

US series

US系列音频矩阵处理器 US8803/US1683/US16163
US SERIES AUDIO MATRIX PROCESSOR

- 32位SHARC DSP芯片处理，96kHz采样率，24bit AD/DA转换。
- 每路模拟输入通道具有+48V幻象电源，话筒和线性输入增益可切换，话筒的输入的灵敏度可调。
- 输入通道处理部分包含低切，独立反馈抑制，参量均衡，噪声门，增益，静音，相位，连动调节，音量编组调节等处理功能。
- 输出通道处理部分包含分频，参量均衡，增益，静音，压缩/限幅器，相位，延时，连动调节，音量编组调节等处理单元。
- 所有通道的PEQ增益、带宽、频率连续可调，类型可选择: 参量均衡，低架滤波，高架滤波，低切滤波，高切滤波，1阶移相，2阶移相。
- 所有输入输出之间且每个输入输出通道名称可以更改可以自由进行矩阵式分配。
- 所有输入输出通道带独立的相位曲线调整功能，PEQ类型选择中1阶移相可实现180度相位曲线调整，2阶移相可实现360度相位曲线调整。
- 所有高切，低切滤波器的类型可选择：巴特沃斯、林奎瑞利、贝塞尔、斜率连续可选。
- 输入通道噪声门的门限值、启动时间、恢复时间连续可调。输出通道的压缩/限幅器的阈值，比率，启动时间，恢复时间连续可调。
- 所有输出通道的延时模块都具有高达680ms的延时时间。
- 任意通道之间参数设置可以自由复制，以及任意通道可以进行连动调节。
- 可在任意一个输入或输出通道视窗下显示当前所有的输入或输出通道的频响曲线情况。
- 独特的EFX通道设计，具有专业的ECHO和REVERB双引擎多重效果器，即可美化修饰音色，也可全面支持卡拉OK功能，可广泛应用于会议、多功能厅等各种应用场合。
- AUX通道具有强大的自动混音处理功能，混音阈值、幅度、启动时间、恢复时间等参数连续可调。同时具有自动摄像跟踪触发功能，触发阈值、幅度、启动时间、恢复时间等参数连续可调。
- 内置测试信号发生器，输出方式可选粉红噪声，白噪声及20Hz-20kHz正弦波可调，信号幅度可调。
- 前面板带有输入输出电平指示灯，USB控制端口，后面板232&485控制端口，以及以太网连接远程控制端口，一键式连机使得用户的操作更简易快捷，电脑可无线
- 多个用户预设：整机状态和每个预设都可以单独存储和调用。ID设置功能可以级联控制255台机器，还具有密码保护功能，使设备更安全。
- 配US-1触控盒一起使用，使设备操作简单，便捷，易控。



- 32-bit SHARC DSP process, 96kHz sampling rate, 24bit AD/DA convert.
- Each analog input channel has a +48V phantom power supply, the microphone and linear input gain can be switched, the microphone input sensitivity can be adjusted.
- The input channel processing includes low cut, independent feedback suppression, PEQ, noise gate, gain, mute, phase, linkage adjustment, volume grouping adjustment and other processing functions.
- The output channel processing includes frequency division, PEQ, gain, mute, compression/limiter, phase, delay, linkage adjustment, volume grouping adjustment and other processing units.
- All channels' PEQ gain, bandwidth and frequency can be continuously adjusted, and the types can be selected: PEQ, low-shelf filtering, high-shelf filtering, low-cut filtering, high-cut filtering, first-order phase-shifting, second-order phase-shifting.
- Every input and output can do matrix assign flexibly, and all the input and output channels' name can be changed.
- All the input and output with independent phase curve adjust functions, PEQ style choose allpass 1 -180 ° curve adjust, allpass 2 -360 ° curve adjust.
- All types of high-cut and low-cut filters are available: Butterworth, Linkwitz-Riley, Bessel, and continuous slope.
- The input channels' noise gate threshold value, start-up time and recovery time are continuously adjustable. The output's compression/ limiter threshold, ratio, start-up time and recovery time are continuously adjusted.
- All output channel's delay modules have delay time up to 680ms.
- Parameter Settings between any channel can be copied freely, and any channel can be linkage adjusted.
- Displays the current frequency response curves of all input or output channels in any input or output channel window.
- Unique EFX channel design, with professional ECHO and REVERB dual engine multiple effectors, can beautify and modify the timbre, can also fully support the karaoke function, can be widely used in conferences, multi-function halls and other applications.
- AUX channel has powerful automatic mixing processing function, mixing threshold, amplitude, start time, recovery time and other parameters can be adjusted continuously. At the same time with automatic camera tracking trigger function, trigger threshold, amplitude, start time, recovery time and other parameters can be adjusted continuously.
- Built-in test signal generator, output mode optional pink noise, white noise and 20Hz-20kHz sinusoidal adjustable, and signal amplitude adjustable.
- The front panel is equipped with input and output level indicator light, USB control port, rear panel 232& 485 control port, and Ethernet connection remote control port. One-button connection makes the user's operation easier and faster, and the computer can be wireless
- Multiple user presets, the complete machine state and each preset can be stored and called separately. The ID setting function can cascade control 255pcs machines, and also has password protection function to make the device more secure
- The US-1 touch control box is used together, making the equipment easy to operate, convenient and easy to control.

SPECIFICATIONS

型号MODEL	US8803	US1683	US16163
输入输出通道INPUT/OUTPUT CHANNELS	8进8出 8 IN/8 OUT	16进8出 16 IN/8 OUT	16进16出 16 IN/16 OUT
输入输出接口INPUT/OUTPUT CONNECTOR	输入：凤凰插座，输出：凤凰插座 INPUT/OUTPUT: PHOENIX SOCKET		
频率响应FREQUENCY RESPONSE	20Hz-20KHz ±0.3dB	20Hz-20KHz ±0.3dB	20Hz-20KHz ±0.3dB
动态范围DYNAMIC RANGE	115dBu	115dBu	115dBu
失真度THD	<0.008% at 1kHz(0dBu)	<0.008% at 1kHz(0dBu)	<0.008% at 1kHz(0dBu)
串音CROSSTALK	>70dBu, 20Hz-20kHz	>70dBu, 20Hz-20kHz	>70dBu, 20Hz-20kHz
共模抑制比CMRR	>75dBu 1KHz	>75dBu 1KHz	>75dBu 1KHz
话筒输入部分 MIC INPUT	连接方式 CONNECTION TYPE	平衡式连接 BALANCED CONNECTION	
	幻象电源 PHANTOM POWER	48V DC	48V DC
	增益GAIN	50dBu	50dBu
	阻抗 IMPEDANCE	2K Ω	2K Ω
线路输入部分 LINE INPUT	连接方式 CONNECTION TYPE	平衡式连接 BALANCED CONNECTION	
	增益GAIN	35dBu	35dBu
	最大输出电平 MAX OUTPUT LEVEL	18dBu	18dBu
	阻抗 IMPEDANCE	> 10K Ω	> 10K Ω
输出部分 OUTPUT	连接方式 CONNECTION TYPE	平衡式连接 BALANCED CONNECTION	
	最大输出电平 MAX OUTPUT LEVEL	18dBu	18dBu
		阻抗 IMPEDANCE	< 500 Ω
数字处理部分(DSP)		24bit sigma-delta A/D、D/A转换 CONVERSION, 32bit SHARC DSP, 96kHz采样SAMPLING	
产品尺寸DIMENSIONS(WxDxH)mm		482x254x44	482x254x89
产品净重 NET WEIGHT		3.8KG	4.9KG