# **AIRLAB MK-2**









A WORLD WIDE PROVEN BROADCAST SYSTEM

he new AIRLAB MK-2 radio ON-AIR console is D&R's solution for applications where features and functions has to be weighed up against operational simplicity. A simple direct accessible control surface combined with intelligent instantly reset able digital functions enables customizing to station requirements and even to personal requirements because of the use of a personalized chip card holding all important functional data. Purchasing choices are straightforward: the welded steel frame will accommodate a maximum of 16 triple input modules with or without EQ (and its knobs), a digital in/output module and an unlimited number of Telco modules (up to 16) plus the master section with script space. The main outputs are electronically balanced (transformer balancing is an option) and the majority of connectors are on balanced XLRs. With a sales track record (2012) of more than 300 consoles in the field, this On-Air mixing console has proved its popularity and... reliability.

# MONO MIC-O TRIM MIC PROG 50 60 -

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### TRIPLE INPUT MODULES.

The AIRLAB triple input module combines a high quality mic input with two

# **TELCO MODULE.**

The AIRLAB has the possibility to be loaded with up to 16 Telco modules. Due to an ingenious Mix-Minus system, alignment is only necessary during installation.

The AIRLAB Telco module is a straight forward design making communication very easy. The first control is the front panel accessible, R BAL. trimmer for side tone adjustment, only necessary during installation. The Telco Send knob

controls the outgoing signal to the caller.

This signal is coming from the PROGRAM or SUB bus. The line input can be switched to a balanced XLR input connector to accept an external (digital) hybrid instead of its own internal hybrid. A separate input gain control with HP and LP filters can be used to enhance intelligibility. The SUB and PROGRAM assign switch routes the signal to both outputs if needed.

The stereo Aux. control has jumpers that select its source to be pre or post VCA/MUTE.

A Pan-pot and CUE/SELECT switch plus the ON switch completes the Telco module.

A 100mm linear fader controls a high quality THAT VCA, eliminating any fader wears out in the future. A Caller can be taken with the ON switch when the fader is up or with the CUE/ SELECT/RING switch when the fader is down. When CUE is active in the TELCO module, the caller is connected to the CUE bus and also the engineers talk-back, but does not go ON-AIR yet as the fader is down. It is possible to connect both the CUE and ON switch to a remote unit, allowing a director to control the broadcast. A "Connect" LED positioned below the High Cut switch indicates that the internal



AIRLAB DIGITAL **IN/OUT PCB** 

Hybrid is active

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# CENTRALISED MASTER SECTION WITH PROGRAMMABLE UTILITIES AND SCRIPT SPACE.

The master module is divided in three sections. The first "module" houses the TAPE SEND controls which selects the feed to the tape output. This could be either the SUB output signal or the AUX. output signal.

The ST Aux master controls the outgoing Aux signals from the input modules. A Talk-back to AUX switch is provided for.

The lower part of this "module" houses the Control Room Monitor section that can be fed by an EXT(ernal) stereo input, the stereo Aux output, a stereo ON-Air signal or the stereo SUB output signal.

All selections have LED indicators and the lowest positioned switch has priority over the input selectors positioned directly above.

The CUE BALance pot adjusts the balance between the PROGRAM output or another selected input source and the CUE signal (when selected).

A cue LED indicates when a CUE signal is on the CRM or Phones.

Separate Phones and CRM controls, with a DJ mic on mute indicator complete this section.

### COMMUNICATION IS ON BOARD.

The second "module section" houses the Talk back level control for the electret microphone and the Studio section, usually used to monitor the PROGRAM output, with the ability to switch to from Air, from SUB or the Control Room Monitor signal. When the studio mic is open the studio output is muted, indicated by the studio MUTE LED.

The studio output is fitted with a Talk-back switch Communication is very important in broadcast studio's, so we decided to go for three separate outputs. One for Studio, one for Guest's) and one for the Announcer.

All outputs receive the same signal that is selected by the input selection switches, or the Program output signal when no switch is activated.

The Studio output has a mute LED indicator when the output is muted.

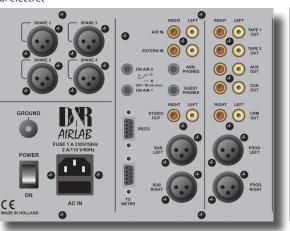
All three outputs have a direct Talk back access switch for instant communication between control room and presentation area.

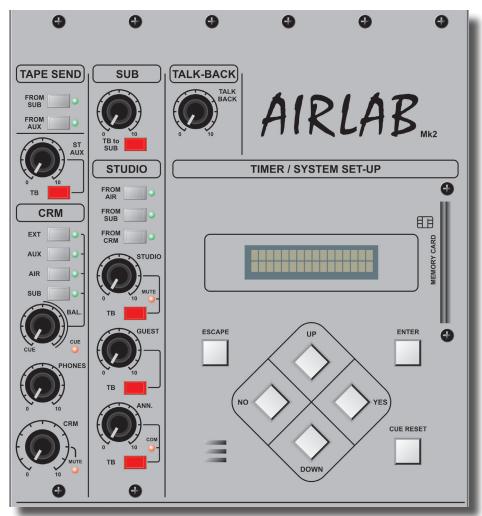
The Cue buss is the main communication buss in the console. When a listener calls the station, by pushing the Cue switch of the Telco module you have him or her directly on the control room monitors.

At the same time the internal electret

microphone is activated so you can immediately respond. The announcer can depress his remote communication button and is linked to the same Cue buss, so that is three of you talking with each other.

The AIRLAB has four VU meters of which two are always connected to the main outputs and the other two are following whatever is heard on the CRM.





# SOFTWARE CONTROLLABLE SET-UP CAN BE STORED ON A CHIP CARD.

A speciality of the AIRLAB is its ability to program all sorts of internal settings and then save it to a personalised chip card for instant reset. The following settings can be programmed.

- \* Module set as DJ mic input.
- \* Module set as Announcer mic input.
- \* Module set as Studio mic input.
- \* Start/Stop plus Pulse/Cont per module.
- \* Cue start active
- \* Fader start or "ON" start per module.
- \* External remote (in)active per module.
- \* Timer start pulse per module.
- \* On-Air control signal on/off per module.
- \* Auto communication Announcer on/off.
- \* Auto CUE reset on/off.
- \* Auto CUE on/off.

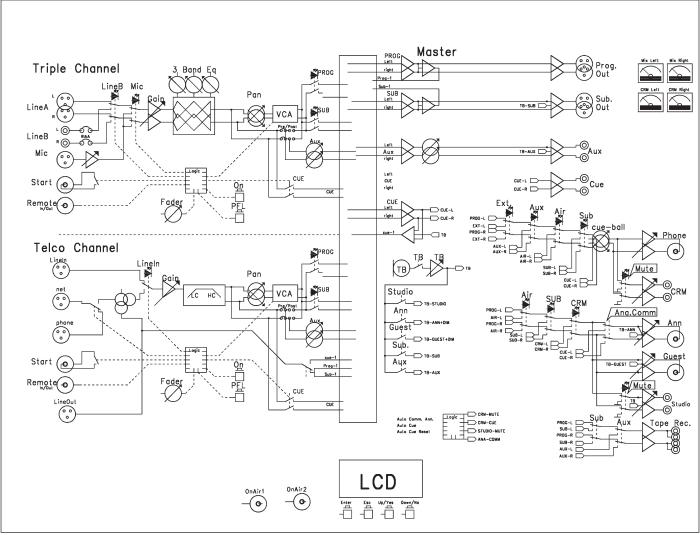


# A BUILT IN TIMER MODULE EXTENDS THE POSSIBILITIES OF THE AIRLAB.

There is a Timer function built in the AIRLAB for time related measurements such as duration of an incoming/outgoing call. Timer set-up can be software controlled and stored.

The AIRLAB is D&R's latest addition to a growing series of broadcast consoles. Its high quality clean audio path with a minimum of hardware switches in the audio path is your guarantee that this is a reliable radio console for daily broadcast for many years to come.





## **SPECIFICATIONS**

INPUTS:

Mic inp: bal. 2kOhm - 128dBr (40dB gain range plus 30dB of trim range) Line inp: bal 10kOhm +/- 20dB gain range. Telco input: (XLR) 10kOhm bal. 0dBu nominal. CMRR: mic input max.. gain: 1kHz 85dB Line inp: max gain 1 kHz 80dB

### **EQUALISATION:**

+/- 12 dB @ 10kHz shelving +/- 12 dB @ 3kHz bell curve +/- 12 dB @ 60 Hz shelving Low Cut: 80Hz. 12dB per octa

Low Cut: 80Hz, 12dB per octave (mic only) Low Cut: 200Hz, 6 dB per octave (Telco only) High Cut: 8 kHz, 6 dB per octave (Telco only)

# OUTPUTS:

Left/Right: +6dBu electronically balanced (transformer balancing is an option)
Sub: +6dBu electronically balanced.
All other outputs: +6dBu unbalanced.

# OVERALL:

Frequency response: 20-20.000 Hz +/-0.5dB Harmonic distortion: 0.035% (VCA in, 2nd harm)

Crosstalk: less than -90dBr

Noise: -86dBr

Headroom: +22dB internal, 16dB on outputs Mix-Minus rejection: @1kHz -60dB Channel fader attenuation: 1kHz, 100dB

# **REMOTES:**

All channel remotes are on stereo jack sockets. Start/Stop switching is by isolated reed relays.

## **DIMENSIONS AND WEIGHT**

50 kg / 110 Lbs Drop through mounting hole dimensions: 590mm x 775mm

For more info on this and many other broadcast consoles contact your nearest dealer or

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