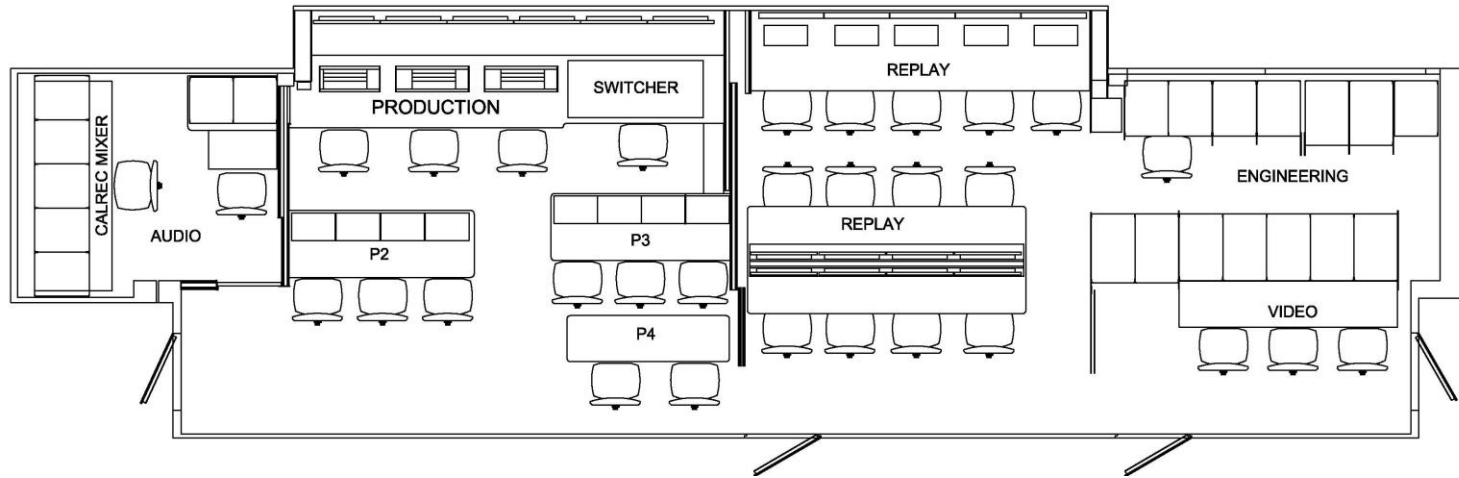


45 FLEX & 45 VMU Equipment Specifications

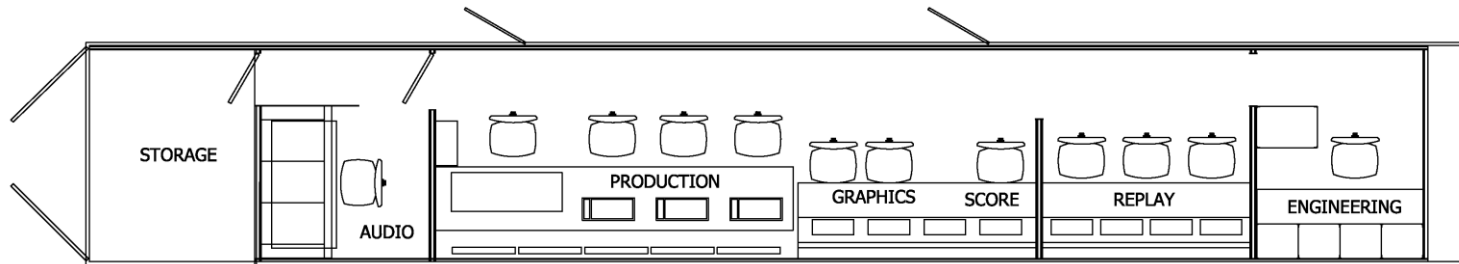
Unit A:

Length: 53' Height: 13'3" Width: 8'6" with ability to expand to: 16'6"



VMU-Unit B:

Length: 53' Height: 13'3" Width: 8'6"



45 FLEX & 45 VMU Equipment Specifications

[45 FLEX 360 Tour](#)

[45 VMU 360 Tour](#)

Production- 45 FLEX



Replay-45 FLEX



Audio- 45 FLEX



Production-45 VMU



Replay-45 VMU



Audio-45 VMU



45 FLEX Equipment Specifications

Production

- Grass Valley Kayenne K-Frame X IP 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 132 images in production wall
 - [Click here for monitor wall](#)

Cameras/ Lenses & Support

- 3 Grass Valley LDX82 Premier 720p/1080i fiber cameras with IP XCUs
- Additional LDX82 fiber camera with IP XCU if using VMU
- 3 Grass Valley LDX82 Premier 720p/1080i triax cameras with twin XCUs
- 4 Grass Valley LDX86 universe super slow mo HD/3G fiber cameras with IP XCUs (Upon request. Can be used as regular live cameras)
- Grass Valley LDK 8000 3G Elite triax cameras with Fujinon XA20sx8.5 ENG lenses with tripods (Booth)
- 8 Grass Valley HDX plus fiber converters (SHEDS)
- 2 Fujinon XA99x8.4 long lenses
- 5 Fujinon XA77x9.5 long lenses
- Additional Fujinon XA77x9.5 and Canon 72x9.3 long lenses if using VMU
- 2 Fujinon HA18x5.5 ENG lenses
- 2 Fujinon ZA17x7.6 ENG lenses
- Four 2" Color ENG VFs
- Studio Config Kit with LCD VF
- 7 Grass Valley RefleX SuperExpander Sleds with 7" OLED VFs
- 2 Additional SuperExpander Sleds with 7" OLED VFs 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 the VMU
- 4 Miller Arrow X7 ENG tripod/pan/tilt heads
- 2 HD LPS clock cameras

Replay, Spotbox and Edit Systems

- Four 12 channel EVS XT-VIA IP full editing replay servers with 16 channels of embedded audio
 - 4 SSMO, 16 HD inputs/12 HD outputs when truck is running in SSMO mode
 - 2 XT-VIAs can be split into two operator positions each with 4 inputs/2 outputs
 - 32 HD inputs/16 HD outputs when truck is running in HD mode
 - One position uses LSM Connect (No VGA)
- 4 Channel EVS XS VIA server for Spotbox (2 channels per show during dual feeds)
- Codecs supported:
 - XAVC-Intra class 300 and 480 codec for UHD-4K
 - DNxHR for UHD4K (available in Q4 2018)
 - XAVC-I, AVC-I, DNxHD and ProRes for HD/FHD
 - MJPEG and H.264 proxy onboard
- Lance TDC-100 Disk Controller
- XFile3 with USB 3.0
- XHUB-VIA IP 10G for server to server transfers
- 10G Network for XFile transfers
- Panasonic P2 Deck AG-HPD24P
- Up to 6 replay operator positions

Audio

- CALREC Artemis Beam Audio Mixer (64 fader) 256 routable inputs via IP, 64 analog inputs/64 analog outputs
- RTW TM7 audio scope
- Audio Board can output multiple channels of surround sound
 - Encoders for surround sound are the clients responsibility
- Enco Hotshot2 audio playout system
- CD player
- 8 Sennheiser MKH 416 short shotgun mics
- 6 Sennheiser MKH 70 P48 long shotguns mics
- 9 Sennheiser MD 46 stick mics
- 8 Sony ECM77B lavaliers
- 4 Crown PCC-160 Cardioid Microphones
- 7 Sennheiser HMD sportscaster headsets
- 6 Studio Technologies talkback boxes
- 3 Whirlwind MD-1 Mic/Line Drivers
- 4 Sound devices MP-1 line amps
- 3 Cloud CL-1 Mic activator
- 5 DT12 Breakout Boxes
- 14 DT12 fanouts
- 6 Fostex portable speakers
- Fiber Booth Kit (Upon request)

Communications

- RTS ADAM-M Matrix System
- 64 Ports of OMNEO, 32 channels of MADI, 48 analog ports
- 12 Channels of IFB
- 12 Channels of PL
- 12 RTS 4030 IFB beltpacks
- 18 RTS BP325 headset boxes
- 4 Telos Hx2 Digital Telephone Interfaces
- 4 RTS TIF 2000As
- 12 Line phone system
- 8 Two-Way Radios with 2 base stations

Graphics

- VizRT (Provided for Fox shows only)
- Chyron HyperX3
- Fox Box (Provided for Fox shows only)
- For-A Telestrator with HD touchscreen
 - 2 ST fibers required

Engineering & Misc

- 384 Port Evertz EXE 2.0 IP router with up to 9600GB/s
- 10,240x10,240 Evertz audio router connected via IP to CALREC
- Embedded audio, 18 MADI, 48 AES, 96x192 analog
- 11 Frame sync/cross converters with fiber inputs/outputs
 - 4 AJA FS1-Xs, 7 AJA FS-HDRs for a total of 32 paths
- TSI-4000 tally system with virtual tally
- 2 Lighting Kits

Outboard Monitors

- Sixteen 16" Outboard LCD video monitors
 - Capability to provide HD program to booth (If fiber is available)

Cable

- 1900' Triax
 - One 500', Three 250', Five 100'
 - One 6 line triax mults 150'
- 600' 10 Line video mult
 - Two 125', Four 75', One 50'
- 1650' TAC singlemode fiber
 - Four 300' TAC-12, Three 150' TAC-6
- 3200' SMPTE fiber
 - One 500', Six 250', Twelve 100'
- 2300' DT12
 - Five 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

45 VMU Equipment Specifications

The following equipment is available to the Visitor Feed in addition to 45FLEX 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 control panel
- 3 M/Es assigned to visitor show
- Up to 58 images in production wall

Replay, Spotbox and Edit Systems

- XFile3 with USB 3.0
- 2 Channels of Spot Box from A Unit
- Lance TDC-100 Disk Controller
- Up to 3 EVS replay operator positions
- One position uses LSM connect (No VGA)

Audio

- STUDER Vista 1 (32 fader)
- 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
- CD player
- 6 Sennheiser MD 46 stick mics
- 5 Sennheiser HMD sportscaster headsets
- 5 Studio Technologies talkback boxes
- Sound devices MP-1 line amp
- 3 Cloud CL-1 Mic activator

Communications

- RTS Intercom system integrated with A Unit
- 8 Channels of IFB
- 6 RTS 4030 IFB beltpacks
- 6 RTS BP325 headset boxes
- 2 Telos Hx2 digital telephone interfaces
- 2 RTS TIF 2000As from A Unit
- 2 Two-Way Radios with base station

Graphics

- VizRT (Upon request)
- Chyron HyperX3 HD with USB 3.0 (Upon request)
- For-A Telestrator with HD touchscreen (Upon request)
 - 2 ST fibers required

Engineering & Misc

- 2 LED Lighting Kits
- Grass Valley LDK 8000 3G Elite triax camera with Fujinon XA20sx8.5 ENG lens and tripod (For Booth)

Outboard Monitors

- Four 16" Outboard LCD monitors
 - *Capability to provide HD program to booth (If fiber is available)*

Cable

- 900' DT12
 - Six 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