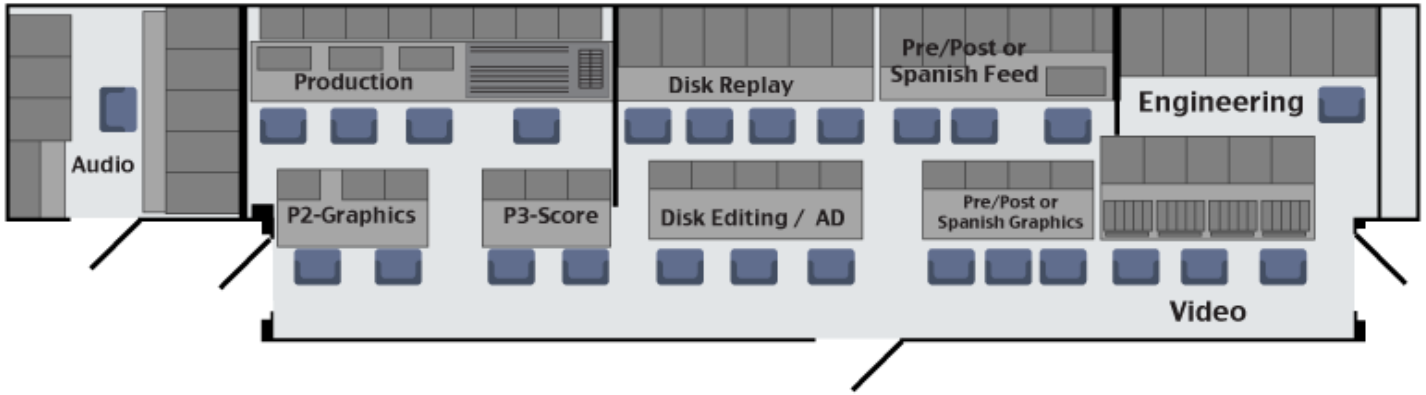
33HDX & 33VMU Equipment Specifications

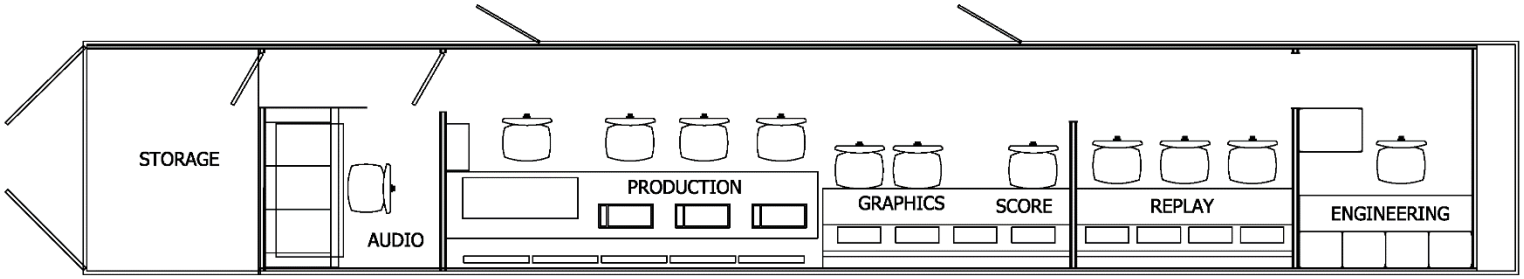
Unit A:

Length: 53' Height: 13'3" Width: 8'6" with ability to expand to: 13'8”



VMU-Unit B:

Length: 53' Height: 13’ Width: 8'6"



33HDX Equipment Specifications

Production

- Grass Valley HD Kayenne K-Frame switcher
- 7 M/Es, 96 inputs/48 outputs
- Internal Image Store
- 12 iDPMs, 2D DPMs, FlexiKey, DoubleTake
- 32 Chroma Keyers
- 4 Stripe (M/E) control panel
- Up to 90 images in production wall

Cameras/ Lenses & Support

- 5 Grass Valley LDX80 Premier 720p/1080i triax cameras
- 2 Grass Valley LDX80 Premier 720p/1080i SMPTE cameras
- 4 Grass Valley LDX86 universe super slow mo cameras (Upon request. Can be used as regular live camera)
- 6 Grass Valley 3G fiber converters (SHEDS)
- Canon UJ111X8.3B long lens
- Canon XJ95x8.6 long lens
- 5 Canon XJ76x9 long lenses
- Additional Canon XJ76x9 and Canon 72x9.3 long lenses if using VMU
- 4 Canon XA17x7.6 ENG lenses
- Canon HJ11x4.7 ENG wide angle lens
- Five 2" ENG VFs
- 2 Studio Config Kit LCD VFs
- Grass Valley LDK 8000 Elite triax camera with ENG lens with tripod (Booth)
- 7 Grass Valley RefleX SuperExpander long lens adapter
- 2 Additional Grass Valley RefleX SuperExpander long lens adapter if using VMU
- 7 Vinten Vector 75 heavy duty pan/tilt heads
- 2 Additional heavy duty pan/tilt heads if using VMU
- 7 Mathews MT1 heavy duty tripods
- 2 Additional heavy duty tripods if using VMU
- 5 Gitzo ENG tripods with Libec H85 pan/tilt heads
- 2 SD LPS clock cameras

Replay, Spotbox and Edit Systems

- Three 12 channel EVS XT3 full editing units
  - *One 12 channel for SSMO*
  - *One 12 channel an be split into 2 operator positions each with 4 inputs/2 outputs*
  - *One position uses LSM connect (No VGA)*
- 8 Channel Evertz Dreamcatcher for instant replay of two 6x SSMO cameras (With file transfer of clips to EVS network) 60 hours of record.
- 4 Channel EVS XS server for Spotbox (2 channel per show during dual feeds)
- Codecs supported:
  - *M-JPEG – User selectable bitrate 20-360Mbps*
  - *Avid DNxHD® (120/145Mbps)*
  - *Avid DNxHD® High Level (185/220Mbps, 8-bit and 10-bit)*
  - *VC-3 (SMPTE 2019-1; Avid-compatible) 100Mbps*
  - *Apple ProRes® 4:2:2 (120/145Mbps)*
  - *Apple ProRes® 4:2:2 HQ (185/220Mbps)*
  - *Apple ProRes® 4:2:2 LT (85/102Mbps)*
  - *MPEG-2 intra – User selectable bitrate 20-360Mbps*
  - *DVCPRO HD*
  - *AVC-Intra Class 100*
  - *XAVC-Intra Class 100*
- Lance TDC-100 Disk Controller
- XFile3 with USB 3.0
- Gig-E network available
- 3 DVD recorders/players
- Panasonic P2 Deck AG-HPD24P
- Up to 6 replay operator positions

Audio

- CALREC Artemis Beam Audio Mixer (48 fader) 256 routable inputs via MADI, 64 analog inputs/64 analog outputs
- Audio Board can output multiple channels of surround sound
  - *Encoders for transmitting surround sound are the clients responsibility*
- Enco Hotshot2 Audio Playout System
- CD Player
- 6 Sennheiser MKH 70 P48 long shotgun mics
- 11 Audio Technica AT4073A short shotguns mics
- Sennheiser MKH 416 short shotgun mic
- 10 Sennheiser MD 46 stick mics
- 6 Sony ECM77B lavaliers
- 6 Sony ECM55B lavaliers
- 12 Sennheiser HMD sportscaster headsets
- 9 Daltech talkback boxes
- Yamaha CL1 Audio Mixer
- RTW TM7 audio scope
- 6 DT12 Breakout Boxes
- 14 DT12 fanouts
- 6 Fostex portable speakers
- Fiber Booth Kit (Upon request)
- Parab dishes (Upon request)

Communications

- RTS ADAM-M Matrix System
- 80 analog ports, 16 ports of RVON
- 12 Channels of IFB
- 12 Channels of PL
- 15 RTS 4030 IFB beltpacks
- 20 RTS BP325 headset boxes
- 4 Telos One Interfaces
- 2 RTS TIF 2000As
- 16 Line phone system
- 6 Two-Way Radios with 2 base stations

Graphics

- VizRT
- For-A Telestrator with HD touchscreen

Engineering & Misc

- 198x480 Evertz 3G router
- 1296x1456 Evertz Audio Router
- Embedded audio, 18 MADI, 48 AES, 96x192 analog
- 21 Frame sync/cross converters
  - *2 AJA FS-HDRs, 1 AJA FS-4s, 2 AJA FS1-Xs, and 16 Harris X-50s for a total of 30 paths*
- TSI-3000 tally system with virtual tally
- 12 Utility cross converters
- 16 Channel embedded audio
- 2 Lighting Kits

Outboard Monitors

- Sixteen 15" Outboard HD LCD video monitors
  - *Capability to provide HD program to booth (If fiber is available)*

Cable

- 5550' Triax
  - *Five 500', Nine 250', Eight 100'*
- 400' 10 Line video mult
  - *Two 100', Two 75', Three 50'*
- 950' TAC Singlemode fiber
  - *One 300' TAC-12, One 150' TAC-12, One 100' TAC-12, One 100' TAC-6*
- 1900' SMPTE fiber
  - *Six 250', Three 100', Four 25'*
- 2050' DT12
  - *Four 250', Seven 150'*
- 225' Three phase power cable
  - *Set of 100', 75', and 50'*
- Additional cable available if shipped separately

Power Required

- 208 VAC, three phase, 200 amps
  - *Separate 200 amps of three phase 208 VAC may be required in high heat locations*

33VMU Equipment Specifications

The following equipment is available to the Visitor Feed in addition to 33HDX A Unit equipment. This trailer is fully networked to the A Unit with extensive fiber connectivity. All cameras and record trains are available to both trailers.

Production

- 3 Stripe Switcher Panel
- 2.5 M/Es assigned to visitor show
- Up to 48 images in production wall

Replay, Spotbox and Edit Systems

- XFile3 with USB 3.0
- 2 Channels of Spotbox from A Unit
- Lance TDC-100 disk control
- DVD recorder/player
- Up to 3 EVS operator positions

Audio

- CALREC Brio 36 (36 fader)
  - *24 Mic/line inputs*
  - *16 Analogue outputs*
  - *8 AES3 digital inputs, 8 AES3 digital outputs*
  - *8 GPI + 8 GPO*
  - *Loudness meters*
  - *Delay available on every path*
  - *Up to 96 legs assignable as mono, stereo, or 5.1 input channels*
  - *36 legs assignable as mono, stereo or 5.1 mains or groups*
  - *24 legs assignable as mono or stereo auxes*
  - *Up to 96 legs assignable as Insert sends and returns*
  - *Up to 96 legs assignable as Direct, or Mix-Minus Outputs*
  - *Every input channel and group path have expander/Gate/Ducker, with key input and sidechain EQ; a compressor with key input and sidechain EQ and multiband compressor*
  - *Every aux has expander/gate and compressor*
  - *Every main has a single band compressor and multiband compressor*
- 50 Mono channels, 38 stereo channels
- 16 Mono aux, 4 stereo aux
- 10 Stereo groups with Dynamics & EQ, 6 stereo busses
- Enco Hotshot2 Audio Playout System
- Digicart II with 320 Keyboard
- CD Player
- 4 Sennheiser MD 46 stick mics
- 5 Sennheiser HMD sportscaster headsets
- 3 Daltech talkback boxes
- 2 Sound devices MP- line amps

Communications

- RTS Intercom System integrated with A Unit
- RTS ADAM 48 port Matrix System
- 12 Channels of IFB
- 12 Channels of PL
- 6 RTS 4030 IFB beltpacks
- 9 RTS BP325 headset boxes
- 2 Telos Hx2 Digital Telephone Interfaces
- 2 RTS TIF 2000As
- 3 Two-Way Radios with base station

Graphics

- VizRT (Upon request)
- For-A Telestrator with HD touchscreen (Upon Request)

Engineering & Misc

- 2 Lighting Kits
- Grass Valley LDK 8000 Elite triax camera with ENG lens with tripod(Booth)

Outboard Monitors

- Four 15" Outboard HD LCD video monitors

Cable

- 700’ DT12
  - *One 250’, Three 150’*
- 225’ Three phase power cable
  - *Set of 100’, 75’, and 50’*
- Additional cable available if shipped separately

Power Required

- 208 VAC, three phase, 150 amps