



23' COMBO MOBILE PRODUCTION & TRANSMISSION SPRINTER VAN

Hybrid Satellite IP & Bonded Cellular Streaming Capabilities

PMTV-1F80A

TECHNICAL DATA SHEET

PRODUCTION

- NewTek TriCaster 860 Advanced Edition Production Switcher w/ NDI
- 8 Live Video Sources
- 8 IP Sources
- ISO Recording of all 8 Virtual Camera Inputs, Simultaneously
- HD-SDI, HD Component, SD-SDI, SD Component
- 8 Virtual Inputs
- 4 Primary DSK Channels & Dedicated Upstream Overlay per Virtual Input
- NewTek TriCaster Live Control Surface Switcher Panel

CAMERAS – LENSES – SUPPORT

- Wired for (8) Cameras
- 2 – Sony PXW-X320CE Cameras: 16x Lens, 18x Lens w/ 2x Extender
- 3 – Sony PXW-X200 Cameras: 17x HD Lenses
- Camera Controls (Iris, R,B, White Balance) - *Tablet Based IP*
- 2 – 10" HD Monitors w/ Sony Adapters - Camera Studio Kits
- 3 – 7" HD Monitors w/ Sony Adapters - Camera Studio Kits
- 4 – Pro Zoom/Focus Controllers
- 4 – Manfrotto 535 Tripods & 503HDV Fluid Heads
- *Additional Equipment Available Per Client Request:*
- 3 – Sony HXR-NX5U NXCAM Digital HD Cameras
- 1 – PTZOptics Camera w/ Controller & 20x Lens

REPLAY – RECORD – ISO RECORD

- NewTek 3Play 425 w/ Control Surface Controller: 4x2 I/O -OR- 4x1 I/O
- 4 ISO Record Channels
- Blackmagic Design HyperDeck Studio 2 Recorder/Player
- Panasonic AG-HMR-10 SDCard Recorder - HD AVC Video (720p or 1080i)
- 180-Min Record in PH Mode 1920x1080 Pixels, 32GB SDHC Memory Card

GRAPHICS

- NewBlueFX Broadcast 3 16-Channel Graphics System - *Multi Ch. on NDI*
- SportzCast Scoreboard Controller - Score Data Capture
- *Per Client Request – Sports Only:*
- AJT LiveBook GFX NDI ScoreBug System - *ESPN Compliant (Xpression)*

WIRELESS VIDEO SYSTEM

- 2 – Teradek Bolt Pro 2000 3G-SDI/HDMI Wireless Video Transceivers

TERMINAL ROUTING

- Blackmagic Smart Videohub CleanSwitch 12x12 I/O Router
- Blackmagic Teranex Express SD/HD/UHD Up & Down Converter

BACKUP – REDUNDANCY

- 3 – UPS Battery Backup Systems - *20Min Run Time for All Electronics*
- 1 – Blackmagic Studio HD LIVE Production Switcher (Cameras 1, 2, 3 & Replay) - *Used as Backup*

AUDIO

- Yamaha TF1 32-Channel Digital Audio Mixing System w/ Dante Software
- 3 – Sennheiser HMD 25-1 Super-Cardioid Dynamic Headset Microphone
- 2 – Sony PGXD4 2-Channel Digital Lapel Wireless Mics
- 1 – CTP Systems DCD2020 Dante Commentary Boxes (2+1 Commentators)
- 1 – 350' 8-Channel Rapco Audio Snake - XLRM to XLRFM
- 2 – 75' 4-Channel Rapco Audio Snakes - XLRM to XLRFM
- Wireless IFB 4-Channel Listening System
- *Various Wireless Microphones: Handhelds, Lapel, Shotguns etc.*

COMMUNICATIONS

- Studio Technologies 32-Channel Intercom System w/ Beltpacks & Clear-Com Interface - 2/4 Channels
- Studio Technologies 8-Channel Dante Intercom Producer Station
- Eartec ComSTAR Digital 2-Channel Wireless Intercom System w/ Clear-Com Interface (Two User Systems)
- Eartec Scrambler SC-1000 Simplex Wireless PLUS 2-Way Radios w/ Clear-Com Interface (Two User Systems)
- JK Audio AutoHybrid Interface

LIGHTING KIT

- Smith-Victor SL300 3-Light 1800-Watt Softlight Location Kit (401405)

FIBER

- All Fiber is LC to SC Connectors
- AJA FiDO-2T 2-Channel Transmitter/Receiver- SD/HD/3G SDI Optical Fiber
- 1 – 500' 8-Channel Tactical Fiber Cable w/ LC Connectors
- 3 – 500' 4-Channel Tactical Fiber w/ LC Connectors

CABLES

- 8 – 250' Camera Cables w/ Video, Com, Power & Camera Control
- 1 – 150' Camera Cables w/ Video, Com, Power & Camera Control
- 1 – 2500' HD BNC to BNC Video Cables
- 1 – 2000' XLR Audio Cables
- 1 – 1000' Opticon Internet Cables
- Cat5 Ethernet Cables - *Various Length*
- *Various Converters, Adapters & Interface Boxes*

SPECIALTY EQUIPMENT

- 22' Octagon JIB w/ Remote Head & Controls- 45 Lb. Capability
- Glidecam Dual Support Arm Stabilizer Vest System
- 10' Utility Trailer

POWER REQUIREMENTS – CHASSIS SPECIFICATIONS

- 2014 Mercedes-Benz 2500 Sprinter Van
- Working Footprint: 23' L, 6'6" W, 9' H
- 2 – Edison Connectors, 15 Amp, 110V Ind. Connections (Shore Power)
- 2 – Generators for Independent Power: (1) Primary, (1) Backup

ALL MOBILE UNITS INCLUDE STAFF ENGINEERS.

ADDITIONAL EQUIPMENT IS AVAILABLE PER CLIENT REQUEST. CONTACT PMTV'S ACCOUNT EXECUTIVES FOR PRICING & AVAILABILITY.



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TECHNICAL DATA SHEET

SATELLITE IP & BONDED CELLULAR CAPABILITIES

- Live Streaming & Live TV Transmission
- Video Coding: HEVC (H.265), AVC (H.264) High Profile Compression
- Bandwidth: Up to 10-Meg Throughout - Satellite & Cellular Combined
- HD 1080i: 5-Meg to 7-Meg
- HD 720p: 4.5-Meg
- HD 1080i Streaming: 5-Meg
- HD 720p Streaming: 3-Meg to 4.5-Meg
- Dual HD 720p Streaming: 2-Meg to 4-Meg - Each Stream
- Temporary Internet Access
- Emergency Response Vehicle for Command Center

OPTION 1: LIVEU LU200 ENCODER

- **LiveU LU200 Encoder H.264 AVC Audio/Video Encoder**
- Audio/Video Encoder, Cellular & Wireless Modems, Internal Battery
- HW Interfaces: 3G/HD/SD-SDI, HDMI 1.4
- Formats: 1080p50/60/25/30/24, 1080i50/60, 720p50/60/25/30/24, PAL, NTSC
- Video Encoder: H.264 AVC High Profile
- Audio Encoder: AAC-LC
- Video Transport: RTP
- LiveU LU2000 Bonded Transceiver Server For Receiving Transmission - *Per Client Request*

OPTION 2: TERADEK BOND II BONDED CELLULAR

- **Teradek Bond II Integrated SDI Cellular Bonding Solution**
- Audio/Video Encoder, Cellular & Wireless Modems, Internal Battery
- HW Interfaces: 3G/HD/SD-SDI
- Formats: 1080p50/60/25/30/24, 1080i50/60, 720p50/60/25/30/24, PAL, NTSC
- Video Encoder: H.265 HEVC AVC & H.264 AVC High Profile
- Audio Encoder: AAC-LC
- Video Transport: RTP and/or MPEG-TS
- Antenna System:
- Enhanced Support for All Common Wireless Frequencies Including LTE
- Fully Customized High Gain Roof Mount Antenna Arrays - 7 Cellular Modems
- Benefits Video Quality, Resiliency, Coverage, Operation in Areas of Poor Coverage, On-The-Drive, Remote Locations & In Crowded Areas

OPTION 3: KU-BAND IP SATELLITE TRANSMISSION

- **Ku-Band IP Used for Occasional Use Backup, Supplemental or Main Bandwidth**
- 1.2M Vehicle-Mounted VSAT Antenna
- 6W Ku-Band Extended Block Up-Converter (13.75GHz ~ 14.5GHz)
- Ku-Band PLL Low Noise Block Downconverter (11.70GHz ~ 12.20GHz)
- iDirect Evolution X5 Remote Satellite Modem Router
- Dual-Mode Operation: iNFINITI TDM -OR- DVB-S2/ACM Outbound
- 4-Meg x 2-Meg Up/Down (2x2 Standard)

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