

# RMX 4050HD

PROFESSIONAL POWER AMPLIFIER  
Preliminary Specifications



## The RMX 4050HD

QSC's RMX 4050HD power amplifier represents the state-of-the-art in professional quality performance at an affordable price. Perfectly suited for a wide range of sound reinforcement applications including professional touring, performing musicians, and mobile DJs, the RMX 4050HD is optimized to deliver high levels of sustained power, extraordinary audio performance, and road-proven reliability.

Like its smaller sibling (the RMX 1850HD), the RMX 4050HD is one of two RMX "Heavy Duty" models designed to work as hard into 2-ohm loads as most competing amplifiers will at 4-ohms. With a three-tier, Class H design, the RMX 4050HD is extremely efficient at real world power levels. Less AC current is wasted and more goes into producing useful audio power. The RMX 4050HD accomplishes all this with a standard 15-Amp plug.

Like all RMX amps, the RMX 4050HD features balanced 1/4" TRS, XLR and barrier strip inputs, binding posts and Neutrik Speakon™ outputs, front-mounted gain controls, plus signal and clip LED indicators to monitor performance.

Both channels driven	20 Hz-20 kHz, 0.1% THD*	1 kHz, 0.1% THD (EIA Watts)	
Stereo (W/Ch)	8 ohms	800 watts	850 watts
	4 ohms	1300 watts	1400 watts
	2 ohms	1600 watts	2000 watts †
Bridged Mono	8 ohms	2600 watts	2800 watts
	4 ohms	-	4000 watts †

\*FTC Watts †1 kHz, 1% THD

## RMX 4050HD Features

- The RMX 4050HD provides improved thermal performance that gives you higher continuous power in 2-ohms stereo or 4-ohms bridged applications
- Dual mono, high current power supply for increased reliability and performance
- 3RU chassis only 16" deep
- Professional quality performance—incorporates road-proven QSC designs
- High-current toroidal transformers for greater two-ohm power and low noise
- Independent user-defeatable clip limiters reduce distortion
- Selectable low-frequency filters (30 Hz or 50 Hz) protect speakers and increase headroom
- Balanced 1/4" (6.3 mm) TRS, XLR, and barrier strip inputs
- Binding post and Neutrik Speakon™ outputs
- Front mounted gain controls for easy access
- Signal and Clip LED indicators to monitor performance
- 3-year warranty. An optional 3-year extended service contract is available. Ask your dealer for details.



1675 MacArthur Boulevard  
Costa Mesa, CA 92626  
Ph: 800/854-4079 or 714/957-7100  
Fax: 714/754-6174  
[www.qscaudio.com](http://www.qscaudio.com)  
email: [info@qscaudio.com](mailto:info@qscaudio.com)

## RMX 4050HD Specifications

<i>Stereo Mode (both channels driven)</i>				<i>Continuous Average Output Power Per Channel</i>	
8 ohms	FTC	20 Hz–20 kHz	0.1% THD	800 Watts	
4 ohms	FTC	20 Hz–20 kHz	0.1% THD	1300 Watts	
2 ohms	FTC	20 Hz–20 kHz	0.1% THD	1600 Watts	
8 ohms	EIA	1 kHz	0.1% THD	850 Watts	
4 ohms	EIA	1 kHz	0.1% THD	1400 Watts	
2 ohms	EIA	1 kHz	1% THD	2000 Watts	
<i>Bridge-Mono Mode</i>				<i>Bridge-Mono Mode Operation</i>	
8 ohms	FTC	20 Hz–20 kHz	0.1% THD	2600 Watts	
8 ohms	EIA	1 kHz	0.1% THD	2800 Watts	
4 ohms	EIA	1 kHz	1% THD	4000 Watts	
Distortion (SMPTE-IM)				Less than 0.02%	
Distortion (typical) 20 Hz-20 kHz: 10 dB below rated power 1 kHz and below: full rated power				Less than 0.02% 4Ω, less than 0.01% 8Ω Less than 0.02% 4Ω, less than 0.01% 8Ω	
Frequency Response				20 Hz to 20 kHz, 8 ohms, LF filter bypassed, +0/-1 dB 5 Hz to 50 kHz, 8 ohms, LF filter bypassed, +0/-3 dB	
Damping Factor				Greater than 250 @ 8Ω	
Noise (unweighted)				100 dB below rated output (20 Hz to 20 kHz, 8Ω load)	
Input Sensitivity				1.25 Vrms for 800 watts into 8Ω	
Controls		Front Panel: Rear Panel:		AC power switch, Ch. 1 and Ch. 2 gain control 10-pole DIP switch featuring LF filter on/off, LF filter 30/50 Hz, Clip Limiter on/off controls for each channel and switches for selecting Stereo, Parallel, or Bridge mode. Push-button circuit breaker for each channel.	
Voltage Gain				64x (36 dB) for 8Ω load	
Input Impedance				20 kΩ balanced, 10 kΩ unbalanced	
Indicators				Power-On: Green LED, Protect: Red LED Signal -30dB: Yellow LED, Clip: Red LED	
Connectors		Input: Output:		XLR female, TRS (1/4-inch), and barrier-strip screw terminals, each channel Binding posts and Speakon outputs (Ch. 1 Speakon wired for biamp)	
Cooling				Continuously variable-speed fan, rear-to-front air flow	
Amplifier Protection				Short circuit, open circuit, thermal, ultrasonic, and RF protection. Stable into reactive or mismatched loads	
Load Protection				On/off muting, DC fault output crowbar	
Power Requirements				100, 120 or 240 Volts AC (±10%) 50-60 Hz (factory configured)	
Dimensions				19.0" (48.3 cm) wide, 5.25" (13.3 cm) tall, 15.9" (40.39 cm) overall depth	
Weight				68 lb (30.84 kg) net, 77 lb (34.43 kg) shipping	

Specifications subject to change without notice.

