AUREUS™ 28
Digital Mixer

AUREUS 28 with Tablet
(Tablet not Included)

Description

The foundation of the Peavey® Aureus™ 28 digital mixer is professional quality audio in an easy to use package. The 10" multi-touch display allows users to access almost any control with just a couple of taps. Fifty-nine dedicated controls allow access to most critical functions with a single touch, making the Aureus 28 the easiest to use digital mixer to date.

A tablet in the onboard dock can serve as a second screen. Remote control is available via onboard WiFi by any HTML5 compatible browser. Connect up to 10 devices simultaneously to control any aspect of the mix.

The Aureus 28 contains 28 inputs and 14 outputs with a best-in-class 10" touch display. For ultimate ease of use and workflow, the mixer has 14 dedicated encoders, 9 motorized faders, and 45 dedicated backlit buttons. Thanks to 16 Combo XLR-1/4", RCA, Bluetooth, and USB inputs, the Aureus 28 can connect to most audio sources. Combine that with 14 outputs, including 10 XLR, USB, and AES digital, and the Aureus will tackle just about any sound reinforcement application.

Whether you are mixing in a club, church, conference center, sports field, arena, or any other place requiring professional audio, the Aureus 28 mixer is the perfect solution, providing world-class workflow and audio quality in a compact, easy-to-use format.

Features

- **Channels:** 28 inputs x 14 outputs
- **Inputs:** 16 XLR-1/4" Combo
- **Phantom Power:** 16 Channels +48V
- **Additional Inputs:** Bluetooth, USB A & B
- **Outputs:** 10 XLR, 2 RCA, 6 Digital
- **AUX Sends:** 8 AUX
- **Busses / Groups:** 8 BUS, 2 MAIN, 4 DCA
- **DATA I/O:** WIFI onboard, Ethernet remote
- **Computer Connectivity:** Ethernet, WiFi, USB
- **Headphones:** 1 x 1/4"
- **Faders:** 9 x 100 mm Motorized
- **EQ:** 5-band fully parametric
- **Effects:** 23 effects in 2 engines
- **Rack Mountable:** Yes with optional rackmount kit
- **Mute Groups:** 3 programmable
- **Mute Functions:** 6 dedicated controls
- **Bluetooth:** Stereo - Long Range
- **Solo Function:** With dedicated controls
- **Tablet Holder:** Yes

Hardware parameters		Software parameters	
Input channels	28 input channels: 16 Mic, 3 stereo, 2 digital stereo, 1 bluetooth stereo	Effects	Dual independent effects engines
			Hall, Room, Church, Plate, Delay
Output channels	14 output channels: Main L/R, 8 BUS , Monitor L/R, Headphone L/R	Gate	Threshold : -80~0dB
Recording interface	Stereo to USB B		Attenuation : -80~0dB
	Stereo to USB A		Attack : 1ms~120ms
Input Gain	MIC GAIN-20~+70, LINE GAIN -20~+20		Release : 10ms~4000ms
Input and output impedance	MIC/LINE input :5kΩ		Hold : 1ms~2000ms
	Output: 200Ω	Compressor	Threshold : -60dB~+0dB
Frequency response	20Hz~20kHz : +/-0.5		Ratio : 1:1~1000:1
THD+N	-20dBFS @ 1kHz : ＜0.01%		Attack : 1ms~120ms
Noise	-85dBu Noise level （20/20k band-pass）		Release : 10ms~4000ms
	-88 dBu Noise level (A weighting)		Hold : 1ms~2000ms
Dynamic range	-107dB		Makeup Gain : -20dB~+20dB
Crosstalk	-96dB Isolation between channels （+4dBu 1k）		Soft point controlled
Phase displacement	＜0.1° Phase difference between channels （+4dBu 1k）	Channel EQ	4 band PEQ
Equivalent noise	-122dBu		Frequency band: 20Hz~20kHz
Internal latency	‹3ms		Q : 0.05~15
Sample rate	48K		20dB~+20dB Gain:-20dB~+20dB
USB	500mA Maximum current 500mA		Selectable PEQ,HPF,LPF,HSF,LSF
Phantom power	48V,Software control management	Channel Bandpass Filters	HPF : 20Hz~20kHz
Power supply	‹65W Power consumption		LPF : 20Hz~20kHz
	100~240VAC universal power supply	Graphic EQ	±15dB 31 band GEQ,20Hz~20kHz,
	AC frequency : 47~63Hz	DCA and Mute Groups	4 DCA Groups
Operating range	Temp: -20℃~55℃		3 programmable mute groups + 1 effects mute+ 1 all mute

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Architect's & Engineer's Specifications

The unit shall be a compact mixer with 16 mono, 3 stereo line, 2 digital stereo and 1 Bluetooth input channels mixing to 14 mix outputs. The unit shall be rack-mountable with an optional available rackmount kit.

The surface shall include 9 moving faders with 5 layers, each layer having dedicated keys and indicators, giving access to input channels, output channel busses, and to DCA masters.

The mixer shall have a physical control per function following the select button for the input and output channels allowing for fast access to all key processing parameters.

All processing, routing and assignments of signals shall be accessed and adjusted via a 10 inch colour touchscreen provided on the mixing surface.

5 soft keys shall be provided for quick access to 3 Mute Groups, FX Mute, and All Mute. There shall also be 5 dedicated keys to change between Layer 1-8, 9-16, Stereo Inputs, DCA's and Busses. Each channel shall provide dedicated soft keys for Select, Solo, and Mute. 12 dedicated push encoders, 4 on the left and 8 below the 10 inch touchscreen shall provide quick and easy access to all parameters displayed on the screen.

All output mix channels shall contain the following processing: Polarity, Parametric EQ, Compressor, and Delay.

There shall be 2 EFX engines, 4 DCA groups and 3 Mute groups. 2 independent effect engines shall be provided with a library of factory preset FX emulations.

12-LED bar meters on the surface shall indicate the 2 Main mix buss levels, the Solo signal shall override the LR meters accompanied by a Solo active indicator.

A quarter-inch jack socket for Solo headphones output shall be provided, with an analogue output level control. The mixer shall include stereo recording/playback to optional USB hard drives. The format shall be 44.1 kHz or 48 kHz WAV.

The mixer shall play back stereo WAV and MP3 files at 44.1 or 48 kHz and shall have a USB Type-A connector on the surface for recording, playback, data-transfer, archiving, and firmware updates to USB drive.

On the rear panel there shall be a Type-B USB connection following the USB 1.1 standard for multi-channel, bi-directional audio streaming of 2 out / 2 in between the mixer and a sound card.

The mixer shall provide a wireless router (access point) for live mixing control.

The mixing system shall include control via any HTML5 enabled wireless touchscreen device connected via the internal wireless network router and allow control of all functions including the preamp gain, polarity, and phantom power.

Input and output channel processing and parameters in the mixer shall be saved on demand as a user library item for recall in other channels. Individual processing sections shall be saveable on demand as user library items for that type. Library items shall be transferrable to USB drive as portable data to be used in other systems.

An option shall be provided for password protection for log-in of several users with different levels of system access and permissions.

The mixing control surface shall have an external power supply accepting AC mains voltages of 100~240 VAC, 47~63 Hz, 65W max via an earthed 3-pin IEC male connector. The external power supply shall be connected to a lockable 3-pin connector mounted on the rear chassis.

Recommended operating temperature for the mixer shall be -20 to 55 degrees Celsius.

The compact mixer shall be the Peavey AUREUS 28 Digital Mixer.

Commercial Audio