# Audio Processors
## Digital Karaoke Processor - KD1550P

KD-1550P 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 2 powerful MARANI® DSPs. 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 amsazing presence and brilliance to the singer's voice. The input path also features a Feedback Eliminator with intensity adjustable to prevent feedback occuring during the performance. For Microphone source, the KD-1550P 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 KD-1550P 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 tomonitor either microphone signal from Pre/Post effects section or music signal from music input section. The KD-1550P 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
- Convention Centers
- Houses of Worship
- Stadiums and Arenas
- Theaters
- Touring Musicians
- Performing Art Centers
- Stage Monitoring System digital

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## 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 | 24bit |

## DSP & Processing

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|---|---|
| DSP Engine | 2 x MARANI® DSP |
| 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

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|---|---|
| Dimensions | 19"x 1.75"x 9" (483x44x229mm) 1RU |
| Weight, Net / Shipping | 7.71 lbs (3.5 Kg) / 8.82 lb (4 Kg) |