

AIR 3

Analog Mixer



The Audioarts Air-3 mixing console draws upon Wheatstone Corporation's continuing investment in the latest design, tooling, and manufacturing infrastructure. Because we both design and manufacture our own audio consoles, we can ensure our reputation for unparalleled quality, performance, and reliability. The AIR-3 is no exception. It delivers superb broadcast quality and an excellent feature set at a great value.

 **AUDIOARTS ENGINEERING**

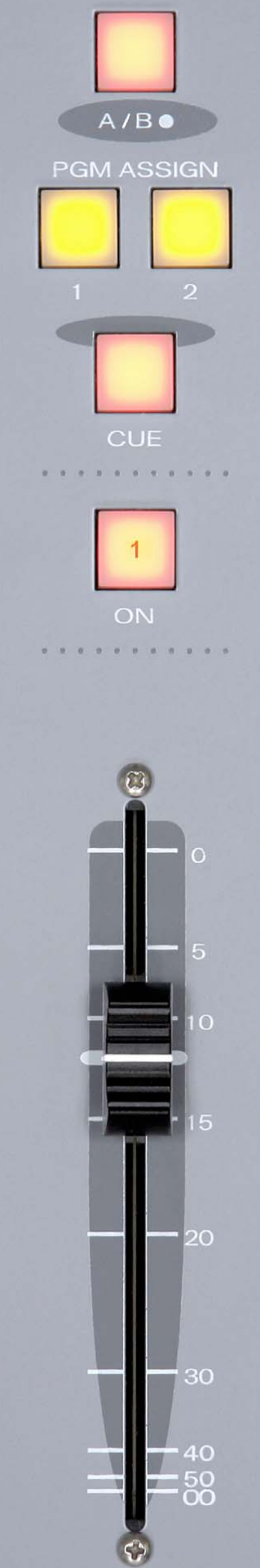
The AIR 3 has an ideal feature set – it gives you 12 input faders (w/A-B source select), a 13th fader for call-ins, external machine control, two program busses, built-in cue speaker and CR, headphone and studio monitoring control. Add patchable USB connectivity for PC news, production work stations or streaming audio, and the Audioarts AIR-3 is perfect for local radio stations and internet broadcasters.

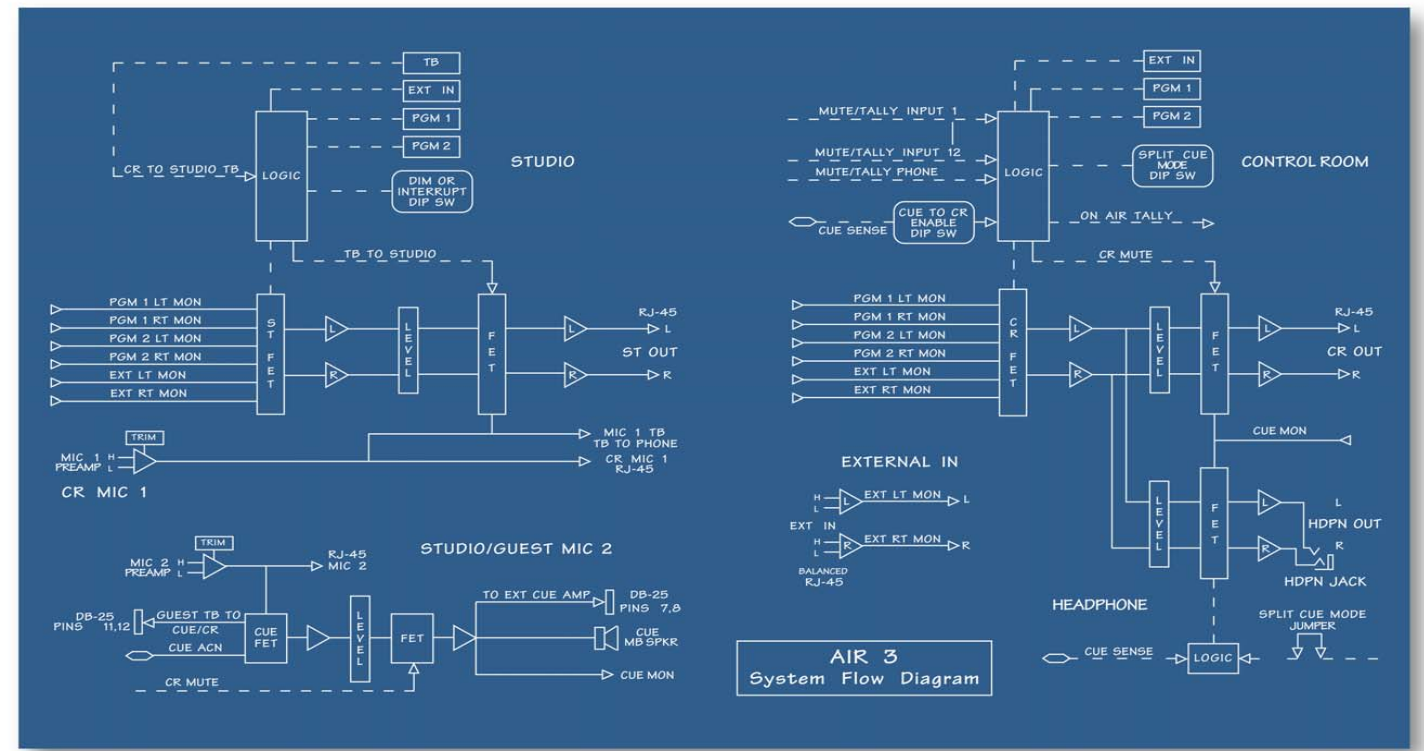
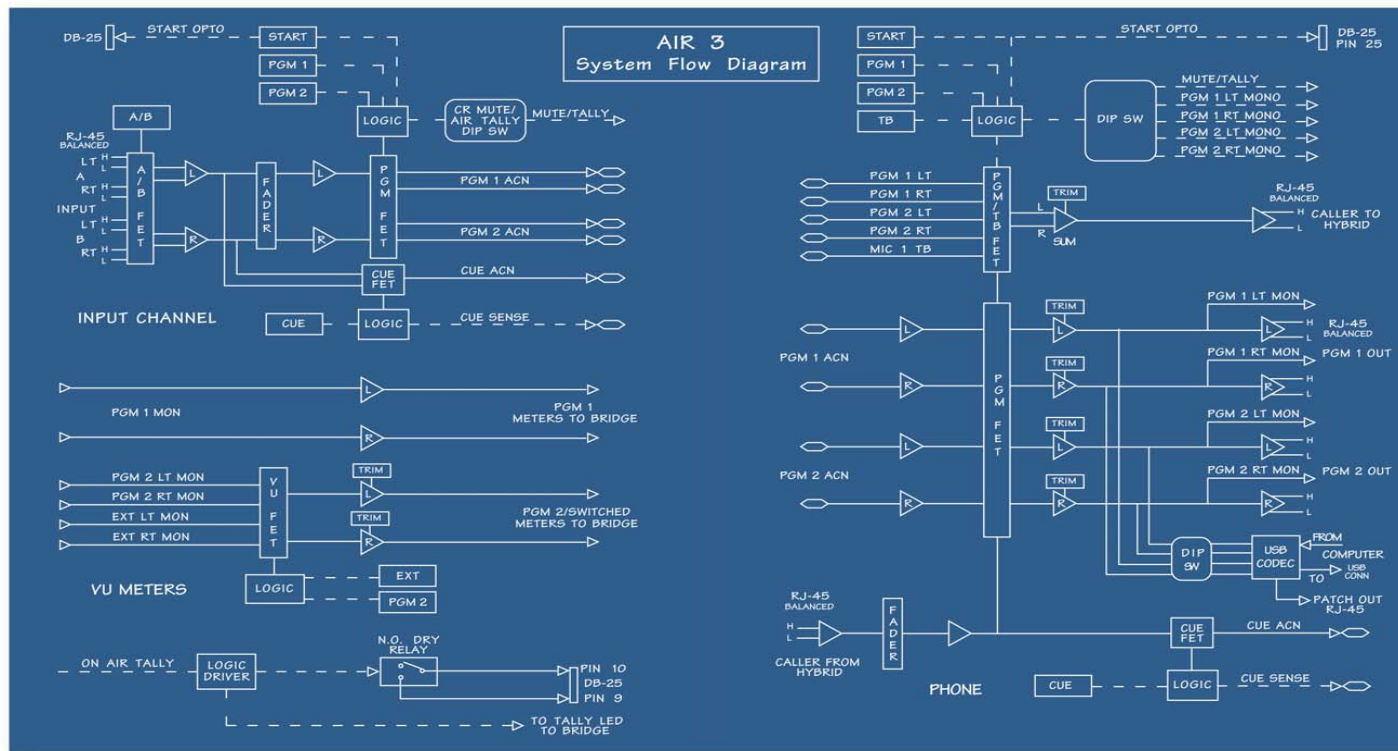
- tablemount, no cutout
- RJ-45 connectors for low cost wiring
- 12 stereo input fader channels, each with A and B inputs and remote START logic
- 13th phone caller fader with talkback and auto mix-minus to caller
- two high performance mic preamps with variable gain trims to precisely match your microphones; preamp outputs jumper to any input fader's A or B input

- two program busses with balanced outputs (switchable stereo or mono mode)
- external input feeds the monitor section (for live air or pre-delay air monitoring)
- CR room monitor switchable PGM 1, PGM 2 or external; can mute when CR mic is live
- built-in cue speaker can automatically interrupt your main stereo monitors
- headphone output with built-in amplifier and concealed jack

- split cue — when any fader is in CUE, sends cue audio to left channel and L+R sum of selected monitor source to right channel (switchable separately for CR and headphone)
- dual meters: PGM 1 and PGM 2 or external
- LED switch illumination
- external power supply
- on-air light — front panel LED between the meters, and a low current closure output to drive an external ON AIR light relay.

- studio output with independent source selection and CR-to-studio talkback button
- plug in faders and conductive plastic monitor pots for easy replacement
- USB connection that is patchable to any of your input faders and internally dipswitchable to pick up program 1 or program 2 output mixes. Lets the Air 3 interface with your desktop computer for news, music sweetening functions or to stream audio mixes from and to the console.





CONSOLE LOGIC DIPSWITCHES:

- 1) CUE TO CR - routes the cue signal to the main control room speakers for full range sound
 - 2) CR SPLIT CUE - sends the cue signal to the left CR speaker and a mono summed program signal to the right CR speaker (an internal jumper can cause the same action in the headphone circuitry)
 - 3) STUDIO DIM - reduces the studio monitor signal feed level when the studio TB button is pressed
- SW4 & SW5 - when activated change Program 1 stereo output to mono (for AM stations)
 SW6 & SW7 - do the same for Program 2

TRIM POTS:

- VU METER TRIMS - separate gain trims are provided for the main program and switched VU meters for precise calibration to your facility's standards
- CALLER GAIN TRIM is provided to exactly match the signal level required by your caller interface device
- PROGRAM GAIN TRIMS provide optimal gain adjustability
- MIC GAIN - these two trimmers are used to optimally adjust the built-in mic preamplifiers to your microphones

USB ANALOG OUT - may be patched to any of the console's 24 stereo RJ45 inputs, or looped to outboard processing gear.

STUDIO OUTPUT - independent studio output would normally wire to your studio guest's monitor amplifier

EXTERNAL IN - A balanced external in is available to feed either the control room or studio monitor sections. It generally would be wired to an off-air signal source

AIR-3 Technical Specifications

AUDIO INPUT					
Mic	Direct wire plug terminals, balanced Electronic differential, >2KΩ bridging Adjustable sensitivity, max. input -6dBu	Cue	Cue speaker in meterbridge DB-25 female connector output to drive external power amp	Noise	Mic -128dB EIN Line -87dB ref 0VU
Line (Caller, External)	RJ-45 balanced, >10KΩ bridging +4dBu = 0VU, max. input +24dBu	LOGIC	On-Air	THD+N	Mic <0.02% @ -50dBu in, +4dBu out Line <0.003% @ -4dBu in, +4dBu out
AUDIO OUTPUT		Channel Start Out	DB-25 female connector Low current closure to drive external on-air light relay Opto-isolated output closure to remote start external devices	Bus Crosstalk	-90dB @ 1kHz
Program & Caller	RJ-45 connectors, balanced Electronic differential, 100Ω source Impedance to drive >600Ω 0VU = +4dBu, max. output +24dBu	PERFORMANCE	Frequency Response	Stereo Separation	-60dB @ 1kHz
CR & Studio Monitor	RJ-45 connectors, unbalanced Stereo 1/4" TRS connector to directly drive typical broadcast style headphones >200Ω	Dynamic Range	±0.1dB 20Hz-20kHz (mic & line) Line (unity gain) 113dB Mic (54dB gain) 100dB	Off Isolation	-115dB @ 1kHz
Headphone		Headroom	24dB above -4dB	PHYSICAL	
				Dimensions	28.4" / 72.1cm wide 15.4" / 39.1cm deep 4.4" / 11.2cm height (rear) 1.6" / 4.1cm height (front)
				Weight	17 lbs / 7.7kg
				Shipping Weight	25 lbs / 11.3kg
				Power	100-240VAC / 50-60Hz / 50W



- DC PWR IN - remote power supply keeps hum and noise away from the console
- CALLER PORTS - separate input and output RJ45 connectors provide electronically balanced outputs to feed your telephone interface device
- MIC INPUTS (electronically balanced) - a plug-in screw terminal connector accepts low level microphone signals and inputs them to the console's two microphone preamplifier circuits
- PROGRAM OUTPUTS - separate balanced RJ45 connectors are provided for program 1 and program 2 output mixes
- USB PORT - Lets the AIR-3 easily interface with your desktop computer for news, music sweetening functions or to stream audio mixes to and from the console.
- MIC 1 & 2 OUTPUT - the outputs of the AIR-3's low noise mic preamplifiers may be patched directly to any of the console's 13 fader channels or be connected to outboard processing gear.
- CR output - feeds CR monitor speaker amplifier so the operator can listen to PGM 1, PGM 2 or EXT IN, or even the CUE feed if dipswitch selected (see console logic dipswitches)
- DB-25 LOGIC CONNECTOR provides logic ports for all 13 of your fader machine starts, on-air tally relay ports, guest TB to CR logic function, as well as a cue output for an optional external cue amplifier
- CR MUTE/TALLY - 13 dipswitches, each associated with the console's 13 faders when selected can cause the CR speakers to mute to prevent open mic studio feedback and also the on-air tally relay to close to warn outsiders that the studio microphone is on-air
- INPUTS - the console comes with 24 stereo balanced RJ45 inputs that provide both A and B sources for all of the twelve stereo fader channels. NOTE the mic preamp outputs will automatically feed both left and right outputs when an RJ patch cord is inserted. Also NOTE the 13th phone module channel is a mono channel, but can also received a mic preamplifier input.