

Series 52 Modular Mixing Console

52/MX



www.dhd-audio.com

DHD.audio

Digital Broadcast Technology

Made in Germany

Exceeding your Expectations

4 Faders for DJs and Journalists

All features, small footprint. Especially non-technical users have full control without too much complexity.



12 Faders for On Air Engineers

Just what you need – the mixer for standard studios or small OB vans. It is straightforward to use, self-explanatory and has a comfortable number of faders.



Control and Talkback Box

No faders, but enough buttons for monitoring, outside line control and talkback.

Take a CAT5 cable and connect this box to your DSP core if you need a speaker and "just a few buttons more".



20 Faders with Layers for On-Air Production and Control Rooms

Main control, OB van or studio – it is easy to create your custom console from the variety of available control modules.

Every fader strip provides many control elements for quick direct access. The TFT touch screens show signal levels and settings for each fader at one glance. Both features are essential for mixing live.

The central section provides all features you need for monitoring, talkback and control – including its own TFT.

The central TFT touch screen shows detailed information for selected channels, routing panels, a studio clock and level meters.



Exploring the Features

Modularity Redefined

The 52/MX takes audio mixing to a totally new level in flexibility. Many different control modules are available – just pick what you need for your application. They all fit together seamlessly and give you the control surface you want. No matter if you need a mixer for a small editing suite, a live DJ desk, an OB van or even a large-scale main control room console – it is easy to tailor the mixer according to your requirements.



R.SA on-air studio, Leipzig (Germany)

All control modules are connected via standard CAT 5/6 cables, which provide audio, power and control data. This gives you the freedom to place modules in the furniture as you like, without worrying about cable lengths. That way, you can build the mixer according to how you work and not the other way around. Add the advanced interface capabilities of the TFT multitouch screens and you get a truly flexible audio mixer.



TBS television studio 1, Seoul (Korea)

Flexibility for Your Application

The Series 52 is not just hardware – the real power is the configuration. With an easy-to-use Windows software, you can configure the behaviour of the system to match your application. If things change later on, it is no problem to adapt your installation. This is especially useful if a studio needs to support new or changing workflows in the future.



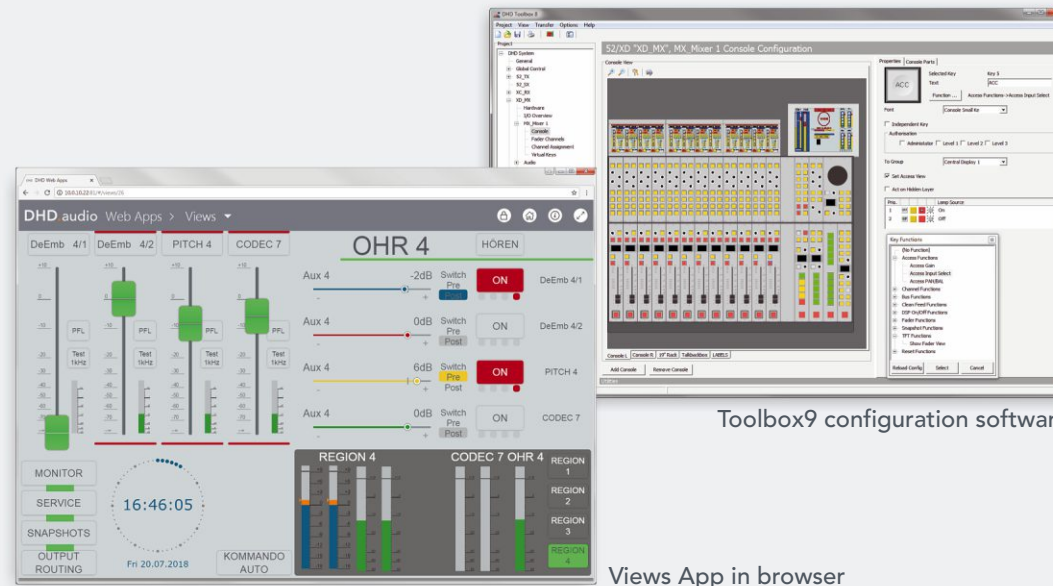
Eldorado broadcasting studio, RTL City, Luxembourg

Fitting Your Installation

Configuration Made Easy

To get a 52/MX system up and running, it is configured using the Toolbox9 software. This configuration process is typically done by DHD or your system integrator and implements your requirements into the system. This configuration is what makes your system work.

However, if you need to change it later on, just use the Toolbox9 software again and you are done.



Made for Broadcast

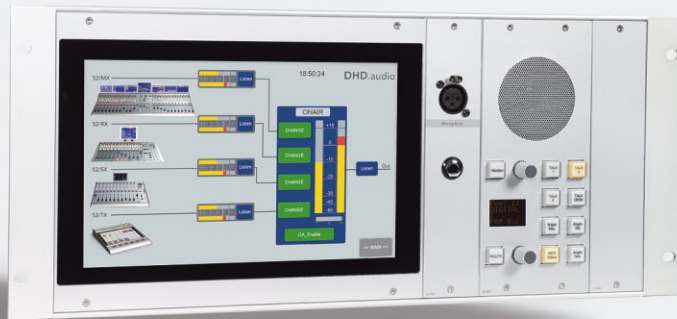
The standard system can be enhanced by features that are required in many broadcast environments:

- automix
- 5.1 surround processing
- delay for each fader channel
- loudness meters which are shown on the TFT touch displays

You can also use the Views App web application to control and monitor your mixer from a browser window on any device.

TFT Touch Screen in Control

The TFT touch screen is a key element for flexible and direct control of the Series 52 products. It shows great performance and can be mounted in various positions: above fader or control modules, stand-alone as a 52/TX on your desk, flat or slightly lifted in the furniture or even upright in a rack unit. Using the configuration software, you can put many different functions into the TFT.



Full Features: Rack-Mounted

Mixer control modules in a rack? The Q-Panel system can be used for monitoring, talkback and router control. Pick the modules you need, arrange them in the Q-Panel housing (1 U high), find a free slot in your rack, and your problem is solved. Use it as a stand-alone device or as part of a larger setup – it's all up to you. The Q-Panel is always configured with the Toolbox9 software.



DSP Power as Required

The DSP Core, Heart of the System



52/XC2 Core (rear view)



52/XD2 Core (rear view)

The signal processing core of the 52/MX is contained in a compact, low-power 1 U module. DSP cores from the 52/XC2 or 52/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 even the most demanding applications. If necessary, they can handle an audio matrix of 8700x7400 signals as a router and up to 64 fully processed stereo faders at the same time.

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 are available as XLR-I/O modules with half 19-inch width and 1 U height. You can choose the matching devices for your application and connect them to each other using CAT 5/6 cables.

There are modules available for interfacing Dante™ or AES67/RAVENNA AoIP streams, MADI, analogue and digital audio. All control modules and TFT touch displays use Ethernet to communicate with the core module.

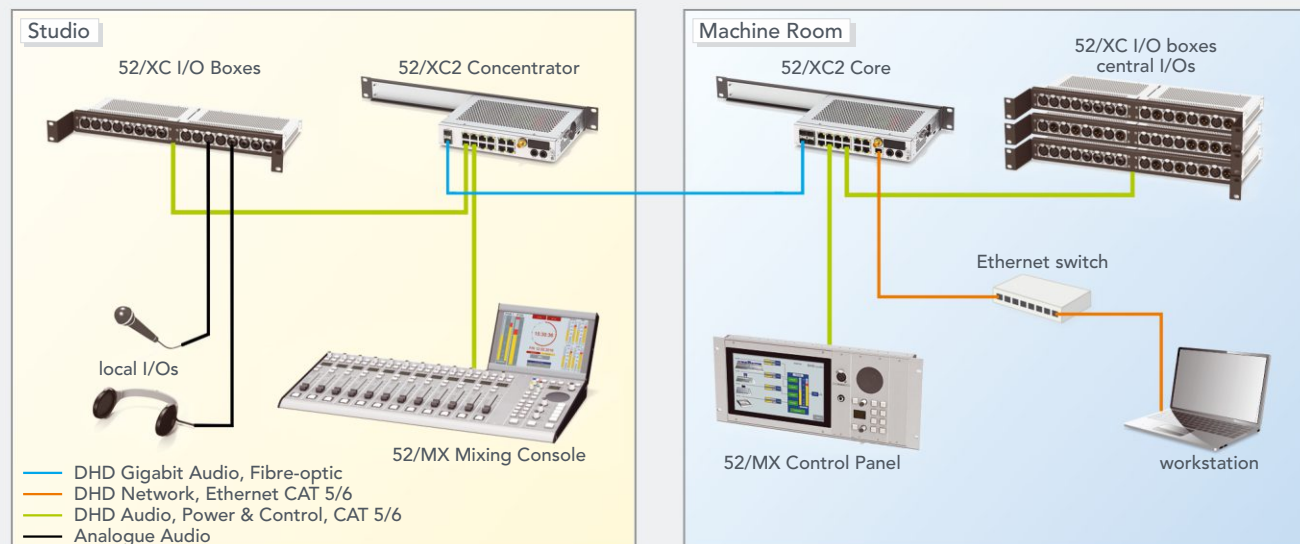
Systems from third parties can use Ember+ via Ethernet, serial connection or GPIO to interface with Series 52 mixing consoles.

Made for a Distributed System

The 52/XC2 Core provides 12 APC ports. These special RJ45 ports connect control modules and I/O boxes to the core. This connection is made with standard CAT cables, which carry Audio, Power and Control signals in the same cable – hence the name APC.

This way, your setup benefits from standard CAT cabling infrastructure and allows you to place I/O boxes and control modules right where they are needed.

If you need more than 12 APC ports, you can extend the 52/XC2 Core with up to eight 52/XC2 Concentrators. Each of these modules provides 12 additional APC ports and is connected to the 52/XC2 Core with a fibre-optic cable. Of course, all audio and control data in the system is available at all APC ports.



example of a distributed installation with studio and machine room

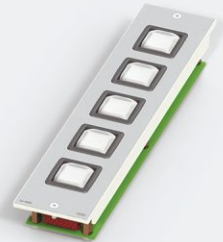
Real Modularity

Specifications and design in this document are for information only and subject to change without notification.

version 2018-08-16



52-4516A
Pushbutton Module



52-4505A
Pushbutton Module



52-4592B
Mic/Headphone Plate



52-4305B
Potentiometer Module



52-4308D
Control Module



52-4527D
Loudspeaker Module



52-4230D / 52-4231D
Fader Module /
Fader Module (Motor)



52-4260D / 52-4261D
Fader Module /
Fader Module (Motor)



52-4402B
Control Module



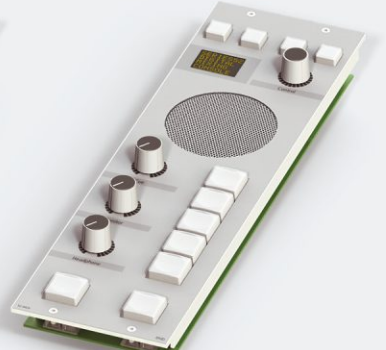
52-4411A
Pushbutton Module



52-4412D
Control Module



52-4414A
TFT Control Module



52-4424D
Loudspeaker Module



52-4304A
TFT Encoder Module



52-4306A
TFT Encoder Module



52-4510
TFT Display, multitouch, IPS, 10.1" for housing



52-4010
TFT Display, multitouch, IPS, 10.1"



52-4018
TFT Display, multitouch, IPS, 7"

Find out more at www.dhd.audio

- Mixing
- Routing
- Controlling
- Networking
- Switching