Accuphase

DIGITAL VOICING EQUALIZER

DG-58

● Fully digital signal processing Voicing Equalizer ● High-speed 40-bit floating point DSP ● Separate digital filters for Voicing and Equalizer sections ● Wide-format color LCD panel allows direct drawing of response curve with stylus pen ● Freely programmable 30 pattern memory ● Real-time spectrum analyzer for display of music signal and microphone input ● Analog and digital inputs/outputs provided as standard





Effortlessly create your ideal listening environment — With this fourth-generation Digital Voicing Equalizer featuring leading-edge digital technology. High-definition, high-resolution IPS LCD panel allows the use of a stylus pen to directly draw any desired response curve. Intuitive operation and a full complement of sophisticated display functions make sound field compensation swift and easy while giving the user full control. A range of analog and digital inputs and outputs are provided as standard, and a USB port allows saving and loading data as well as saving screenshots of the display content.

In 1997, Accuphase introduced a product which revolutionized the concept of the graphic equalizer and made headlines in the audio world: the Digital Voicing Equalizer DG-28. Its superb functionality and amazing effectiveness garnered high praise among audiophiles both in Japan and overseas. This was followed by the DG-38 and DG-48, featuring further improvements in the automatic sound field measurement and compensation process. It was thanks to these products that many audiophiles came to realize the importance of proper compensation for the acoustic properties of the listening environment.

The DG-58 Digital Voicing Equalizer now raises the bar again. It is a 4th generation product that reflects the state of the art of advanced signal processing technology developed by Accuphase. It employs the latest high-speed DSP (Digital Signal Processor) chips, making it possible to fully handle all sources including SA-CD in the digital domain. Ease of operation has also been enhanced, with two "Simple Voicing" courses for automatic measurement and compensation, as well as a "Custom Voicing" course that gives users the power to realize a specific acoustic concept through extensive control over all aspects. A wide array of digital inputs and outputs including HS-LINK, along with analog options, provides connectivity to any kind of component. The incorporation of latest high-quality A/D and D/A converters ensures that analog signals also can develop their full potential in terms of performance and sound quality. Most operations are controlled using the large, high-definition wide-format color LCD panel. This makes using the supplied stylus pen a pure joy, enabling the user to create any desired response simply by drawing on the screen. In addition, there is an "EQ+ANA" button that functions as a Home button and allows operating the equalizer and analyzer together when observing the frequency spectrum of a music signal for example from a CD player or the signal from the microphone input in real time.

The DG-58 takes the concept of intelligent equalization to the next level, while at the same time remaining simple and intuitive to operate, thanks to its clean and uncluttered graphical interface. The champagne gold colored panel made from massive extruded and anodized aluminum, and the side panels of real wood with natural grain finish lend a beautiful, elegant appearance to this stunning and revolutionary product.

What is a "Voicing Equalizer"?

The DG-58, while being a full-fledged high-precision graphic equalizer in its own right, also incorporates a sophisticated system for automatic sound field compensation that clearly sets it apart from conventional products.

Regular graphic equalizers do not have the capability to make measurements, and the level setting for each frequency point must be adjusted manually by the user. By contrast, the DG-58 can automatically express (voice) the kind of response desired by the user. It is a revolutionary product that acts as an extension of the user, harnessing sophisticated measurement and compensation functions to achieve exactly the acoustic characteristics in the listening room environment according to the user's preferences. The somewhat unusual term "Voicing Equalizer" was chosen to symbolize these advanced capabilities. It encompasses the essence of audio, offering active control that leads into a new dimension of musical enjoyment. Get ready to experience a whole new world of sound.

DG-58 Features

- Voicing Equalizer with 40-bit floating point DSP and high-performance CPU/FPGA for fully digital signal processing.
- Two equalizing modules for Sound Field Compensation (VOICING) and Sound Field Creation (EQUALIZER).
- Large, wide-format 7-inch high-definition IPS LCD panel with fast refresh rate and excellent color reproduction characteristics.
- Glass touch panel and supplied stylus pen.
 - Allows direct drawing of response curve on screen.
 - Cursor keypad can be used for pinpoint operation. Functions can be controlled by tapping or dragging
 - symbols displayed on screen.
- Sound field measurement microphone AM-48 included.
- USB port allows saving and loading of setting data and saving screenshots on USB flash memory. (USB port cannot be used for connection to a computer.)
- 30 memory slots to store entire patterns including target curve, pre/post-compensation curve, equalizer curve etc. Patterns can be Hold down Home given a name and called up or modified at any time.
- Full complement of analog inputs and outputs (Balanced/Line) and digital inputs and outputs (HS-LINK/ outputs Coaxial/ Optical).
- D/A converter with eight high-performance 32-bit Hyperstream™ DAC chips (ES9018 from ESS Technology Inc.) driven in parallel for improved performance.

button for

2 seconds

Elegant side panels of real wood with natural grain finish







Current screen display is saved as enshot image on USB flash memory Example for analyzer screen display. Screenshot images saved on USB can be viewed on a computer. Viewing on DG-58 is not supported.



Main Functions and Screens



Further Evolved Measurement and Compensation Functions: VOICING

Using its built-in high-precision measurement facilities, the DG-58 accurately measures the sound field and determines adequate compensation to achieve the target response specified by the user. There is a choice of two operation modes: Simple Voicing for easy operation and Custom Voicing for comprehensive control over all aspects.



in approximately flat response.

easily checked visually as well as aurally.

DG-58 Connection Examples

The DG-58 is a Voicing Equalizer with many functions, and therefore quite different from a conventional graphic equalizer. By incorporating it into an existing audio system, the entire reproduction chain including the speakers and the listening room can be measured and optimized to achieve the best possible playback quality. Because the DG-58 is equipped with balanced and line (unbalanced) analog inputs/outputs as well as with digital inputs/outputs including HS-LINK, it can be connected to all types of other equipment, either digital or analog.



Accuphase original digital interface HS-LINK: High Speed LINK

HS-LINK (High Speed LINK) is an ultra high-quality digital audio interface developed by Accuphase. It supports send/receive verification for copyright protection. The LVDS (Low Voltage Differential Signaling) principle allows a single dedicated HS-LINK cable to transmit all audio data with utmost fidelity, including 2.8224 MHz/1 bit and 192 kHz/24 bit as well as conventional digital signals.



Other Features





- ★ This product is available in versions for 120/220/230 V AC. Make sure that the voltage shown on the rear panel matches the AC line voltage in your area.
- ★ 230 V version has an Eco Mode that switches power off after 120 minutes of inactivity.
- ★ The shape of the AC inlet and plug of the supplied power cord depends on the voltage rating and destination country

Audio cable with plugs (1 m)

- Stylus pen Microphone cable (5 m)
- Microphone AM-48
- **Microphone holder**
- AC power cord Cleaning cloth
- Remote Commander RC-310
 - ccuphase

• Specifications and design subject to change without notice for improvements. http://www.accuphase.com

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