

KD1550P is a high performance digital karaoke processor that allows independent control of audio processing on music sources, microphones and digital effects applied to the voice. It provides several inputs including 3 MICs, 2 stereo analog and 1 digital S/PDIF-Optical in addition to 5 outputs and 2 auxiliary outputs. All of these are managed by powerful MARANI M716 and M704 DSP. The microphone input section offers a complete set of functions for voice processing without modifying its original characteristics. It includes 10-band parametric EQ and Noise Gate in addition to Vocal Exciter function which provides amazing presence and brilliance to the singer's voice. The input path also features a Feedback Eliminator with intensity adjustable to prevent feedback occurring during the performance. For Microphone source, the **KD1550P** provides an effects section equipped with

professional reverb and delay algorithms that allows the best effect/voice combination to be obtained through a full set of controls and mixing outputs. Furthermore, the delay section provides 3 independent delays selected as delay time and feedback in order to create particular effects. Looking at the Music input section, the **KD1550P** include 10-band Graphic Equalizer, Noise Gate and RMS Compressor. The output section provides 5 output, each of them include LP/HP, 4-band parametric equalizer, Peak Limiter and Delay up to 110ms. Furthermore, 2 auxiliary stereo outputs are used to monitor either microphone signal from Pre/Post effects section or music signal from music input section. The **KD1550P** can be connected via USB by using the control remote PC SW setting all parameters and creating favorite presets. Moreover, it is equipped with wired and infrared remote control.



Features

Outstanding Performance

3 MIC inputs, 2 stereo line inputs, 1 digital input, 5 outputs and 2 auxiliary output with full matrix mixing

Excellent sonic performance with 24bit high end converters coupled with 48kHz sample rate

Microphone Input Section

10-band Parametric equalization and Noise Gate per channel

Vocal Exciter function for amazing presence per channel

Feedback Eliminator function based on a power 'Pitch Shifting' algorithm per channel

HP/LP filter per channel

Music Source Input Section

10-band Graphic Equalizer, Noise Gate and RMS Compressor

Audio Effects Section

Professional reverb and delay algorithms for best effect/voice combination through a full set of controls and mixing options

3 Independent delays selected as delay time and feedback in order to get particular effects

Output Section

5 Output paths including HP/LP filters, 4-band PEQ and Peak Limiter

Adjustable Delay time up to 110ms per output channel

Auxiliary stereo output used to monitor either microphone signal or music signal

Control

Front panel USB connector for direct PC communications via PC SW setting all parameters and creating favorite presets

Front panel interactive LCD display for local access and control

Wired and Infrared remote controls

Applications

- Auditoriums
- Houses of Worship
- Theaters
- Performing Art Centers
- Convention Centers
- Stadiums and Arenas
- Touring Musicians
- Stage Monitoring System digital



Audio

Analog Input	Line A(L/R), Line B(L/R); Unbalanced RCA MIC 1, MIC 2; Balanced XLR
Digital Input	S/PDIF, Optical Toslink
Analog Output	5 x XLR male connector, balanced 1 x RCA connector for AUX 1; 1 x Optical Toslink for AUX 2
Maximum Input Level	Line: +9dBu; MIC: -27dB
Maximum Output Level	CH1-CH5: +15dBu; AUX 1/2: +15dBu
THD+N	0.005%
S/N	>106dBA
Frequency Response	20 - 20k Hz, +/-1dB
AD & DA Converters	Cs42528; Ak5385

DSP & Processing

DSP Engine	MARANI M716+M704
DSP Resolution	24bit (data) x 24 bit (coeff.), 54 bit accregisters, 96 bit precision on intprocessing data
Microphone Section	Noise Gate, Vocal Exciter, 10-band parametric equalizations Feedback Eliminator, up to 24dB/Oct HP/LP filters
Effect Section	Professional reverb and delay algorithms; 3 independent delays selectable as delay time and feedback
Music input section	Noise Gate, 10-band Graphic Equalizer RMS Compressor and Exciter
Output Section	4-band Parametric Equalizations, selected as Peak or Shelving, from -12dB to +12dB; Peak Limiter; Delay: up to 110ms delay per channel

General

Front Panel	2x24 character LCD display with Blue LED backlight 4 x RED LED: MIC Clip, MIC Mute, Music Clip, Music Mute 1 x Green LED: Effect bypass 11 x Push Button switch: UP, DOWN, L, R, MENU, ENTER, CH1 to CH5 2 x potentiometer for MIC Volume control 3 x TRS Jack MIC input Infrared remote control receiver
Rear Panel	Type B USB Connector 5 x XLR male connector: Output 6 x RCA connector: Stereo Line Input A, Stereo Line Input B, Stereo Aux 1 x S/PDIF connector 1 x Coax connector Wired remote control connector
Main AC	IEC C13 16A connector; Power on/off switch
Dimensions	90-240VAC (50/60Hz) - 40W
Weight. Net/Shipping	19"x 1.75"x 9" (483x44x229mm) 1RU 7.71 lbs (3.5 Kg) / 8.82 lb (4 Kg)