

MOBILE PRODUCTION UNIT

MAJOR FEATURES:

- All equipment in trailer supports video formats from Ultra HD down to SD (6G-SDI to SDI)
- Can be setup and broadcasting in less than an hour
- 20-Input, 2 Mix/Effects Engine switcher with 6 Aux outputs; 4 Upstream, 2 Downstream Keys
- Dual 40x40 Ultra HD video routing switchers
- High quality, calibrated Ultra HD video monitors with color-matched LED task lighting
- Five multi-viewers for monitoring of multiple video sources simultaneously
- Eight video recorders/players, plus computer video capture cards
- Audio booth with Genelec studio monitors and multi-band compression to optimize signal levels
- Seats up to eight (4-5 very comfortably)

VIDEO CONNECTIONS AND ROUTING

- Dual 40 Source to 40 Destination Ultra HD video routers, plus video patchbay
 - All video signals can be routed from any source to any destination
 - Any source can be displayed on any video monitor
- External cable runs use fiber optic connections:
 - 200-meter trunk cable carries 9+3 video feeds plus 8 VLAN Ethernet networks
 - Ten channels of bi-directional fiber optic capability, expandable
- External I/O panel allows access to video, network, audio connections

POWER SYSTEMS

- Very efficient: can be powered from just two 110V 15A circuits
 - No special power connections required!
- 400W of Solar panels to augment external power
 - Provides up to 50% of power used to run electronics
- Battery capacity is a minimum of 45 minutes of runtime (no A/C)
 - Automatic failover from AC power to battery
- Can be run from a single 5000-7000W generator

NETWORKING

- Eight virtual LANs on a gigabit network, including public Internet, private, and Dante
- All VLANs are sent over fiber trunk to breakout box
- Internet streaming capabilities built-in
- Redundant Internet access capabilities, including built-in carrier-agnostic cellular
- Load balancing with automatic failover



COMPUTING

- Five Windows computers featuring Intel i5 processors and large SSDs
 - Additional laptops/tablets available
- Windows Storage Server with removable drive bays
 - GTX 1050 Ti graphics
 - Blackmagic Design SDI capture card
 - Davinci Resolve software
- Touch screens on most computers
- Dual monitor (computer plus video) capability at most stations

COMFORT AND QUIET

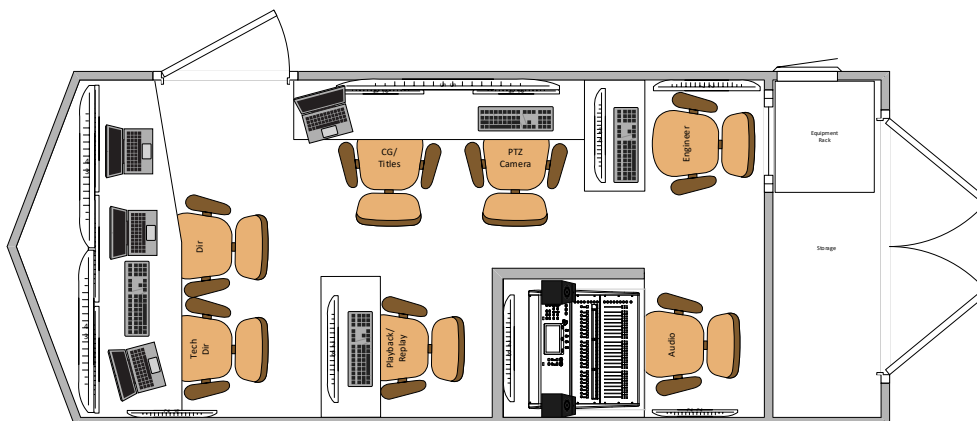
- Carpeted walls and floor for comfort and quiet
- Double walls (7 total layers) to isolate from outside noise and temperatures
- Insulated floor and ceiling
- Air conditioning to keep crew comfortable and equipment running properly

CAMERAS AVAILABLE ON-BOARD

- Sony PXW-Z150 4K (3)
- Sony PXW-X70 4K (1)
- Sony SRG-300SE Pan/Tilt/Zoom HD cameras (2)
- Sony HXR-MC2500 HD (1)
- Blackmagic Design Ursa Mini 4K (1) with wide lens selection
- Blackmagic Design Micro Studio Camera 4K (1)
- Other small 4K camcorders and action cameras 4K

EXTREMELY COMPETITIVE RATES!

- Trailer and engineer are just \$1500 per day (introductory rate) – less than half of competition!
- Cameras \$75-250/day (\$125 typical); operators \$300-500/day (\$400 typical)
- Rate estimation tool available at <https://djp.li/calc>



FRONT DESK

INTENDED FOR:

- Technical Director
- Director
- Overflow, if all other stations are occupied

FEATURES

- Five high quality, calibrated Ultra HD monitors, routed from any source
- Surface Pro 2 computer for controlling switcher and other gear
- 24" Touch-screen Full HD monitor for Surface Pro 2
- X-Keys XK-128 controller
- Intercom at all three seating positions
- Two-way radio with 5+ mile range for communication with crew not on intercom
- Telephone
- High quality speakers
- Large Internet-synchronized clock
- USB charging ports
- Switchable task lighting, color-matched to monitors

PHASE 2 UPGRADES

- HyperDeck Studio Mini video recorder(s)
- Enhanced intercom capabilities (full audio processing; matrix)
- Audio mixer to combine multiple audio sources for built-in speakers

PHASE 3 UPGRADES

- Hardware switcher control panel



INSTANT REPLAY DESK

INTENDED USES:

- Slow-motion instant replay, primarily for sporting events
- Video playback
- Desk for producer
- Assistant Technical Director

FEATURES

- 28" Ultra HD monitor with 16-channel multiviewer source
- Four Ultra HD video recorder/playback units, expandable
- Secondary X-Keys XK-80 switcher control panel
- Dedicated Windows computer
- Jog/Shuttle controller
- Intercom
- Dual SDI inputs for other video sources
- Switchable task lighting, color-matched to monitors
- Easily removable if extra space is required

BACKUP STATION FOR:

- Producer Desk
- Graphics
- Robotic PTZ Camera Control
- Assistant Technical Director (e.g. 2nd M/E)

PHASE 2 UPGRADES

- Additional channels of instant replay capability



AUDIO BOOTH

INTENDED USES:

- Create proper audio mixes for recording/streaming
- Audio playback

FEATURES:

- Sixteen channels of audio patched in from camera source
- Digital audio mixer with compressor, effects
- Excellent Genelec 8010A studio monitors
- Patchbay for audio routing capabilities
- 6-Band Multi-band compressor to maintain ideal audio output levels
- Two channels of wireless microphone receivers
- Control surface for full control of remote Behringer/Midas audio mixer
- 28" Ultra HD video monitor, routable from any source
- Dedicated Windows computer
- 22" Touch screen Full HD monitor
- Up to 16 channels of audio level/phase monitoring
- SDI video input/output
- Intercom
- Switchable task lighting, color-matched to monitors

BACKUP STATION FOR:

- Director/Technical Director
- Robotic PTZ Camera Control
- Graphics

PHASE 2 UPGRADES:

- Full Dante capability (already pre-wired)
- Yamaha TF3 audio mixer, Dante-based stage box
- Second patchbay for routing of additional channels
- External antennas for wireless microphones, IFB, in-ear monitors





DOUG JOHNSON PRODUCTIONS

CG/GRAPHICS

INTENDED USES:

- Graphic generation
 - Full-screen Slates
 - Lower Thirds
 - Sports Scores
- Video playback
- Video capture to computer

FEATURES:

- Thunderbolt 4K video capture/playback interface, compatible with both Windows and MacOS; separate fill+key capable
- HDMI video input
- SDI video input/output
- Ultra HD video monitor, routable from any source, or local Mini DisplayPort input
- Windows or MacBook Pro computer available
- Large 55" monitor displaying 7 routable video sources
- Intercom
- Switchable task lighting, color-matched to monitors

BACKUP STATION FOR:

- Video layout

PHASE 2 UPGRADES:

- Dedicated computer
- Audio studio monitors



PTZ CAMERA CONTROL

INTENDED USES:

- Remote control of robotic Pan/Tilt/Zoom cameras
- Media management

FEATURES:

- Designed for controlling 4+ remote Pan/Tilt/Zoom robotic cameras
- Custom camera control software uses Xbox controller
 - Ultra-fine control of camera movements down to 0.1°/second
 - Unlimited camera location presets
 - Unlimited recordable, repeatable camera moves
 - Full control of all camera options (exposure, white balance, coloring, etc.)
- HDMI video input
- SDI video input/output
- Dedicated Windows computer
- 24" Touch screen Full HD monitor
- Large 55" monitor displaying 7 routable video sources
- Intercom
- Switchable task lighting, color-matched to monitors

BACKUP STATION FOR:

- CG/Graphics
- Video playback

PHASE 2 UPGRADES:

- Additional custom software capabilities



ENGINEERING

FEATURES:

- Central location for/access to virtually all video equipment
- 27" Ultra HD monitor, routable from any source
- Dual video scope monitors (Waveform, vectorscope, parades, audio level/phase)
- Real-time 3D LUT generation/video coloring
- Intercom
- Seven SD card video recorders (with separate fill+key playback capability)
- SSD video recorder
- Two-way radio with 5+ mile range, integrated into intercom
- Redundant Internet connections with load balancing, cellular backup
- Windows Server computer with capture/playback card, removable storage
 - Davinci Resolve Editing/Coloring
- 22" Touch screen Full HD Monitor
- Eight separate VLAN networks, gigabit speeds
- Switchable task lighting, color-matched to monitors

BACKUP STATION FOR:

- Technical director
- Video playback
- Robotic PTZ Camera Control

PHASE 2 UPGRADES

- Intercom replacement with high-quality audio mixer
- RTS/Clear Com intercom interfaces
- Telephone <-> Intercom bridge for remote crew

PHASE 3 UPGRADES

- Camera exposure/shading control, connected to cameras through custom interface device

