



# R-SERIES RACKMOUNT SIGNAL PROCESSORS

**DL8000R**



**AM8000R**

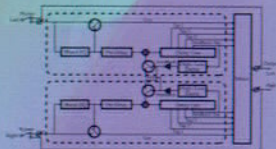


# KORG

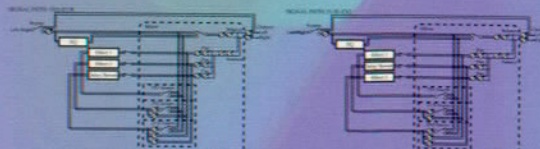
## Debuts Two Rack Effect Processors: The DL8000R and AM8000R

Attention has been paid to every detail of the audio circuitry in the new DL8000R Digital Multi-Tap Delay and AM8000R Ambience Multi-Effects Processor. With high quality, sophisticated effects algorithms and parameters, these effect processors provide advanced sound processing power at an affordable price.

Intuitive two-control user interfacing allows easy access to each unit's extraordinary processing power and ultra-large high-brightness vacuum luminescent displays allow effortless visibility under any lighting condition.



**DL8000R**  
DIGITAL MULTI TAP DELAY



**AM8000R**  
AMBIENCE MULTI EFFECT PROCESSOR



# DL8000R

## DIGITAL MULTI TAP DELAY

This versatile digital delay processor provides the ultimate in features and flexibility and continues KORG's progression of ground breaking digital delay development that began in the early 1980s.

### Superb studio-quality processing

The DL8000R is a true stereo device with extremely clean, studio-quality processing and long stereo delay times up to 5,200ms. A maximum of 10,000ms. can be achieved in mono with both delay lines connected in series!

The left and right delay lines feature independent 3 Band EQ, Pre-Delay and four delay taps each with high and low damp filters in the feedback loops. Each delay tap can be modulated by an array of sources including an internal LFO (with a selection of five different waveforms), an audio envelope, assignable controllers, and MIDI clock. A comprehensive internal Mixer allows independent programmable level, stereo panning and polarity settings for each of the eight delay taps.

### 128 phenomenal factory preset programs

The DL8000R's preset programs include many with real-time parameter control, such as "TURN THE WARP," which lets you use the front panel WARP! knob to create dramatic delay time parameter changes. The programs include an incredibly diverse selection of delay settings (mono, stereo, multi-tap, etc.), modulation-type programs such as chorus, flanger and tremolo — and even tempo, rhythm and hold-type effects that can add depth to techno and club music, for example.

The DL8000R features essential studio application programs including a group which provide delay, modulation and EQ effect settings that recording engineers frequently use, along with programs created specifically for vocals. You also get real-time control programs for use with optional pedals, MIDI-sync programs, mic simulations, cabinet resonators, and unique special effects. Of course it's also possible to modify the preset programs to create your own, and store them in the 128 memories in the user area.

### Flexible dynamic control

The DL8000R also offers simultaneous real-time control of up to sixteen parameters. Virtually any parameter can be controlled via MIDI, an expression pedal or footswitch, audio signal, or the special front panel WARP! knob. The DL8000R's specially designed DSP circuitry even allows glitch free real-time control of delay times.

### Powerful studio-friendly features

Along with the usual Time mode, where delay times are manually selected, the DL8000R features a Tempo mode. This mode automatically sets delay times using Tempo and Factor (note value) parameters. A left and right Rhythm Pattern parameter contains a selection of 21 different rhythmic delay patterns utilizing the eight delay taps.

A tap tempo function also allows setting delay times by tapping a dedicated front panel button or footswitch. An audio trigger function can detect audio peaks and automatically calculate delay times. And, delay time can be synced to MIDI clock.

### DL8000R Specifications

● Controls: Input Level (Left, Right), Output Level (Left, Right), Function Knob with Shift/Exit SW, Value Knob with Enter SW, Warp! Knob with Return SW, ms / Key, Hold Key, Trigger Key, Bypass Key, Power SW ● Programs: User Programmable 128 programs + Preset 128 programs ● Number of delay taps: L x 4 (1, 2, 3, and Feedback), R x 4 (1, 2, 3, and feedback) with adjustable level and pan ● Delay time: max. 4,800ms (L, R) / 10,000ms if pre-delay is used and delay lines are connected in series ● Input/Output Connections: Input (L/MONO, R, 1/4" phone), Output (L, R, 1/4" phone), Bypass SW Input (1/4" phone), Hold SW Input (1/4" phone), Trigger SW Input (1/4" phone), Control Pedal Input (1/4" TRS phone) ● MIDI: IN, OUT, THRU ● Display: Large high-brightness luminescent display, 12 characters alpha-numeric, 9 points function indicator, 5 points / ch level indicator ● A/D, D/A Resolution: 18bit Linear ● Sample Rate: 48kHz (128 times over sampling bitstream ADC & 128 times over sampling bitstream DAC) ● Max. Input Level: +20.0dBu ● Input Sensitivity: -10dBu ~ +8.0dBu (@12dB Head Room) ● Input Impedance: 500kΩ ● Max. Output Level: +20.0dBu ● Output Load Impedance: > 600Ω ● Frequency Response: 20Hz - 20kHz (-1.0dB) ● Dynamic Range: 96dB (@1kHz AWTD 22kHz-LPF) ● T.H.D. + N: 0.03% (@1kHz F.S. 22kHz-LPF) ● Power Supply: AC 9V ● Power Consumption: 2,000mA (max.) ● Dimensions: 19" (W) x 8.5" (D) x 1.7" (H) ● Weight: 5.5 lbs ● Accessories: AC/AC power supply, Rubber pads [0dBu = 0.775Vrms] [F.S. = Digital Full Scale Level]

### DL8000R / AM8000R Options

● XVP-10 EXP/VOX PEDAL ● EXP-2 EXPRESSION PEDAL ● PS-1 PEDAL SWITCH ● PS-2 PEDAL SWITCH

# KORG

KORG INC. 15-12, Shimotakaido 1-Chome, Suganami-Ku, Tokyo, Japan.  
KORG USA INC. 316 South Service Road, Melville, NY 11747, U.S.A.  
KORG (UK) LTD. 9 Newmarket Court, Kingston, Milton Keynes MK 10 0AU U.K.

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# AM8000R

## AMBIENCE MULTI EFFECT PROCESSOR

The AM8000R is an extremely flexible true stereo multi-effects processor useful for a wide variety of applications including single instrument, studio, and live sound reinforcement.

### Superb sound quality

The AM8000R utilizes 18 bit, 128 times oversampling analog-to-digital and digital-to-analog convertors operating at an industry standard 48kHz sampling rate. This provides a dynamic range greater than 96dB and a frequency response of 20Hz to 20kHz. The result is uncompromised processing power and audio clarity at a realistic price.

### Killer multi-effects

As you would expect from KORG, the AM8000R includes a full range of forty sophisticated internal effects. Choose from ambient effects such as a variety of delays and reverbs or from modulation effects including chorus, flanger, rotor simulator. Adding to the versatility are effects like a compressor, limiter, 3 band EQ and much more. Each effect maintains the highest quality and offers advanced parameters usually found in only the most expensive processing equipment.

In addition, the AM8000R's processing architecture allows three user assignable independent effects, (plus left and right 3 band pre-EQ), to be routed and mixed internally.

### Flexible real-time dynamic control

The AM8000R features simultaneous real-time control of up to eight parameters. Unlike many multi-effects processors which only offer control of a few preselected parameters, the AM8000R allows virtually any parameter of any effect to be controlled via MIDI, an expression pedal or footswitch, or the special front panel WARP! knob. Plus effects like Chorus / Flanger, Phaser and Filter can be further modulated by up to four types of LFOs. The results are effect parameter control as flexible as if you were actually twisting the knobs on numerous externally connected effects processors—all at once!

### AM8000R Effects List

<b>FX1/FX2</b>		
Stereo Chorus / Flanger	Ensemble	Talking Modulator
Dual Chorus / Flanger	Doppler	Stereo Compressor/Limiter
Modulation Delay	Horn Simulator	Dual Compressor/Limiter
Stereo Modulation Delay	Rotor Simulator	Stereo Gate
Dual Modulation Delay	Stereo Tremolo	Dual Gate
Tape Delay	Stereo Ring Modulator	Early Reflection
Phaser	Dual Ring Modulator	Saturator
Stereo Phaser	Stereo Resonance Filter	Stereo 3 Band EQ
Dual Phaser	Dual Resonance Filter	Stereo Ducker
Pitch Shifter	Stereo Wah	
<b>DELAY / REVERB</b>		
Long Delay	Cross Delay	Room Reverb
Tempo Delay	L/C/R Delay	Hall Reverb
Stereo Delay	Multi Tap Delay	Plate Reverb
Dual Delay	Dual Multi Tap Delay	

### AM8000R Specifications

● Controls: Input Level (Left, Right), Output Level, Function Knob with Shift/Exit SW, Value Knob with Enter SW, Warp! Knob with Return SW, FX1 mute Key, FX2 mute Key, DLY/REV mute Key, Bypass Key, Power SW ● Number of effects: 40 types ● Programs: User Programmable 128 programs + Preset 128 programs ● Input/Output Connections: Input (L/MONO, Right, 1/4" phone), Output (Left, Right, 1/4" phone), Bypass SW Input (1/4" phone), Control Pedal Input 1-3 (1/4" TRS phone) ● MIDI: IN, OUT, THRU ● Display: Large high-brightness luminescent display, 12 characters alpha-numeric, 7 points function indicator, 5 points / ch level indicator ● A/D, D/A Resolution: 18bit Linear ● Sample Rate: 48kHz (128 times over sampling bitstream ADC & 128 times over sampling bitstream DAC) ● Max. Input Level: +20.0dBu ● Input Sensitivity: -10dBu ~ +8.0dBu (@12dB Head Room) ● Input Impedance: 500kΩ ● Max. Output Level: +20.0dBu ● Output Load Impedance: > 600Ω ● Frequency Response: 20Hz - 20kHz (-1.0dB) ● Dynamic Range: 96dB (@1kHz AWTD 22kHz-LPF) ● T.H.D. + N: 0.03% (@1kHz F.S. 22kHz-LPF) ● Power Supply: AC 9V ● Power Consumption: 2,000mA (max.) ● Dimensions: 19" (W) x 8.5" (D) x 1.7" (H) ● Weight: 5.5 lbs ● Accessories: AC/AC power supply, Rubber pads [0dBu = 0.775Vrms] [F.S. = Digital Full Scale Level]