

# Series 52 Mixing Console

# RX2



[www.dhd-audio.com](http://www.dhd-audio.com)

**DHD.audio**

Digital Broadcast Technology

Made in Germany

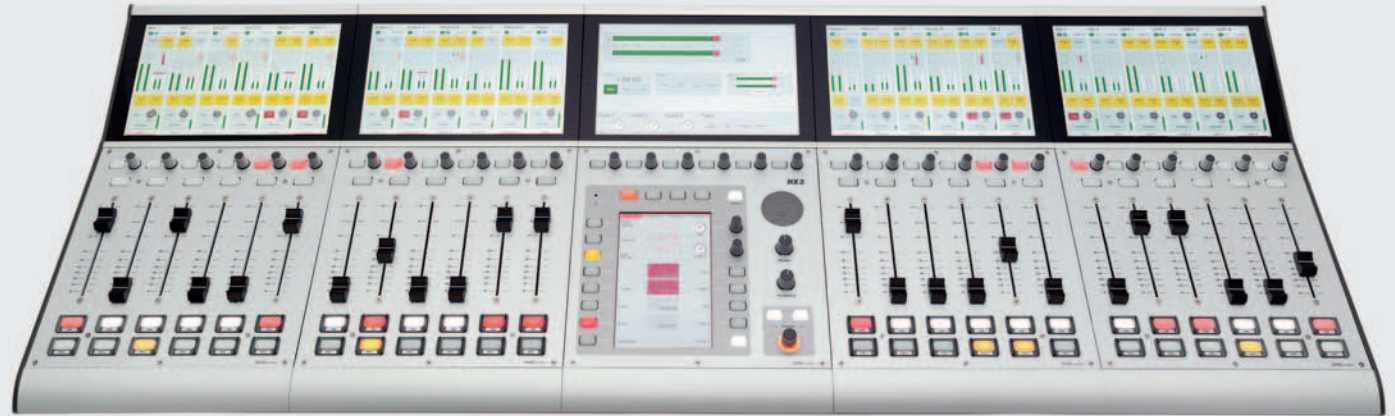
# Versatile Modules – Full Features

## Maximum Flexibility for All Broadcast Applications

Developed for the highest demands in radio and TV broadcast environments, the RX2 is perfect for modern workflows in on-air studios, main control rooms and OB vans.

A large 10.1" touch display for each console section provides you with all options to configure a mixer layout with exactly those buttons, meters and settings you need. Thanks to UTF-8 support, you can even use the characters of your local language. This makes daily on-air production quick and easy.

An outstanding feature are the switchable functions for the hardware buttons in the central section. With adaptive labels in the vertical display, it provides fast and tactile access to all important mixer functions, for example monitoring and talkback.



## Versatile Control Modules with I/Os

The RX2 modularity gives you the freedom to build a mixing desk that will just fit. This versatile console series ranges from compact sizes of 6 or 12 faders for smaller production units to big control-room consoles with up to 60 faders.

Two different RX2 modules are available: a central module (52-5810) and a fader module (52-5820).



rear view of RX2 Central Module - 52-5810

Both types are equipped with a super-bright 10.1" touch display for channel settings and central control.

In addition, the central module has a vertically arranged 7" multitouch display. This display acts as digital label for the adjacent switch-function hardware buttons and encoders.

The central module provides the most important audio I/Os. A microphone input and a headphones output are included, and you can also connect your loudspeakers directly to this unit, thus reducing necessary rack space and cabling work.

Each fader module has 6 high-quality motor faders. The channels are extended on the touch display for metering,

routing and DSP settings. With Toolbox9 you can configure the functionality of the silent pushbuttons according to your workflow. Thanks to RGB LEDs, you can choose any colour for signalisation.



## Fader Module 52-5820

### TFT controls for each channel

- channel name
- PGM and AUX bus routing buttons
- channel input meter
- gain settings
- channel name

### Flexible fader encoders

- function according to TFT content
- control of gain settings, AUX sends, parameters of EQ and dynamics

### Professional high-grade 100 mm motor faders

### Flexible pushbuttons in each channel

- silent, multicolour (RGB)
- individual button functions, e.g., ON, OFF, PFL, Access, Layer or Talk
- buttons below faders have a label area for clear function naming



## Central Module 52-5810

### TFT controls for central functions

- main control
- metering
- channel settings
- snapshots

### Flexible central encoders

- function according to TFT content
- control of EQs or dynamics
- volume control of guest headphones
- monitor selectors

### Talkback microphone with built-in preamp

### Ambient light sensor for automatic console brightness control

### Pre-listening & talkback speaker with built-in amp

### Professional high-grade volume potentiometers

### Silent multicolour (RGB) pushbuttons

- flexible functions with labels on vertical multi-touch display
- monitoring section, expanded by touch-display selector

### Main control encoder

- selected TFT elements can be controlled with this illuminated physical knob



All modules are separate table-top devices. Each fader module comes with a chaining kit for optional physical connection of modules.

The RX2 modules are designed for easy maintenance and low power consumption (max. 25 W per module).

## Additional Control Panels - Fully Integrated

The TX Touch Mixer is the perfect companion for the RX2 mixing desk. Its 10.1" TFT screen puts you in control, no matter where you place it: next to your RX2 mixer on a news presenter's desk, inside the studio as monitoring unit or stand-alone on the desktop as a producer panel.

Using the Toolbox9 software, you can design touch-screen layouts exactly for your application. You can show level meters, clocks, DSP parameters and buttons. This flexibility allows to create customised layouts for with a strong focus on the required functionality, be it mixing, monitoring or control of a payout system.

Featuring a built-in talkback microphone and loudspeaker, the 52/TX is also a perfect talkback unit or monitoring controller.

With the integrated high-quality microphone input and headphone output, the most important connectors are available directly in the device for telephone interviews or dubbing.



52/TX - Touch Mixer

## The DSP Core, Heart of the System

The signal processing core of the RX2 is contained in a compact, low-power 1 U module. DSP cores from the XC2 or XD2 product lines can be used. This specialised and rock-solid hardware does all the audio and logic processing in the system.

The new core modules provide enough processing power for instance to handle an audio matrix of up to 8704x7424 signals and up to 64 fully processed stereo faders at the same time.



52/XC2 Core

Our core systems work without hard discs or batteries, and there is no PC inside. All I/O modules, concentrators and control surfaces are fanless. This allows silent studio operation and reduces maintenance to a minimum.

Connectors for audio and control signals come as separate XLR-I/O modules with half-rack width and 1U height. You can choose the matching devices for your application and connect them to each other using CAT 5/6 cables.

The cores are natively ready for audio over IP - you can choose between Dante™ or AES67/RAVENNA. There are also modules available for interfacing analogue and digital audio, MAD1 and GPIOs. All control modules and TFT touch displays use Ethernet to communicate with the core module.

Third-party systems can use either Ember+ via Ethernet, a serial connection or GPIOs to interface with Series 52 mixing consoles.



52/XD2 Core

- Mixing
- Routing
- Controlling
- Networking
- Switching