

SHOWTECH PRESENTS

BLACKBIRD

12G / 4K MOBILE PRODUCTION UNIT

**12G / 4K**

END-TO-END

120 × 120

12G ROUTING

4 + 1 + 4

WIRED + WIRELESS + ROBOTIC

10

OPERATOR POSITIONS

MOBILE UNIT

Physical, Power & Environmental

Purpose-built all-aluminum mobile production facility with integrated power protection and climate control.

14,000 lb

UNIT WEIGHT

100A

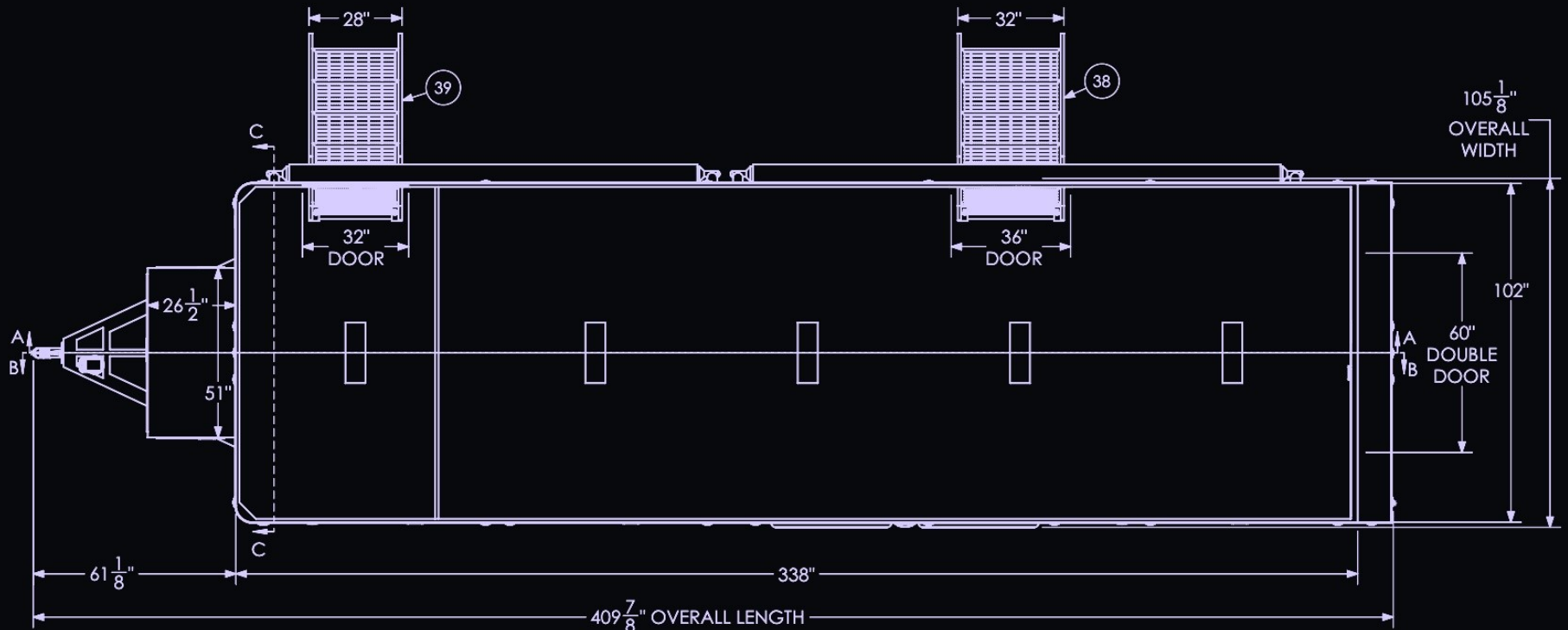
SINGLE-PHASE POWER

45,000 BTU

TOTAL HVAC

≈30 min

CRITICAL-GEAR UPS



DIMENSIONS

- 28 ft 2 in body length
- Approx. 34 ft 2 in overall length
- Approx. 8 ft 9 in overall width
- 11 ft 4 in overall height
- 7 ft interior height

FACILITY

- All-aluminum frame
- Dual electric awnings
- Underbody LED lighting
- LED-lit belly bays
- Perimeter work lighting

POWER & HVAC

- 100A single-phase service
- UPS backup for all critical systems
- 2 × 18,000 BTU production HVAC
- 1 × 9,000 BTU audio-room HVAC
- 14 in approximate ground clearance

PRODUCTION SYSTEMS

Video, Cameras & Recording

A fully integrated 12G-SDI / UHD production workflow built for live broadcast, streaming and live-to-record production.



CORE PRODUCTION

- ATEM Constellation 8K switcher
- ATEM 4 M/E control panel
- Videohub 120 × 120 12G router
- 3 × Teranex AV standards converters
- 2 external + 4 switcher 16-way multiviewers
- 3 × quad-split multiviewers

CAMERA PACKAGE

- 4 × SMPTE URSA Broadcast G2 - wired for 8
- 1 × wireless URSA Broadcast G2
- Teradek Ranger 5000 12G
- 4 × Panasonic UE150 robotics
- 4 × Panasonic ROP shading controls

RECORDING & REPLAY

- 8 × HyperDeck Studio 4K Pro
- Atomos Shogun Studio: 8 × HD or 2 × 12G/4K records
- vMix replay: 4 record / 2 playback channels
- 2 × ProPresenter systems
- 1 × Titler Live graphics system

MONITORING & LENSES

- 9 × 43-inch production displays
- 11 × 15.6-inch 4K broadcast monitors
- 2 × Fujinon 30× lenses
- 2 × 33× lenses
- 2 × wide-angle lenses

INTEGRATED WORKFLOW

Audio, Comms, Transmission & Field Connectivity

Dedicated broadcast audio, IP communications, resilient transmission and high-density remote stage connectivity.



BROADCAST AUDIO AND CAMERA CONTROL

BROADCAST AUDIO

- Yamaha DM7 with broadcast package and control expansion
- Dante, MADI and AES connectivity
- 2 × Yamaha 16-in / 8-out Dante stage racks
- 8-channel CEDAR Dante processing
- JoeCo Dante multitrack recorder
- Sonifex 16-channel Dante embed / de-embed

INTERCOM

- Green-GO 32-channel IP communications
- Clear-Com Arcadia platform
- 10 × FreeSpeak II wireless beltacks
- Integrated wired and wireless production communications



ENGINEERING, ROUTING AND SYSTEMS MONITORING

TRANSMISSION & NETWORK

- 2-channel Teradek Prism encoding
- 1-channel Teradek Prism decoding
- SRT and RTMP workflows
- Bonded cellular connectivity
- Starlink connectivity
- Netgear AV Line switching and routing

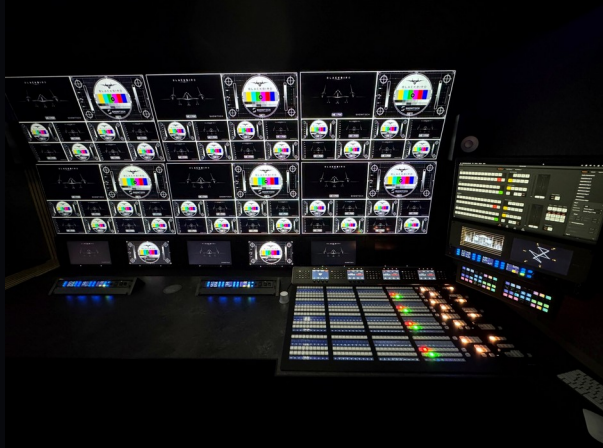
REMOTE STAGE SYSTEMS

- 2 × remote stage rack packages
- Each rack: 8 × 8 channels of 12G-SDI
- Each rack: 24-port network switch
- Each rack: 7 ST fiber connections
- Single MPO fiber trunk per rack
- 2 × 8 × 8 12G-SDI fiber mux systems

CAPABILITY SUMMARY

Systems Inventory & Operator Positions

A compact overview of Blackbird's principal production systems and staffed work areas.



PRODUCTION CONTROL AND MULTIVIEW MONITORING



ATEM 4 M/E CONTROL AND AUXILIARY INTERFACE

VIDEO & CAMERAS

- ATEM Constellation 8K + 4 M/E panel
- 120 × 120 12G routing
- 4 × SMPTE URSA cameras - infrastructure for 8
- 1 × wireless URSA Broadcast G2
- 4 × Panasonic UE150 robotic cameras
- 12G fiber and remote stage integration

RECORD, PLAYBACK & GRAPHICS

- 8 × HyperDeck Studio 4K Pro
- Atomos Shogun Studio
- vMix multichannel replay
- 2 × ProPresenter playback systems
- Titler Live graphics
- Teradek Prism contribution encoding

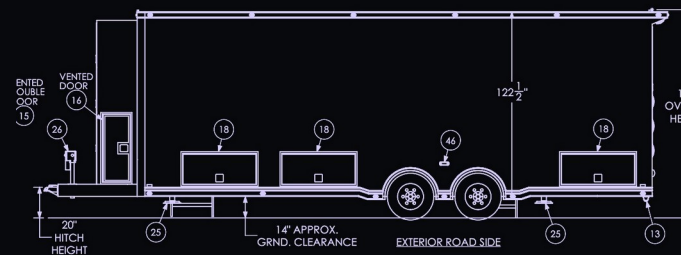
PRODUCTION ROOM - 8 SEATS

- Engineer-in-charge
- Video / shading
- Technical director
- Director
- AD / producer
- Graphics
- Playback / replay
- Robotic camera operator

AUDIO ROOM - 2 SEATS

- A1 broadcast mixer
- A2 / communications
- Dedicated Yamaha DM7 environment
- Separate audio monitoring and control
- Total staffed capacity: 10 operator positions

BLACKBIRD • FULL 12G / 4K PRODUCTION • SHOWTECH



EXTERIOR PROFILE • APPROX. 11 FT 4 IN OVERALL HEIGHT

BLACKBIRD

MULTIVIEWER WORKSHEET

SHOW / EVENT

DATE

1 FULL SCREEN OR MULTIVIEW	2 FULL SCREEN OR MULTIVIEW	3 FULL SCREEN OR MULTIVIEW			
4 FULL SCREEN OR MULTIVIEW	5 FULL SCREEN OR MULTIVIEW	6 FULL SCREEN OR MULTIVIEW			
7 FULL SCREEN OR MULTIVIEW	8 FULL SCREEN OR MULTIVIEW	9 FULL SCREEN OR MULTIVIEW	10 FULL SCREEN OR MULTIVIEW	11 FULL SCREEN OR MULTIVIEW	12 FULL SCREEN OR MULTIVIEW

PRODUCER

DIRECTOR

TECHNICAL DIRECTOR

NOTES / CONFIGURATION

Each monitor may be full-screen or divided into four quadrants.
Each quadrant may display one full source or an additional four-window quad.