

AIRLITE

Radio for Everyone...



PRODUCTION | ON AIR CONSOLE

Eight dual inputs
Built in auto Silence detector
4 USB in/out stereo channels
Play out USB control section included
AES 3 digital program output optional
Drop through design

Ideal for Production, Voice tracking and On-AIR
CRM, Announcer and Phone outputs
Bi directional Cue communication buss
Built in VOIP functionality
Cleanfeed output for external Hybrids
Internal NON STOP switching



Your Personal Radio Control Center

MIC, LINE, USB and INTERNAL VOIP

The AIRLITE mixer offers unparalleled versatility. With three balanced, phantom-powered mic inputs featuring inserts for voice processors, along with eight stereo line inputs, four USB channels, and one Telephone VOIP channel, it covers all your connectivity needs. The AIRLITE mixer redefines efficiency and performance in broadcasting.

With its Cleanfeed output, analog phone line connections seamlessly integrate with external Hybrids, ensuring crystal-clear communication. But here's the real game-changer: despite its array of features, the AIRLITE simplifies your setup with just one physical USB connection. This single interface effortlessly handles four stereo audio channels to and from your PC, while also managing control data from the intuitive control section and software meter application. Streamlining your workflow, it maximizes efficiency and delivers unparalleled performance.

The dedicated VOIP Channel 8, with its own USB connector, accepts incoming calls from other PCs, offering seamless connectivity. Plus, with the option to connect to a second USB connector on your main PC, versatility is at your fingertips. Dedicated Talkback to the VOIP channel ensures effortless conversations with callers, while the Cue bus doubles as a communication bus, facilitating discussions between announcers and callers during outside broadcasts. The AIRLITE boasts a 3-band Equalizer on channels 1-3. The stereo Aux send can be selected pre or post-fader, offering flexibility in routing. And to top it off, all high-quality, low-noise mic inputs feature a built-in low-cut filter, ensuring pristine sound quality in every broadcast.

Introducing the AIRLITE mixer: your gateway to modern radio broadcasting at an irresistible price point. Crafted with precision and reliability in mind, this handbuilt marvel boasts proven low-noise circuitry for pristine sound quality. But it's not just about quality - the AIRLITE is smart too.

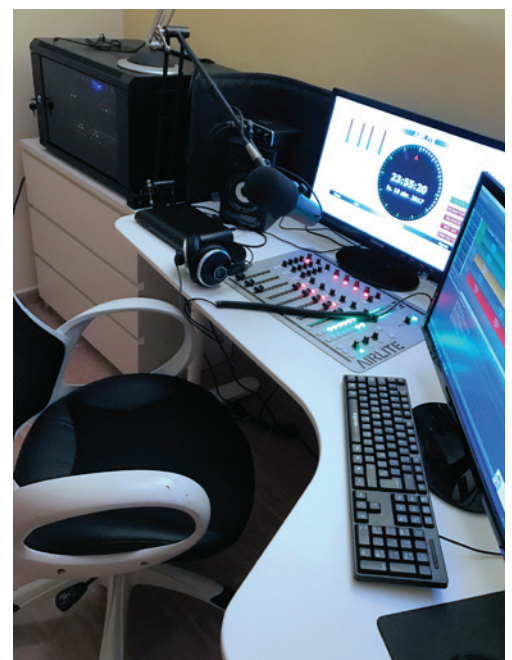
With an internal USB control section, it streamlines daily operations, complete with a built-in silence detector for seamless performance. Perfect for the self-op production D.J., it features 3 ultra-low noise Mic inputs, along with 4 in/out channels of stereo USB and integrated Telephone VOIP functionality.

From ON-AIR to Production, and even streaming to the web, the AIRLITE excels in every aspect. Seamlessly integrating with your Play-out software, it effortlessly handles up to 4 stereo channels, all housed within a robust RF shielded chassis with sleek rounded corners for a modern aesthetic. With its powder-coated front panel ensuring durability, and backed by over 52 years of D&R's expertise, the AIRLITE is a testament to excellence in broadcasting technology.



SMART MODULE PROGRAMMING

Customization is key with the AIRLITE mixer, and the included software program page puts you in the driver's seat. Each of the eight modules has its own dedicated page, allowing you to tailor settings to your exact specifications. Want to reset Cue with Line, Mic, Fader, or On triggers? No problem. You can even choose whether to have a 10dB fader gain or not, giving you precise control over your audio levels. Activate both ON-AIR busses 1 and 2 with Line or Mic inputs, offering flexibility in your broadcasting setup. And here's where it gets really exciting - customize your switch colors to suit your preferences, adding a personal touch to your workspace. But the customization doesn't stop there. With the ability to individually program Phantom power ON or OFF per channel, you have total control over your audio inputs. And the best part? All settings can be easily stored and loaded with the click of a button, ensuring consistency and efficiency in your broadcasting setup. With the AIRLITE mixer, your broadcasting experience is truly in your hands.



AIRLITE - USB

STRAIGHT FORWARD MASTER SECTION DESIGNED WITH RADIO IN MIND

The master section of the AIRLITE mixer is purpose-built for radio broadcasting, consolidating all essential controls for seamless operation. Here, you'll find everything you need at your fingertips: from the stereo Aux send and return to the Control Room Monitor (CRM) and Announcer outputs, alongside a high-level phones output for convenience. What sets the AIRLITE apart is its intelligent design.

With features like Auto CUE, both Announcer and CRM outputs can be seamlessly followed, ensuring smooth transitions during broadcasts. And when it comes to precision, the CUE reset function cancels all activated Cue selections, keeping your audio cues in check. But it's the finer details that truly elevate the experience.

The Control Room Monitors are automatically muted to adjust to the DJ Mic's activity, maintaining optimal sound levels in the control room. Plus, with the ability to route the Studio output (announcer) through Auto Cue, any selected Cue signal can be heard, adding flexibility to your broadcasting setup. In essence, the master section of the



AIRLITE mixer is more than just controls - it's a sophisticated hub tailored to the needs of radio broadcasters, ensuring smooth operation and impeccable sound quality with every broadcast. The AIRLITE simplifies communication with three dedicated Talk-back switches, each activating the built-in electret microphone. What sets it apart is the flexibility: with its own gain control, the microphone ensures clear communication to VoIP, Announcer, and Aux channels. Talk-back is available simultaneously across all outputs, enhancing coordination and efficiency during broadcasts. Whether you're communicating with remote guests via VoIP, coordinating with announcers, or providing instructions through auxiliary channels, the AIRLITE ensures that your

message is heard loud and clear across the board. With its intuitive design and versatile features, the AIRLITE is the ultimate tool for seamless communication in radio broadcasting.

SMART MASTER PROGRAMMING

The master section of the AIRLITE mixer offers a multitude of options. From adjusting Silence Detection parameters like Threshold and Interval time to selecting the source, you have full control over ensuring seamless operations. Additionally, the ability to invert GPO 1 and GPO 2 triggering outputs adds another layer of customization to suit instructions through auxiliary channels, the AIRLITE ensures that your message is heard loud and clear across the board. With its intuitive design and versatile features, the AIRLITE is the ultimate tool for seamless communication in radio broadcasting. And when it comes to the CUE bus, the AIRLITE goes above and beyond. With the option to set it for interlocking, selecting a new CUE automatically deactivates the previously selected one, simplifying your workflow and preventing confusion. The AIRLITE empowers you to tailor your mixer precisely to your needs.



All you need to make Radio...

MIC LINE INPUT CHANNEL

The AIRLITE sets a new standard with its internal USB voice tracking bus, seamlessly integrating with play-out systems like our AIRCAST software.

A dedicated, ultra-low noise mic input, coupled with a versatile 3-band equalizer, feeds into a smooth-running fader that controls a stereo VCA. Say goodbye to noisy faders - our innovative design ensures pristine sound quality every time. Plus, with electronic fader start detection, you can trust that your transitions will be seamless and precise.

But the AIRLITE isn't just for live broadcasting - it's a versatile tool for production too. Engage the NON-STOP mode, and the first USB channel is automatically routed to the main outputs, ensuring uninterrupted playback even during production sessions. Communication is key in broadcasting, and the AIRLITE makes it effortless.

The CUE switch doubles as a communication system, allowing easy interaction with callers from outside. And with "fader-start" capabilities on both the ON switch and fader, initiating playback is as simple as a touch.

But we don't stop there - included with your AIRLITE is a software configuration manager, allowing you to tailor your settings to your exact preferences. Whether you're in the studio or working from home, the AIRLITE is your perfect companion for ON-AIR Internet radio production

AIRLITE USB CHANNEL

The versatility of the AIRLITE extends to its USB channels, seamlessly accommodating stereo sources from play-out systems like our AIRCAST. With individual gain controls, you have precise control over levels, while the CUE switch allows for pre-listening. Tracks can be activated with the ON switch or via faderstart, controlling the VCA for pristine sound quality.

But what if you're running a vintage station with CD players? No problem. Simply switch the USB input to stereo line mode, accommodating a wide range of playback sources.

Communication is key in broadcasting, and the AIRLITE makes it seamless.

The CUE switch doubles as a communication bus, allowing callers on the VoIP channel to listen to music and DJs without being on-air, enhancing interaction and engagement. With four USB stereo inputs and outputs, inputs are internally routed to channels 4 to 7, with the USB input of channel four also routed to the Non-Stop switch.

Outputs, acting as inputs on your PC, are connected to the Program output, Aux send, Voice track, and Air-In.

Speaking of Air-In, this input can be connected to your external processing unit, enabling direct streaming of your processed signal to the internet without the need for an extra sound card.

With its comprehensive USB routing capabilities, the AIRLITE ensures seamless integration delivering unparalleled performance and flexibility.

VOIP CHANNEL

Channel 8 of the AIRLITE mixer is exclusively dedicated to Voice Over Internet Protocol (VoIP), ensuring seamless integration with your PC-based telephone services. Simply connect the dedicated VoIP USB cable from the mixer to your PC and establish a connection with your chosen VoIP service provider, whether it's SKYPE or another provider offering internet-based telephone services.

With separate Gain and VoIP send controls, you have precise control over send and return levels, ensuring optimal audio quality.

Incoming calls can be easily picked up with the CONN button, pre-listened with the CUE switch, and seamlessly integrated into your radio show with the ON switch and/or fader.

For those who prefer analog hybrids, we've got you covered. An additional cleanfeed output on the back of the console allows you to connect an external hybrid, returning the signal to the VoIP channel via the LINE input.

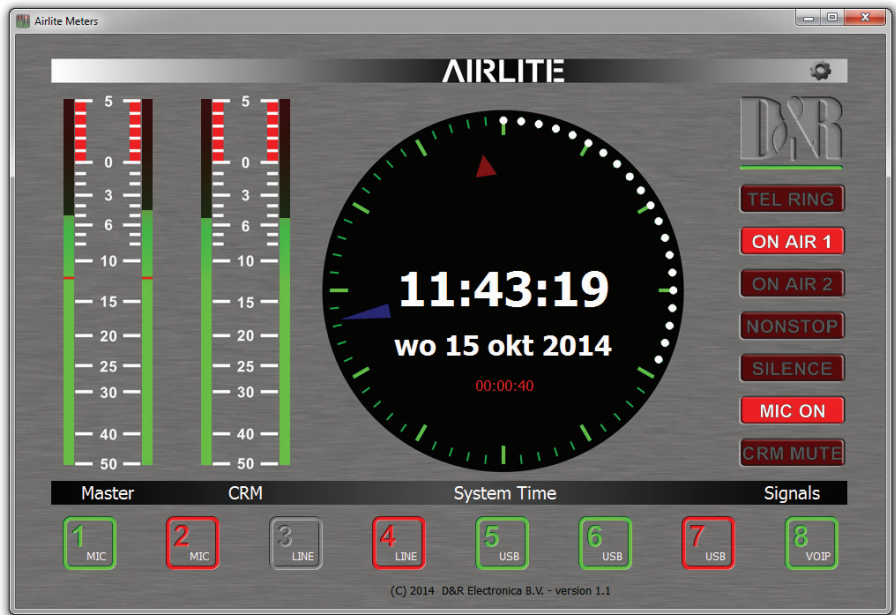
But communication doesn't end there. The built-in electret Talkback microphone can be routed to the caller outside the broadcast simply by activating the TB to VoIP switch in the master section.

Alternatively, you can use your DJ microphone by activating the CUE switches in both the DJ channel and the Telco channel, ensuring clear and efficient communication during your broadcasts. With the AIRLITE mixer, staying connected has never been easier.



Back panel view

The Software



USB CONTROL SECTION

The AIRLITE mixer puts control at your fingertips with 16 illuminated switches on the right side, each capable of managing functions within your Radio Automation software, whether it's triggering jingles or recording voice tracks while ON-AIR. Included in the package is USB control software, allowing easy programming to enhance your radio experience. You have the flexibility to assign any switch to control functions in your play-out software, tailored to your preferences.



Master controls in the master section govern Announcer, Phones, and CRM, ensuring smooth operation and optimal sound quality. With Auto Cue activated for CRM and the Announcer, any selected CUE can be heard. When the DJ mic opens, the CRM automatically mutes to prevent feedback, provided that CRM Auto Cue (auto deactivate) is set to ON. But communication remains seamless, with TALK BACK accessible directly on the right-hand side, ensuring easy interaction with all important outputs. And for quick transitions, the NON-STOP switch instantly routes the first USB stereo signal (channel 4) to the main outputs, making the mixer available for (pre)production at a moment's notice. With the AIRLITE mixer, radio production becomes not just efficient, but truly exciting.

POWER SUPPLY AND MORE

The AIRLITE operates with reliability and versatility, powered by an external heavy-duty switched-mode power supply compatible with AC voltages ranging from 90 to 230 volts.

Its control surface is designed for seamless integration into furniture setups, easily mounted as a drop-through unit.

Connections are a breeze, with all input and output connections conveniently using standard Jack, Cinch, and XLR connectors. Power supply input is via a low-voltage 5-pin XLR connector, ensuring efficient and stable operation.

With its user-friendly design and robust construction, the AIRLITE is ready to meet the demands of any broadcasting environment.

SOFTWARE

The AIRLITE utilizes USB to transmit control signals, allowing for advanced functionality such as displaying main output signals on a TFT screen (not included) through a beautiful meter application.

Program and CRM stereo signals are depicted on a high-resolution PPM, providing precise monitoring.

On the right side of the screen, you'll find indicators for various console functions, including ON-AIR 1 or 2, NON-STOP mode, Silence Detection, Mic-On, and CRM mute. Channel status and input selection are conveniently displayed at the bottom of the TFT screen.

But that's not all - the software application also features a professional-looking Radio clock, synchronized with your local PC and an NTP time server.

With its intuitive interface and comprehensive features, the AIRLITE ensures seamless operation and precise monitoring for all your broadcasting needs.

SUMMARY

The straightforward and intuitive design of the AIRLITE makes it the perfect companion for quick, on-the-spot radio programming. Compact yet reliable, it's an ideal choice for production rooms, offering versatility and efficiency. Whether you need an On-Air mixer or want to establish your own Internet Radio station, the AIRLITE delivers exceptional performance.

For those seeking additional information beyond what's provided in this brochure, our website at www.dnrbroadcast.com offers comprehensive details. There, you can download the manual for even more in-depth information, ensuring you have all the resources you need to make the most of your AIRLITE mixer.

INPUTS

Mic inp : bal, 2 kOhm, XLR, 48 volt Phantom.
Noise : - 128 dB (A-weighted).
Sensitivity : - 70dB min, OdB Max.
Insert : Jack unbalanced send 600 Ohm -10dBv.
Aux Ret. : 10kOhm -10dBv unbalanced
Line inputs: 10kOhm, Cinch unbalanced
Gain : 40dB range
USB : 4x Stereo in and 4x stereo out.
Air input : - 10 dBv at 10kOhm stereo
Aux ret. : - 10 dBv at 10kOhm stereo

USB

Fully compliant with USB 2.0 playback and record mode. 4x Stereo in and 4x stereo out.

USB CONTROL SECTION

16 free assignable illuminated switches based on the HID protocol.

VoIP CHANNEL

Dedicated USB connector for VoIP processing.

OUTPUTS

Left/Right : + 6dBu bal./XLR. -10dBv/Cinch
CRM/Aux : + 6dBu unbal. on Cinch.
Headphone : 16-200 Ohm, Jack. (TPA 6120)
Announcer : 16-200 Ohm, Jack. (TPA 6120)
USB out : Program/Aux/Voice track/
Non Stop

EQUALIZER

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

OVERALL

Frequency response : 10 - 60.000Hz.
Distortion : < 0.01% max at 1 kHz.
GPO/Mic On : Opto/FET's. (24volt/50mA).
Led bars : 16 segment leds.
: + Software meter application.

CONTROL SOFTWARE

A software program is included in the delivery for programming the Control section (Airlite Virtual Keyboard Mapper) and internal mixer settings.

DIMENSIONS

Left-Right : 482mm
Front panel thickness: 2mm
Radius Corners : 20mm
Front-Back : 365mm (8HE).
Height : 101,50mm.
Weight : 9kg.
Drop through hole : 449 x 344 mm



Signal Flow

