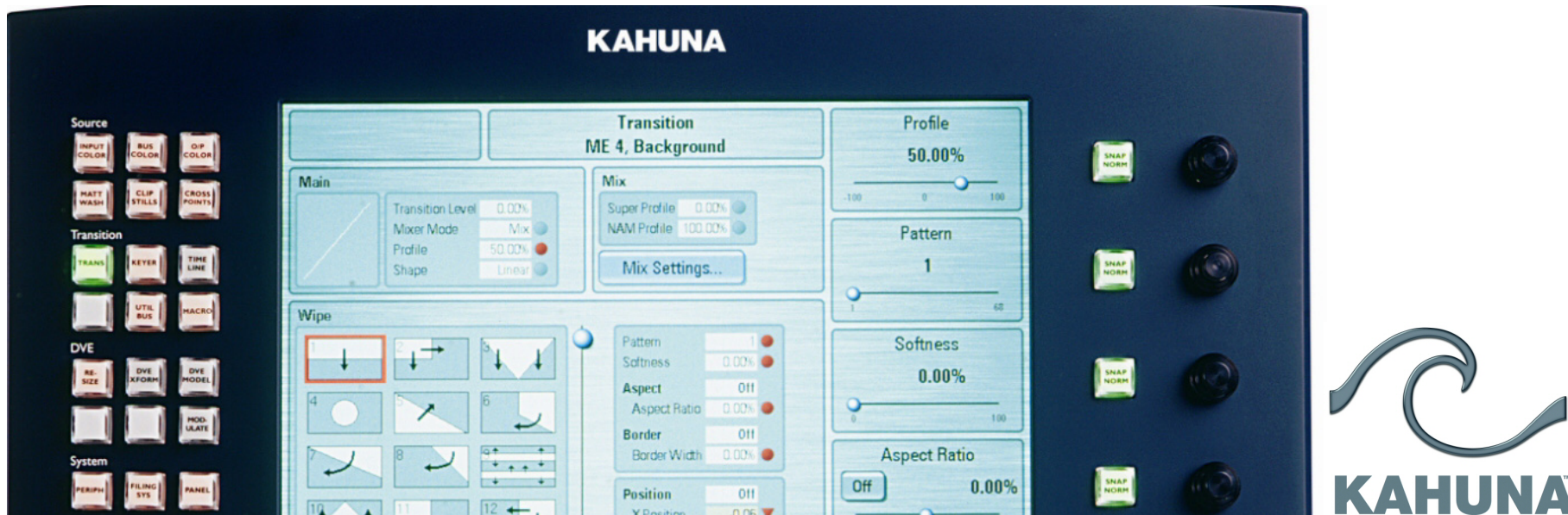


# KAHUNA



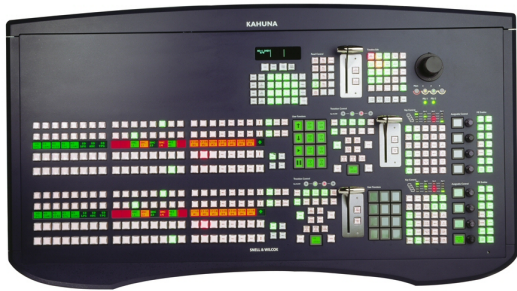
CREATIVE  
TECHNOLOGY



Offering breakthrough multiformat performance, Kahuna is the world's first production switcher to enable simultaneous standard and high definition operations in the same mainframe, on the same control surface.

Powered by Snell & Wilcox's exclusive FormatFusion signal processing technology, Kahuna breaks the video format barrier enabling seamless real-time mixing of SD and HD video, in any format, without compromise or loss of quality. Designed for live mobile, studio and news production, Kahuna offers a familiar user interface while delivering superior multiformat picture quality in a busy, fast-paced, live production environment. Never before has such advanced and innovative signal processing technology been combined in a single, versatile production switcher.

FormatFusion enables Kahuna to offer total format freedom with any broadcast format for inputs and outputs. Any of the 80 inputs are free to be assigned to be SD or HD with no restriction. Working as a part of each M/E, this provides flexibility to create powerful compositions made up of SD and HD sources, plus provide SD and HD outputs. FormatFusion completely eliminates the need for external conversion boxes. This not only reduces cost and complexity, but results in a low latency infrastructure with significantly fewer timing errors.



**2M/E Compact control surface**

Height 553mm                      Width 997mm  
 Weight 28.5kg                      Depth 138mm



**GUI Panel**

Height 292.6mm (including stand)    Width 430mm  
 Weight 6.3kg                              Depth 81.7mm



**6RU**

Height 266mm                      Width 482mm (incl brackets)  
 Weight 33kg                        Depth 563.7mm (incl connectors)

**Specifications 6RU  
 TV Standards (Options)**

625/525	4:3
625/525	16:9
1080i	60Hz SMPTE-274M(4), -292M(D)
1080i	59.94Hz SMPTE-274M(5), -292M(E)
1080i	50Hz SMPTE-274M(6), -292M(F)
1035i	60Hz SMPTE -260M, -292M(A)
1035i	59.94Hz SMPTE-260M,-292M(B)
1080p	30Hz sF
1080p	29.97Hz sF
1080p	25Hz sF
1080p	24Hz sF
1080p	23.976Hz sF
1080p	30Hz SMPTE-274M(7)-292M(G)
1080p	29.97Hz SMPTE-274M(8) -292M(H)
1080p	25Hz SMPTE-274M(9) -292M(I)
1080p	24Hz SMPTE-274M(10) -292M(J)
1080p	23.976Hz SMPTE -274M(11) -292M(K)
720p	60Hz SMPTE-296M(1), -292M(L)
720p	59.94Hz SMPTE-296M(2), -292M(M)
720p	50Hz
Analog Genlock	High definition tri-level syncs signal or SD 1V B&B
Input Return Loss	>15 dB to 750 MHz >12 dB to 1500
Maximum Input Cable Length	Exceeds SMPTE292 Recommendations >= 100 m of Belden 8281 cable
Video Signal Output Return Loss	>15 dB to 750 MHz >12 dB to 1500
<b>Internal Processing</b>	
Pb & Pr Data Rate	37.125/6.75 MHz or/(1.001) MHz (4:2:2) @12bit
Resolution	10 bits. Output
Luma & Key Data Rate	74.25/13.5 MHz or (74.25/1.001) MHz @12bit

**6RU Mainframe**

**Video Signal Inputs**

40 SD/HD	270Mbit/s/ 1.485Gbit/s
Serial Digital	serial digital interface as REC601/ SMPTE 292M via BNC connectors
Genlock Ref	2 off Analog Sync (loop A&B through)

**Video Signal Outputs per ME**

4 Programmable	4 BNC connectors HD/SD-SDI (2 feeds per output)
4 Timed Aux	4 BNC connectors HD/SD SDI (2 feeds per output)
Analog Sync Out	Timing Adjustable Sync Output

**Additional Video Signal Outputs**

8 Source AUX	8 BNC connector HD/SD SDI
--------------	------------------------------

**Control Interfaces Per ME 2 M/E Max**

Ext Interfaces	2 x freely-assignable RS422 each via 1 x 9-way D-type
Diagnostics	RS232 (DCE) via 1 x 9-way D-type connector

**Control Interfaces Shared**

GPI Inputs	24 x TTL-level inputs via 25-way D-type connectors
Tally/GPO Outputs	48 x isolated contact closures via 25-way D-type connectors
Three 10/100 Base T	3 x RJ45 connectors, Used Ethernet connections for panel control, FTP, Offline download

**Control Interfaces (Control Surface)**

	1x 25-way D-type connector to GUI display
	1x 15 Way Dtype on Panel for Master Aux Panel, Micropanel or ShotBox

**Control Interfaces (GUI)**

Mainframe	10/100 base T via 1 x RJ45 Connector GUI 25-way D-type connector (display) and main panel (with Power 3m)
3 USB Ports	USB 1.1/2.0 Ports (2 on rear, 1 on front of GUI) 2x 15 Way Dtype on rear
Aux Control Port	RJ45 Daisy chain for 1U AUX panels
Main Aux	15 Way D-type
Micropanel	15 Way D-type
ShotBox	15 Way D-type

**Power**

Kahuna Mainframe	Auto sensing 100-250 VAC
Power Supply	One fully independent hot-swappable PSU module, with a single mains power feed via 1 x 16A IEC-C20 socket. Dual Redundancy requires one more fully independent PSU module; with separate mains power feed via 1 x 16A IEC-C20 socket.

**Kahuna 6RU**

Mainframe	900 W Maximum with all Power Consumption options fitted.
-----------	--

Control Panel	Auto sensing 100-250 VAC
Power Supply	50/60 Hz nominal

**2ME Compact**

Two fully independent PSU modules, with separate mains power feeds via 2 x 10A IEC-C14 sockets.

A single PSU is standard the second PSU is an option.

Control Panel	Power 100W Max Consumption
Control Panel	Power 50W Max

**Mainframe**

Temp Range	41 to 95 ° F, 5 to 35° C non condensing Operating
------------	---

**Control Surfaces and Ancillary Panels**

Temp Range	41 to 95 ° F, 5 to 35° C non condensing operating
------------	---

**Creative Technology Ltd**  
 Unit E2  
 Sussex Manor Business Park  
 Crawley  
 West Sussex  
 RH10 9NH

Tel.: +44 (0)1293 582000  
 Fax: +44 (0)1293 582010  
 info@ctlondon.com  
 www.ctlondon.com