

2 M/E KULA Production Switcher



2 M/E 24 & 16 Crosspoint Panels, 2 RU Frame — Switchable to 1 M/E 4K UHD



2 M/E 16 crosspoint control panel



2 RU Kula Frame

KEY FEATURES

- 2 M/E (1 M/E / program / preview) production switcher
- 2 RU frame supporting:
 - 36 inputs
 - 12 assignable outputs
 - 6 input or output bidirectional ports
- 4 keyers per M/E
 - 4 full effects keyers with lin/luma
 - 4 assignable DVE engines (will give 8 independent boxes)
 - Chromakeys available on all keys
 - Transition keyer with dedicated ClipStores for key & fill
 - Mask generator per keyer
 - Separate wipe generator
 - Matte generator
- 2 Sub M/Es background with 2 keyers*
 - 2 lin/luma keys
 - 1 assignable 2.5D DVE engine per Sub M/E
 - Chromakeys available on all keys
 - Use on any output or use within any M/E for more keying power
- Large internal ClipStore with 10 outputs holding 2 minutes of uncompressed HD video and audio content that is totally routable
- 4 floating resizing down stream keyers/mixing aux outputs without using M/E or Sub M/Es
- 8 channels of FormatFusion3 or FormatFusion4 assignable of any input/output or bus*
- Fully flexible internal multiviewer with configurable 4 heads and 16 tiles
 - Option to reallocate M/E 2 as a second multiviewer with up to 12 tiles across 1-4 heads
- Control:
 - 66 GPI/Os
 - 2x RS-422 ports
 - 3 Ethernet ports for control panel and TCP/IP protocols
 - USB ports for user/clip/system files import, export and backup
- New control panel design with clear OLEDs, RGB push buttons and shaft encoders for quick and granular control. Sophisticated macro recall and edit capability
- Clearly labeled control panel with separate mnemonics for source, key and macro names
- Instant delegation buttons for macros or key and aux bus control
- T-bar with direction strip indicators
- 16 and 24 crosspoint button panel models available for easy operation
- Can be expanded by connecting other Kahuna Maverik modules

* Sub M/Es functionality shared to be either Sub M/Es or FormatFusion3 or FormatFusion4 engines. The 2 M/E and 3 M/E Kula will support 4K UHD, however at the same feature specification as the 1 M/E 4K UHD Kula.

2 M/E KULA Production Switcher

SPECIFICATIONS

TV Standards

2.97 Gb/s Video Standards (3G/1080p)

1080p60 SMPTE ST 424
1080p60 SMPTE ST 425/Level A
1080p60 SMPTE ST 425/Level B
1080p59.94 SMPTE ST 424
1080p59.94 SMPTE ST 425/Level A
1080p59.94 SMPTE ST 425/Level B
1080p50 SMPTE ST 424
1080p50 SMPTE ST 425/Level A
1080p50 SMPTE ST 425/Level B

1.485 Gb/s Video Standards (HD)

1080i60 SMPTE ST 274(4), SMPTE ST 292(D)
1080i59.94 SMPTE ST 274(5), SMPTE ST 292(E)
1080i50 SMPTE ST 274(6), SMPTE ST 292(F)
1035i60 SMPTE ST 260, SMPTE ST 292(A)
1035i59.94 SMPTE ST 260, SMPTE ST 292(B)
1080PsF30
1080PsF29.97
1080PsF25
1080PsF24
1080PsF23.976
1080p30 SMPTE ST 274(7), SMPTE ST 292(G)
1080p29.97 SMPTE ST 274(8), SMPTE ST 292(H)
1080p25 SMPTE ST 274(9), SMPTE ST 292(I)
1080p24 SMPTE ST 274(10), SMPTE ST 292(J)
1080p23.976 SMPTE ST 274(11), SMPTE ST 292(K)
720p60 SMPTE ST 296(1), SMPTE ST 292(L)
720p59.94 SMPTE ST 296(2), SMPTE ST 292(M)
720p50 SMPTE ST 296(2), SMPTE ST 292(M)

270 Mb/s Video Standards (SD)

576i 16:9
576i 4:3
480i 16:9
480i 4:3

Reference

Analog genlock high-definition tri-level syncs signal or SD 1V blackburst

Frame

Video Signal Inputs

36, SD/HD/3G-SDI:SD/HD/3G (270 Mb/s / 1.485 Gb/s / 2.97 Gb/s)
Serial digital interface: As REC601/ SMPTE ST 292 / SMPTE ST 424 via BNC connectors

Video Signal Outputs

12 SD/HD/3G-SDI: Assignable via BNC connectors

Video Bidirectional Ports

HD/SD/3G (270 Mb/s / 1.485 Gb/s / 2.97 Gb/s)
Serial digital interface: As REC601/SMPTE ST 292/SMPTE ST 424 via BNC connectors
6 bidirectional ports

Genlock

Genlock reference 2 off analog sync via BNC connectors

Control Interfaces

66 GPI Tally/GPO outputs: Assignable GPI/GPO Isolated contact closures via 3x 25-way D-Type. Assignable as GPI or GPO
16 10/100/1000base-T: 3x RJ45 Ethernet connectors fixings
2 RS-422 control ports
2x USB

Power

Kula frame: Auto sensing 100-250 VAC Power supply 50/60 Hz nominal. Two fully independent hot swappable PSU modules, with separate mains power feeds via 2x 13A IEC - 320-C14 socket
Power consumption: <400W
Temp range: 5 to 40°C (41 to 104°F), noncondensing operating

Mechanical

Frame

2 RU
Height: 87 mm (3.42 in.)
Depth: 604.8 mm (23.81 in.)
Weight: Approx. 14 kg (30.3 lbs.)

Kula Control 2 M/E 16 Crosspoint Panel

Width: 834 mm (32.83 in.)
Depth: 279.6 mm (11.0 in.)
Height: 64.7 mm (2.55 in.), 123.3 mm (4.86 in.) total height including T-Bar
Weight: Approx. 7.5 kg (16.52 lbs.)

Kula Control 2 M/E 24 Crosspoint Panel

Width: 994 mm (39.13 in.)
Depth: 279.6 mm (11.0 in.)
Height: 64.7 mm (2.55 in.), 123.3 mm (4.86 in.) total height including T-Bar
Weight: Approx. 9.2 kg (20.28 lbs.)