH
BROADCAST | MONITORS | MULTIVIEWERS

SFX
4K Ready QUAD
Quad-Split Monitors

HDR (HLG, PQ & SLOG)
3D LUT Color Management
High Brightness Versions
Ultra Light Design

SFX
SERIES
Broadcast Monitors

Optional SFP Module
(P. 00470-010 & 002, Optical Fiber...)

BOX
4BOX



Modular 3G Multiviewers

3GSDI, HDMI, CVBS Inputs & Dual Output
Free layout design
UMD & Tally, Clocks, Markers, Alarms,...

4K Mini Quad-Split HDMI

Display with **no delay** and **high quality image**
up to 4 Full HD HDMI sources simultaneously
on a 4K UHD Screen or Projector

for only **685 €**







Powered by CORALTECH

SILENCE

BOX
4BOXES
SOUNDSCOPY | HDMI | CVBS
MODULAR
MULTIVIEWER

SILENCE

HDMI_01

win your break 4K

Come to visit us at our booth **11.C02**
and **[WIN A BREAK!]**

NO DELAY
4K QUAD-SPLIT
SOLUTION

ib 2019

GAMING

win your break 4K

Come to visit us at our booth **11.C02**
and **[WIN A BREAK!]**

NO DELAY
4K QUAD-SPLIT
SOLUTION

ib 2019

PC

HDMI_04

ewers
al Output
ut design
Alarms,...

4K Mini Quad-Split HDMI

Display with **no delay** and **high quality image**
up to 4 Full HD HDMI sources simultaneously
on a **4K UHD Screen or Projector**

for only **685 €**



CRALIT
BROADCAST | MONITORS | MULTIMEDIA

SFX
4K Ready **QUAD**

Quad-Split Monitors

4K Ready FHD Monitors

SFX
SERIES

Broadcast Monitors

Optional SFP Module

(IP SMPTE-2110 & 2022, Optical Fiber,...)

HDR (HLG, PQ & SLOG)
3D LUT Color Management
High Brightness Versions
Ultra Light Design



grass valley
A BELDEN BRAND

BELDEN
SENDING ALL THE RIGHT SIGNALS

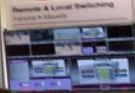


1 Piece
4K BNC
Connectors

REVOLUTIONARY
RJ45
Connections

FIBER
Splice-on
Connect

Remote/At-Home Production
Transforming the cost of live



IP Workflows End-to-end IP made easy

Process, Convert, HDR-SDR
Stereo • Altamira • KuduPro • IG

Integrated IP Routing, Configuration, Control & Monitoring
GV Core • GV Fabric • Audio Live • Multiviewers • IPVU

NEW GV Fabric
Core IP Switch

Use COTS hardware to integrate, configure & monitor your IP network

Talk to us about:
IP Dynamic Orchestration
Configuration/Control/Monitoring
Core IP Switch
Automatic Audio Pathfinding
IP Processing

'Hitless' IP Stream Redundancy
GV Fabric



















Remote/At-Home Production

Transforming the cost of live

Remote & Local Switching
Kahuna • Muxwork



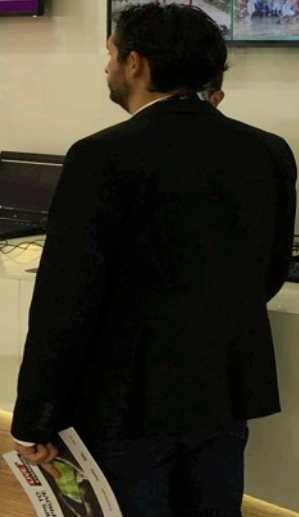
Collaborative Replay
LiveTouch



Distributed Production
Kahuna • LDX



Talk to us about:
DirectIP Cameras
Multi-operator Highlights & Replay
Distributed Switchers & Processing
Core IP Switch
IP Control/Monitoring





NewTek
LIVE
NewTek @ IBC 2019
Show closes in 03:23:31

Software interface showing a graph and a circular gauge.

Software interface showing a video editing or multi-camera control interface.

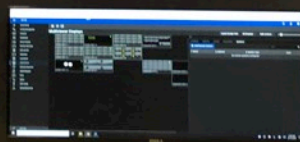
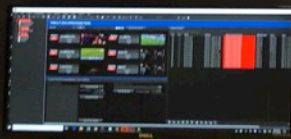
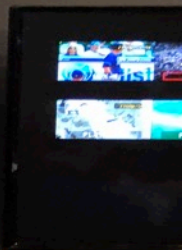
NewTek
Multi-colored backlit keyboard and mouse.





Complete 12G / UHD / 4K Solutions

Distribution | Conversion | Routing | Multiviewers



erface

evEDGE

SCORPION

SCORPION

MIO-Modules



- ✓ **MIO-VB-2-12G** – Dual SDI Interfaces
- ✓ **MIO-VTR-2-12G** – Quad SDI access module
- ✓ **MIO-AES-D4** – 4 Ch AES De-embedder
- ✓ **MIO-AES-IP** – AES3 to AES67 Gateway
- ✓ **MIO-AES-IN4-IP** – Quad AES3 to AES67 Encap
- ✓ **MIO-AES-OUT4-IP** – Quad AES67 to AES3 De-encap
- ✓ **MIO-MADI-2-IP** – MADI Encap/De-encap
- ✓ **MIO-DANTE-64** – Dante to TDM
- ✓ **MIO-IT-IP** – AA/Serial/GPIO gateway
- ✓ **MIO-USB-A/B** – USB gateway
- ✓ **MIO-GE-RJ45** – Ethernet Access Module
- ✓ **MIO-GE-RJ45-IP** – Ethernet Access Module
- ✓ **MIO-SFP** – SFP Access Module
- ✓ **MIO-AVT** – Analog Video/Reference Transmitter
- ✓ **MIO-AVR** – Analog Video/Reference Receiver
- ✓ **MIO-GB2-12G** – Dual channel quad link conversion
- ✓ **MIO-BLADE-Z21** – Microservice module
- ✓ **MIO-HDMI-2-4K-IP** – Dual 4K HDMI Gateway
- ✓ **MIO-HDMI-IN/OUT-3G** – 3G HDMI access module
- ✓ **MIO-HDMI-IN/OUT-4K** – Mid Tier 4K HDMI access module
- ✓ **MIO-HDMI-IN1/OUT1-4K** – Low Tier 4K HDMI access module
- ✓ **MIO-HDMI-IN1/OUT1-4K-IP** – Low Tier 4K HDMI over IP gateway



4K
ULTRA HD
HDMI
HIGH DEFINITION
everlz

1

LG

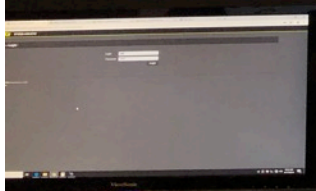
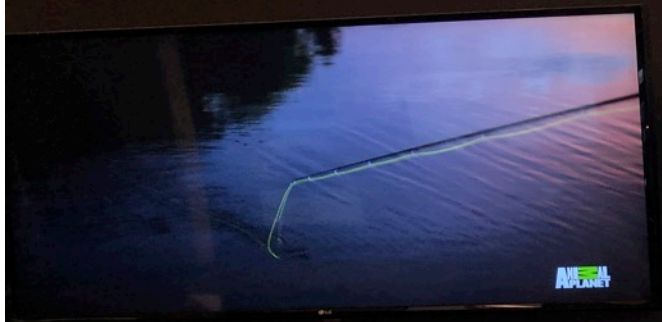
SCORPION-4



SCORPION

Video Delivery Infrastructure

Contribution | Distribution | OTT

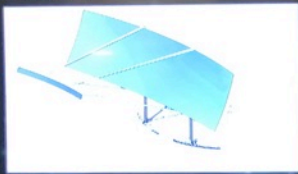




Complete End-to-End RF

RF Over Fiber | RF Matrix | IRD / Demod

multisat-3 Sensei Antenna
Multi-Beam Ku-Band Antenna



Equivalent to 8x Ku Band Antennas

evertz

7882IRD-S2x-10GE
Professional IRD with SMPTE 2110 Output



- 4x RF
- 3x SDI
- 1x SFP
- 2x ASI In/Out

MPEG over IP & SMPTE 2110 Output
MPEG2/H.264 8 & 10 bit, HD/SD, 4:2:0, 4:2:2

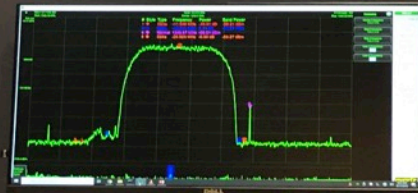
SMPTE 2110

2019

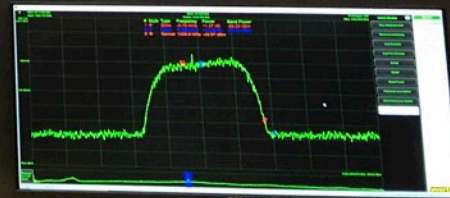
Can-out Switch



100MHz 100VDC 100A



WARNING OF
RF RADIATION



MEDIA
TECH

MEDIA
HEADEND

PICTURE QUALITY

OPERATIONAL & COMPRESSION EFFICIENCY





aws



Studio in the Cloud: Editing
Collaborate at Scale to Deliver Digital Content Faster

Studio in the Cloud: Graf
Use Your Favorite Tools to Create Content and Iterate Faster



Enriched Viewing Experiences
Use ML for Metadata Extraction and Content Personalization

Smart Language Services
Automate Transcription, Translation, and Subtitling in Real Time

Storage Costs with QFS, OnFS and S3

with CloudFront

AI & ML ARCHITECTURE



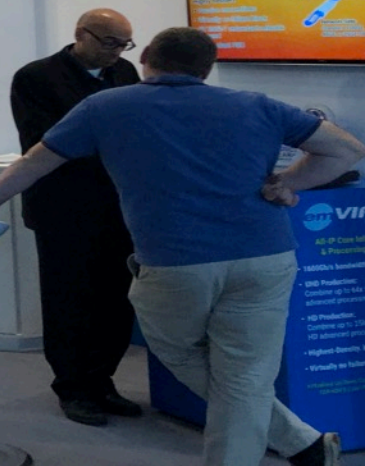
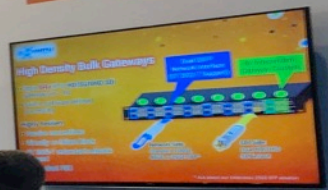
ionix

ER YOUR
DUCTION

OPTIMIZE IP REMOTE
PRODUCTION

EQUIP YOUR CORE
IP Infrastructure & Processing

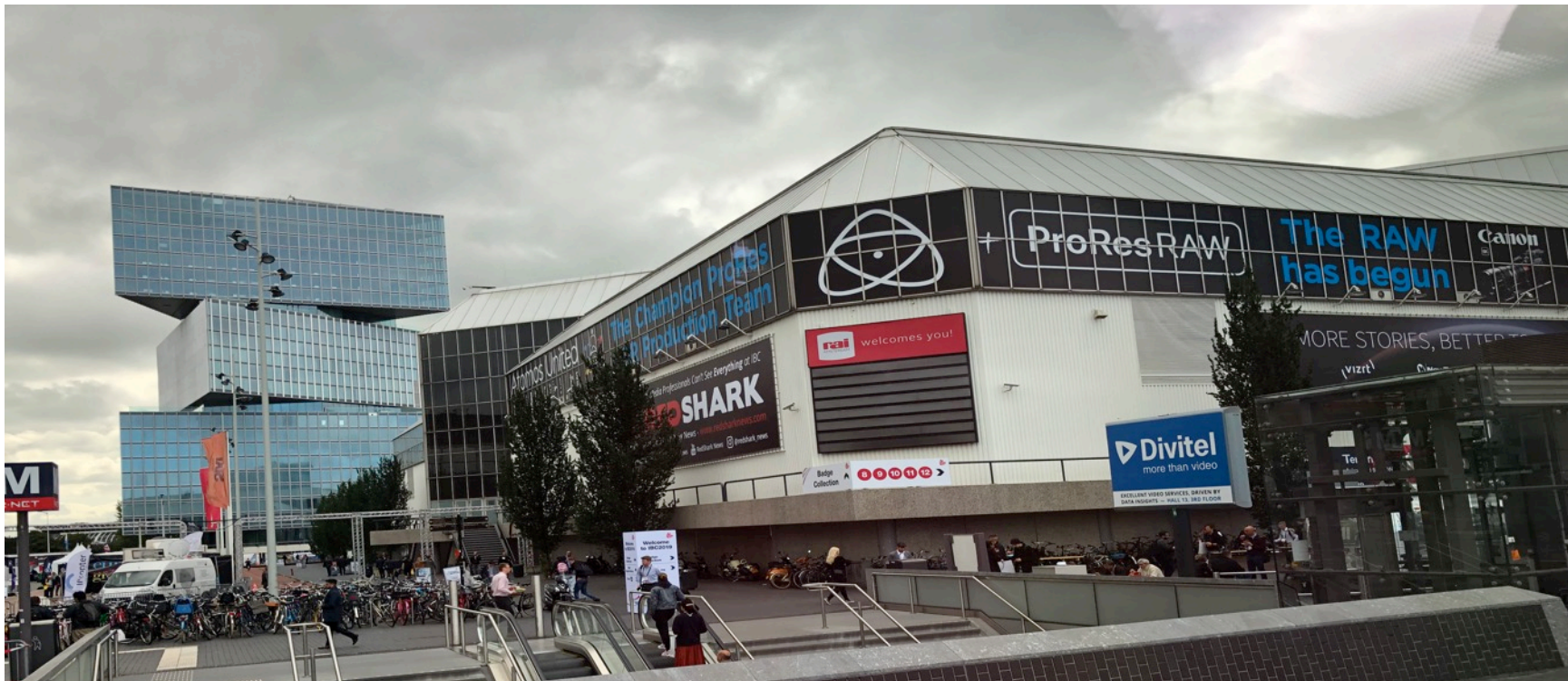
SIMPLIFY
THE PATH
to-&-thru IP



VIRTU
All-IP Core Infrastructure
& Processing Platform

- 10000u's bandwidth
- SDP Production: Complete end-to-end SDP/TS 27.2/18 advanced processing features
- HD Production: Complete end-to-end HD/TS 27.2/18 IP advanced processing features
- Highest Quality, Incredibly Compact
- Virtually No Packet Loss

Virtualized Core Infrastructure & Processing Platform



Bob Baker
Clark

bob.baker@clark.is

clark™

Start the Conversation