AIRENCE

ANALOG PRODUCTION | ON-AIR CONSOLE

With the AIRENCE-USB ON-AIR mixer you can own a modern, split version type of radio production mixer. A smart mixer with an integrated USB based control section. Built with well proven low noise circuitry, this console is *the* reliable work-horse for the self-op production D.J. Built in Telephone Hybrids (2x), 4 channels USB and 4 Mic inputs. Ideal for streaming to the web and sending and accepting 4 stereo channels from your Play-out software. A heavy duty (19" rack) RF shielded chassis, that can be used as a dropthrough in your furniture, houses all the vertically mounted input modules.

Extension units with six triple input channels with high end quality Mic inputs on XLR and two stereo line level inputs on Cinch (RCA) connectors can be connected to the main unit. The result is a modern split drop through 12 (or 18/24) fader radio console.

MIC, LINE, USB AND TELEPHONE IN-OUT-PUTS.

This brand new AIRENCE-USB model has 4 balanced mic inputs (+48 phantom is standard) with inserts for signal processors, 6 stereo line inputs, 4x USB channels and 2x Telephone Hybrids.

One physical USB connection is the inter-face to transfer 4 stereo audio channels from and to your PC.

Channel 5 and 6 have, apart from the stereo line input, also RJ-11 connectors to interface with an analog telephone line and a com-mon dial unit.

High quality built in Hybrids with R and C balance and direct Talk back to the Hybrid channels makes conversation with callers very easy.

The illuminated front panel ON switch is wired in series with the built in mechanical faders start enabling selection of a play-out start either by fader or via the ON switch. Fader start generates in the Mic mode a Mic-on signalling to switch ON-Air lights. There is a 3 band Equalizer on channel 1-4 and on all 6 Triple input channels of the Ex-tender Unit. The stereo Aux send can be set pre or post fader. All high quality mic inputs have low cut jumpers.

EXTENSIVE MASTER SECTION DE-SIGNED WITH RADIO IN MIND.

The AIRENCE-USB has all the master controls such as 100 mm stereo master faders, stereo Aux send and return, monitor master with "follow phones" and a phones output with a split listen function. There is a balance control to continuously adjust the volume between main output and stereo Cue signal. In addition, there is a special Radio On-air/production section featuring; Self-op switching (Mute Active) to automatically cut control room level when the D.J. mic is active. A special Studio output that normally follows main output but can be switched so that the main output, or any cue signal that is selected, can be heard when in the "follow phones" mode. Also here is a Speaker Mute-Activation possible when presenters use loudspeakers in the studio room.

You might have noticed that the channels have Sub and Program routing. It means that production (voice tracking) can be done on the sub output while ON-AIR. The AIRENCE can also be used for production while ON-AIR when it is put into the NON-STOP mode. A single switch routes one of the 4 USB channels directly to the main outputs A large Talkback switch activates the built-in electret talkback microphone for communi-cation.

D&R

The AIRENCE-USB is designed to be the focal point for local radio production work in the studio or... at home. It's understandable features makes it the ideal companion for rapid on-the-spot radio programs. The AIRENCE is compact, reliable and 19" rack mounting ideal for production rooms. It can also double as an On-Air mixer or implemented as your own Inter-

These switches can be used to control functions in your Radio Automation such as starting jingle machines and switching between live and NON stop. Recording a voice track while ON-AIR is one of the possibilities.
A built in USB controller, specially tailored by D&R and programmable by yourself, to make radio even more exciting.

net Radio station. If your budget is tight start with the 6 channel version which is a complete system to begin with. And it never becomes obsolete as it can be used as pre-production mixer, if, at a later date, you fit in a larger On-Air mixer. And.. if more inputs are needed hook up the AIRENCE-EXT and instantly you have 6 more triple inputs with each giving you a low noise Mic and 2x stereo line inputs under control. The Cue buss is of course linked.
Not enough? Buy another 6 channel unit to expand to 18 or even more input channels.

Every unit is individually powered by a modern digitally switched power supply to create high efficiency in power consumption. Also power supply redundancy is an option because the power supply unit is external.

CONTROL SECTION
On the right side of the mixer you see 24 illuminated (green/red or yellow) switches

SOFTWARE
The AIRENCE sends out control signals over USB based on the HID protocol. This means that the main output signals can be displayed on a TFT screen in a beautiful meter

application. Both Program and Sub stereo signals are shown on a high resolution PPM. A smaller separate stereo meter shows all signals heard through the CRM speakers. At the same time this software application shows you a professional looking Radio clock that is synchronized by the nearest NTP server over he Internet.

SPECIFICATIONS

INPUTS.
Mic inputs: bal, 2 kOhm, XLR. ,48 volt Phantom.
Noise: - 128 dBr (A-weighted). (That 1501)
Sensitivity: - 70dB min, OdB Max.
Insert: Jack unbalanced send 600 Ohm -10dBV.
Aux Return unbalanced 10kOhm -10dBv.
Line inputs: unbal.., 10kOhm, Cinch.
Gain: range of 40dB.
Phono inputs: unbal. 47kOhm, 5 mV. (optional)
USB: 4x Stereo in and 4x stereo out.
Extern in: - 10 dBV at 10kOhm.
Aux returns: - 10 dBv at 10kOhm stereo

USB.
Fully compliant with USB 2.0 playback and record mode. 4x Stereo in and Main stereo or SUB signals out. HID Functions: Volume|Mute|Control

USB CONTROL SECTION.
24 free assignable illuminated switches plus encoder based on the HID protocol.

TELEPHONE HYBRIDS.
RJ-11 connectors for phone line/dialler
Mix Minus rejection @1kHz -40dB.

OUTPUTS.
Left/Right: + 6dBu bal. XLR.
Monitor/Aux : + 6dBu unbal. on Cinch.
Studio: + 6dBu, Jacks. Tape outp: -10dBv.
Headphone: 32-600 Ohm, Jack.
Announcer: 32-600 Ohm, Jack.
USB out: Main program stereo signal or SUB

EQUALIZER.
High: + / -12 dB at 12kHz shelving.
Mid: + / -12dB at 1 kHz bell curve.
Low: + / -12dB at 60 Hz shelving.

OVERALL
Frequency response: 10 - 60.000Hz.
Distortion: < 0.01% max at 1 kHz.
Start switch: isolated reed relay. (24volt/50mA)
Ledbars: 11 segment and on high res on screen

SOFTWARE
A software protocol is available for programming of the USB HID protocol to match your software.

DIMENSIONS:
Main unit
19" rack mountable (480mm)
Height: 356mm (8HE).
Depth: 95mm.
Weight: 9kg.

Extension unit
Width: 400mm
Height: 356mm (8HE).
Depth: 95mm.
Weight: 7kg.