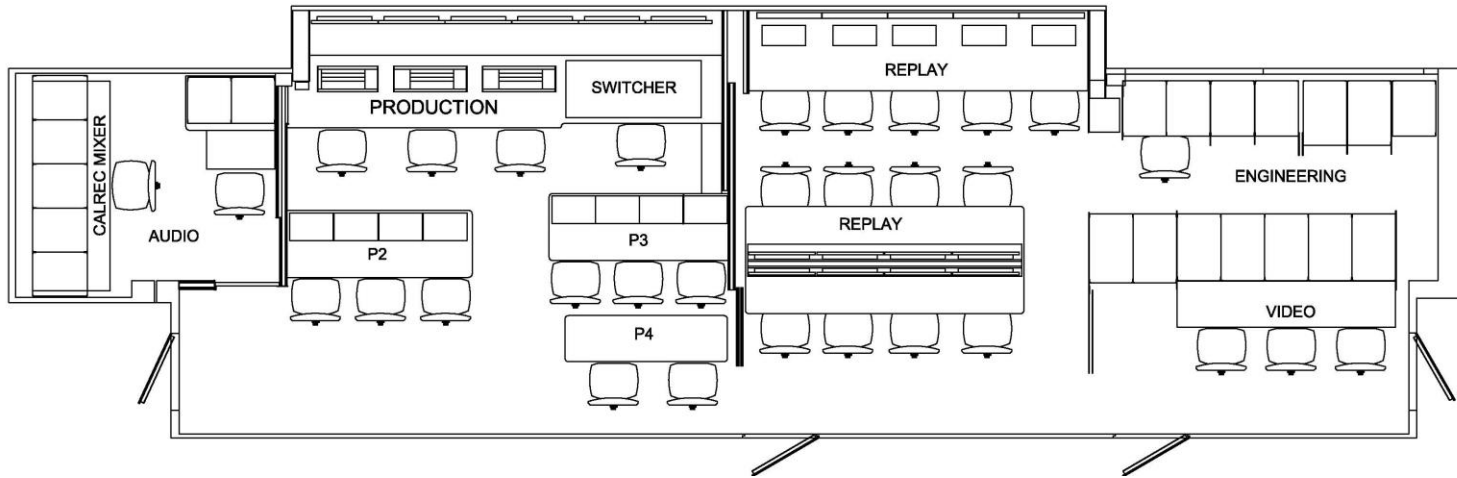


# 45 FLEX & 45 VMU Equipment Specifications

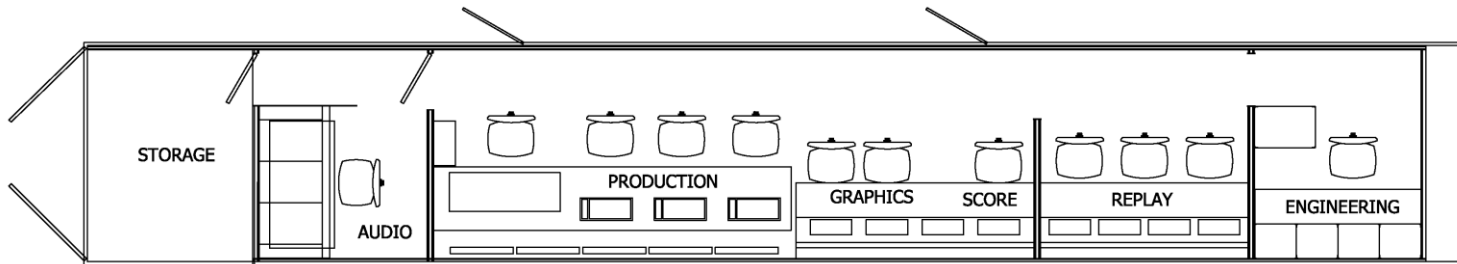
Unit A:

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 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

## 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)
- 3 Fujinon XA99x8.4 long lenses
- 4 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)
- Parab dishes (Upon request)

## Communications

- RTS ADAM-M Matrix System
- 64 Ports of OMNEO, 64 channels of MADI, 48 analog ports, 16 ports of RVON
- 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
- 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 belt packs
- 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)
- For-A Telestrator with HD touchscreen (Upon request)
  - 2 ST fibers required

## Engineering & Misc

- 3 Cross-converters with fiber inputs/outputs
  - 3 Aja FS1-Xs for a total of 3 paths
- 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