



# Technical Data Sheet

## PHYSICAL DIMENSIONS

Length: 12.5m Rigid  
 Width: 2.5m (Transport) 4m (deployed)  
 Height: 4.3m  
 Weight: 17 tonnes

## POWER & AIRCONDITIONING

Dual 32A CLIPSAL 3-phase Inputs (Tech and Non-Tech)  
 3 x EATON 9PX 40A 8000KVA UPS System (Tech Only)  
 Dual Redundant 3-phase Air Conditioning Systems

## VIDEO HARDWARE

ROSS Ultrix Router [FR5 Frame] - 135x135 I/O

- Ultripower PSUs (2x for FR5 Frame, 1x for SDPE Blade, 1x Hot Spare)
- Dual Redundant Processors (2x UCCI Cards)
- 7x ULTRIX-HD-IO Blade - 16x16 (112x112 Total)
- 5x SFP-HDB-IO-12G - SDI I/O for UltraScape MV Heads (5x5 I/O)
- 1x SFP-MADI 64x64
- 5x ULTRISCAPE Multiview Heads
- ULTRISPEED (12G / 4K capacity on all I/O)

1 x CARBONITE SDPE Blade (2x ME, 4x MiniME) (18x18 I/O to FR5)

- 2x ME = 6 Full Keyers + Transitional Keyer
- 4x MiniME = 2 Full Keyers + Transitional Keyer
- 12x Floating DVE
- 4x Floating ChromaKeyers (w/UltraChrome)
- 4x Floating Video/Key MediaStores
- 2x Multiview Output
- [Licence] PROC-AMP (all input channels)

1 x TouchDrive TD2S Control Panel

- 25 Crosspoint Buttons with Mnemonics
- 2 Mix Effects Control Rows (Stripes)
- 3 Crosspoint Row Selectors per Stripe
- Advanced Effects Memory keypad on each stripe

BMD Constellation 8K Active Backup Switcher (dual Patched)

- 1ME or 2ME Advanced Panels available if required

## ROUTER PANELS

ROSS RCP-QE36 panels

- for CCU 1+2, Tailboard & Switcher positions.

ROSS UltraTouch panels

- for all other positions with custom DashBoards to use as SDVoE KVM control, Ultrix routing control or other custom Dashboard panels.

## RECORD & REPLAY

12x BMD HyperDeck Studio 4K PRO Recorders

- BMD MultiView 16 patched to Ultrix for Record Monitoring

Wiring and Rack Ready for EVS Server and XFile3

- 8ch Rec / 2ch Play / 2x MV

1x vMIX Replay Server (hp Z8 G4)

- 4ch Record / 2ch Play / 1x MV-Control UI

## SYNC

Brainstorm DXD-16 Grand Master Clock  
 GPS Master Sync Generator for the following:

- PTP v2 for comms
- PTP v1 for Dante
- Blackbus and TriSync for Video Sync/Genlock
- WordClock for Audio Sync
- TOD Timecode Generator
- Web Interface for Monitoring and Management

## SIGNAL TRANSPORT

Riedel MicroN UHD System

- 8x8 SDI I/O at 12G/4K or 16x16 SDI I/O at 3G/FHD (can be mixed)
- 2x SFP MADI Ports (bi-directional audio 256x256 channels) Copper or Fiber
- 3 x Discrete Ethernet Network Trunks (Comms, Dante, Spare/WAN Input)

External Truck Rack (via Opticon Quad)

- Riedel MicroN UHD System (linked via SM fiber pair from Truck)
- Rosendahl NanoSyncs HD Generator (Sync from Truck to Word Clock, Blackburst, etc)
- Aruba 2930M Comms switch (PTP v2)
- Netgear M4300 AV Control network switch
- Eaton 9PX 1500VA UPS

## GRAPHICS

BARCO e2 Screen Management System

- 6x DisplayPort 1.4 Input Cards (from PCs and MACs)
- 2x SDI Quad Input Cards (from Ultrix)
- 3x SDI Quad Output Cards (to Ultrix)
- 1x HDMI 2.0 MV Output Card (converted back to SDI to feed into Ultrix)
- 8x8 SDI Links to and from ULTRIX
- Genlocked to Brainstorm DXD-16
- EC-30 Control Surface

6 x Apple MAC Mini Computers [M1, 16G RAM, 256G SSD]  
 6 x Intel NUC Computers [i5, 16G RAM, 256G SSD]  
 ROSS Xpression Prime 12G Graphics Server (Key+Fill)

## VIDEO MONITORING

4x LG 4K 49" IPS Screens in Production Front  
 3x Lilliput 4K 15" Screens in Production Rear  
 1x LG 4K 42" IPS Screen in Audio  
 1x Lilliput 4K 15" Screen in Audio  
 2x Lilliput 4K 32" Screens in Graphics  
 2x Lilliput 4K 17" Screens in Graphics  
 1x Lilliput 4K 15" Screens in Graphics  
 4x Lilliput 4K 15" Screens in Replay/ENG  
 1x Lilliput 4K 17" Screens in Replay/ENG  
 8x Lilliput 4K 17" Screens in CCU/Remotes  
 4x Lilliput 4K 15" Screens in Tailboard

## AUDIO

LAWO mc<sup>2</sup>36 MK2 32 Fader Console w/Powercore Gateway - for Ravenna/MADI/Dante routing with 64ch external Dante network  
 DirectOut M1k.2 1024x1024 MADI Router  
 Waves SoundGrid Extreme X10 Server (integrated in LAWO)  
 A&H dLive Backup Console (C1500 + DM0)  
 Genelec Monitoring (Large + Small) in Audio Room  
 Genelec Monitoring Small in ENG, CCU & Graphics  
 LG Soundbars in Production Room  
 LAWO A\_stage64 External I/O + A\_mic8 1RU External I/O

## CAMERAS & LENSES

4x Panasonic AK-UC4000 SMPTE Camera Chains

- 4K or HD, 240fps Capable\*(HD Only), Rec709, V-LOG & HLG/BT.2020
- AK-UCU-600 CCU
- AK-HRP-1000 RCP Panel \*slow motion server required

Wired for additional 4x SMPTE Camera Chains (on request)

2x Fujinon UA107x8.4 4K Box Lenses  
 2x Fujinon UA46x9.5 4K Lenses  
 2x Fujinon UA22x8 4K Lenses  
 2x Fujinon UA13x4.5 4K Lenses

4x Panasonic AW-UE160 4K PTZ Cameras

- 4K or HD, 120fps Capable\*(HD Only), Rec709, V-LOG & HLG/BT.2020

1x Panasonic AW-RP150 Control Panel (PTZs & CX350)  
 2x Panasonic AG-CX350 4K Camcorders  
 2x Marshal CV504-WP Micro Cameras (3.6, 8 & 16mm Lens)  
 2x Marshal CV228-WP Lipstick Cameras (3.6, 8 & 16mm Lens)  
 1x Panasonic BGH1 Box Cinema Camera (14-55mm)

- Remote control of all small format cameras from truck CCU or Engineering Position
- Marshal Cameras are IP-67 Rated

All weather covers for Non IP rated cameras available.

## WIRELESS CAMERA SYSTEMS

Hollyland SYSCOM 421 4ch Wireless Video and Control System

- 4x HD video channels at 50fps or 60fps
- Camera Control from CCU via ethernet link

Other systems available on request.

## CAMERA SUPPORT

4x Sachtler Video18p Heavy Duty Tripods  
 2x Vinten HDT-1 Heavy Duty Tripods  
 2x Vinten Quattro OBL Pedestals  
 2x Vinten Vector 75 Heads  
 2x Vinten Scaffold Clamps  
 JimmyJib Lite Pro Super - 1.8m to 5.4m Length

## TELEPROMPTING

CueScript cueIT CueB system  
 2x 19" Cueing Monitors w/Glass + Hood  
 1x 10.4" Cueing Monitor w/Glass + Hood (for JIB)  
 2x 24" Talent Monitors

## COMMUNICATIONS

Riedel Artist 1024 frame

- Licenced for 64 ports (more available on request)
- 2x UIC Cards for Management
- 1x UIC Card for AES67/Comms Network
- 1x UIC Card for MADI integration

2318 SmartPanels at each Operating Location + Tailboard  
 20x Bolero Belt Packs  
 1x Bolero Antenna for truck coverage  
 4x Bolero Antenna for site coverage  
 4x NSAs for Camera and Tailboard 4-wire connections

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