

# DYNAMAX<sup>®</sup> MXA Series

Fidelipac Broadcast consoles have earned a reputation for reliable performance throughout the world. Ease of installation combined with steel construction and serviceability provide years of hassle free operations. A simple user friendly control surface eliminates confusion. Foremost among its features is the true modular construction of the MXA, with interchangeable modules carrying all of the channel electronics, no active components are mounted on the consoles input motherboard. The use of Voltage Controlled Amplifiers (VCAs) eliminate scratchy, noisy input faders and level controls. Gold-plated edge connectors provide highly reliable motherboard connections. The fully modular input mixers can be removed quickly and replaced, without shutting down console operations.



Model MXA6

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## The Right Features

The Dynamax MXA Series is a true breakthrough in the field of cost-effective audio mixing consoles. Never before has such a combination of quality and features been offered at such an affordable price.

MXA Series consoles have a spacious, easy to use layout, and are available with either rotary or linear faders.

All modules feature a virtually indestructible control surface overlay, far more durable than paint or silk-screening, ensuring that your MXA Series console will look as good as new for years to come.

The standard count-up event timer can be triggered by turning on any module. A full range of actively switched cue and monitoring functions is provided, including a built-in cue amplifier and speaker, and an amplified headphone output. Internal jumpers allow configuration of monitor muting and dimming to meet your operational requirements.

The MXA Series uses the highest quality components and construction techniques, resulting in excellent RF immunity and a rugged, sturdy product that will last many years. High performance Bi-FET op amps provide superior audio while substantially reducing heat. The console's modular design and hinged hood simplifies routine maintenance and allows quick, easy access to all console circuitry.



- True Modular Design
- Ultra-reliable motherboard construction
- VCA mixer and monitor control
- Active balanced line inputs
- Active balanced main monitor outputs
- Full monitoring/cueing facilities with VCA level control and active source selection
- Built-in cue amp with speaker and amplified stereo 8-ohm headphone output
- Independent level controls for each 'A' and 'B' input
- Independent remote start for each 'A' and 'B' input
- Opto-isolated remote module on/off
- Selectable fader start
- Two inputs per module, mic/line or line/line - line  
inputs may be mono or stereo, consumer or professional format
- Two input expansion switches standard
- Four assignable outputs - two stereo plus two mono
- Separate audio and logic power supplies
- Sturdy, all-steel construction
- Four assignable outputs - two stereo plus two mono
- Durable Lexan overlay control surfaces
- Rotary or linear faders
- Count-up event timer standard
- Excellent RF immunity

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## A Truly Modular Console

The MX Series asks you to make no compromises. Each input module includes all of the active circuitry necessary for its operation. The MX Series precision motherboard has no active electronic components, so you'll never have to disassemble the entire console to replace a single component. Ultra-reliable motherboard construction minimizes hand wiring, and totally eliminates flimsy and awkward ribbon cable module bussing.

Many other consoles claim to be modular, but close inspection reveals that the "modules" carry only switches and faders. In these consoles, active circuitry is mounted on the motherboard, defeating the prime purpose of modularity: keeping the console on the air during maintenance or repair.



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## Superior Flexibility

The MX Series delivers output flexibility that rivals much more expensive consoles. Stereo Program and Audition outputs are assignable from the front panel. Two independently assignable mono outputs are incredibly useful for telephone "mix-minus," mono simulcast feeds, cue feeds for remote broadcasts and more.

Every input module has two inputs, one of which may be configured as a mic input by use of an optional mic preamp kit (MPK-2) residing on the module. One mic preamp kit is included with each console. Additional kits purchased with the console are factory installed and tested. You may add kits easily at any time to accommodate additional microphones.

All line inputs may be wired for stereo or mono input sources. Pre-fader patch points are provided to facilitate external processing. Line inputs may be either professional or consumer format, eliminating costly "matching" interfaces. Independent variable level controls for each "A" and "B" input are conveniently located permitting professional and consumer source equipment to be connected to the same module, and their levels to be adjusted without module removal.

Each input features external logic switching for starting cart machines, CD players and other audio sources when the module is turned on. Modules may be turned on automatically by simply opening the fader when the fader start option is enabled.

A continuous logic level or a pulse may be selected to remote start every console input. The modules may be externally controlled via opto-isolated inputs, perfect for news studio microphones or easy automation interface.

Voltage Controlled Amplifiers ensure that the audio path stays clean and quiet. No audio passes through the faders, so dust and dirt can't cause scratches and pops. Even the monitor level pot is VCA controlled.

Considering its true modularity, exceptional flexibility, wealth of features and premium materials and construction, the MX Series is clearly the smart choice when both value and exquisite audio quality are important. The MXA Series delivers uncompromised performance and reliability at budget friendly, affordable prices.

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# Technical Specifications

## Output

### Output impedance

Line: 200 ohms

Phones: 10 ohms

### Output Level

Line: -10 to +10dBu (+24 dBu Max)

Cue: 12 watts into built-in 8 ohm speaker

Phones: 2 watts/channel into 8 ohms

### Frequency response

Line: 20 - 20kHz (0.1dB)

Mic: 20 - 20kHz (0.3dB)

### Noise

Line: better than -90dB

Mic: -125dB EIN

### Crosstalk

Better than 80dB between any outputs @ 1kHz

### Harmonic Distortion

Less than 0.02% SMPTE

Output measurements referenced to +4dBu nominal output level

### Intermodulation Distortion:

Less than 0.03% THD, 20-20kHz

## Input

### Input impedance

Line: 20,000 ohms bridging

Mic: 1,500 ohms nominal

### Levels

Line: -15 to +10dBu (+24dBu Max)

Mic: -65 to -35 dBu

### AC Line input

100/120/220/240 VAC, 47-63Hz

## Physical Characteristics

### Mainframe

Height: 7.63" (19.4cm)

Depth: 21.75 (55.3cm)

Width: 13.75 (65.4cm)

Weight : 55lbs. (25kg) approximately