

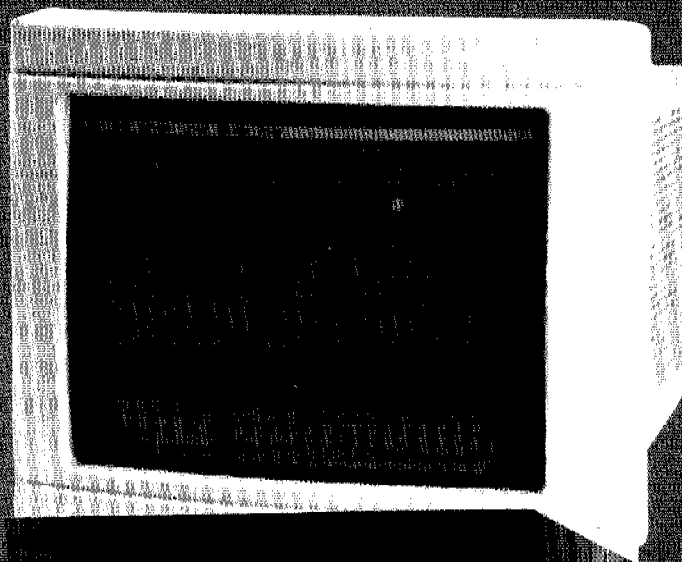


730PW

PROGRAMMABLE 1/3 OCTAVE EQUALIZER

SPECIAL FEATURES

- Simple Setup Via Ivie's AudioNet®
- Can be Controlled Via a Modem.
- Detectors on Input and Output Allow Computer Monitoring of Input and Output Levels
- Tamper Proof Operation
- Nine Programmable Presets per Channel in Non-Volatile Memory
- Presets May be Activated by a Computer, or Via Remote Contact Closure
- Available in Single Channel, or Dual Channel
- UL® & CSA® Listed, External Power Supply



The 730PW Programmable 1/3 Octave Equalizer is flexible, powerful and innovative, yet is economical and simple to install. It is available in two versions: The 730PW-1 is a single channel unit, and the 730PW-2 is a dual channel unit. Great emphasis in the design and development of the 730PW was placed on simplicity of setup and installa-

tion, and ease of operation. The 730PW is configured using a computer via AudioNet®, Ivie's exclusive RS485 protocol. There are no front panel or other adjustments required for setup.

The 730PW has nine internal, non-volatile memories (per EQ channel) for storing a complete EQ configura-

tion. These memories are called "presets." These presets can be activated by a computer or by a remote contact closure. One closure can be used to activate a preset on both an EQ and an Ivie AudioNet® mixer (784+, 884+ series mixers). This scheme provides for great flexibility in remote sound system operation.

KEY FEATURES

- Computer Control with Limited Front Panel Control Access
- Computer Control Via AudioNet, Ivie's Exclusive RS485 Protocol (IBM® Compatible Computer)
- AudioNet Input on Both Front and Rear Panels
- Compatible with all other Ivie AudioNet Products
- Each EQ can be Assigned a Name Describing its Function, ie. "Ballroom A" etc.
- Each EQ Preset can be Assigned a Descriptive Title, ie. "Speech EQ," "Music Playback" etc.
- Rear Panel, Hard Wire EQ In/Out Switch that cannot be Software Overridden
- Adjustable Overall Gain (0dB to 12dB in .5dB Steps)
- Adjustable 1/3 Octave Channel Range (-10dB to +10dB in .5dB Steps)
- Selectable Low Cut Filter (12dB/Octave Beginning at 10, 32, 51, 62, 75, 100, 130 or 160 Hz)
- Selectable High Cut Filter (12dB/Octave Beginning at 6, 7, 9, 11, 13, 15, 23 or 32 kHz)
- Input and Output are Electronically Balanced
- Euro Block and 9-Pin "D" Connectors for Ease of Wiring

730PW

PROGRAMMABLE 1/3 OCTAVE EQUALIZER



Front Panel



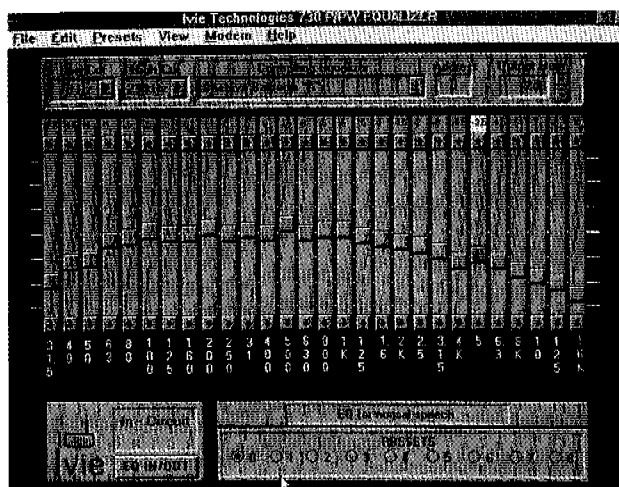
Rear Panel

The 730PW front panel contains a "Power" LED indicator, as well as LED indicators for signal presence and clipping. An AudioNet® input socket (there are AudioNet input terminals on the rear panel as well) is located on the front panel for addressing the EQ via a computer (either directly or through a modem). There is also an "Extended Low Frequency" adjustment which is accessible through the front panel. Under normal circumstances this control would not be used. Once a 730PW EQ has been configured, with presets entered into memory, there are no front panel controls to be accessed to "improve" the equalization. Tamper free operation is assured.

The 730PW rear panel houses clearly labeled Euro block connectors for ease of system wiring. No soldering of connectors for inputs or outputs is required. The remote preset activation connector on the rear panel is a standard nine pin "D" connector. AudioNet input terminals for addressing the 730PW via a computer are also located on the rear panel. Several EQ's, or a combination of AudioNet mixers and EQ's, can be looped together using these AudioNet terminals so that a computer plugged into one unit can address any of the EQ's or mixers. There is also an EQ In/Out Switch (direct bypass) on the rear panel which cannot be overridden by software.

The programming software for the 730PW is a Microsoft Windows® based application. For easiest operation, two serial ports on the host computer are required - one for a mouse, and the other for connection to the mixer. The software can be operated without a mouse by using the Tab and cursor keys. Connection between the 730PW and a computer is effected using an Ivie 78-232A, RS232 to RS485 adaptor.

The software programming screen for the 730PW is simple and intuitive. Graphic controls are either push buttons or slider pots which are mouse or Tab key actuated. All of the EQ's functions are addressable through software. Individual filter and overall EQ levels can be adjusted, high cut and low cut filters can be actuated and their cutoff points chosen, and presets can be programmed and activated or deactivated.



Computer Screen

A "preset" contains an entire EQ setup, i.e. low cut, high cut, overall gain, amplitudes of all 28 filters, and associated preset name. There are nine presets for each channel available which, once programmed, can be activated by a computer or by a remote contact closure. The direct bypass EQ In/Out switch on the 730PW rear panel cannot be overridden by software, but when the EQ is bypassed, it is indicated on the software screen, thus allowing easy determination of EQ status.

Detectors on both the input and output of the 730PW allow the monitoring (via "pull down menu") of input and output levels. In conjunction with a tone oscillator, this feature may be used for EQ testing and troubleshooting. For example, by routing the tone oscillator of Ivie's 784+ or 884+ series mixer to the 730PW input, system troubleshooting may be done locally, or even remotely via modem.

SPECIFICATIONS

Number of Channels: 730PW-1 = 1 Channel; 730PW-2 = 2 Channels.
 Number of Presets: 9 Non-volatile per EQ Channel.
 Frequency Response: 20Hz - 20kHz (Flat Setting) $\pm$ 1dB.
 Dynamic Range: Greater than 100dB.
 Recommended Average Operating Level: 0dBu (.775 Volts).
 Maximum Operating Level: +18dBu into 600 Ω or Greater Load, Balanced or Unbalanced.
 Noise: -82dBu, 20kHz Bandwidth.
 Distortion: Less than 0.05% THD.
 Input Circuit: Active Servo Balanced Differential. Can Operate Unbalanced with no Change in Gain or Dynamic Range.
 Input Impedance: 60 k Ω Balanced, 20 k Ω Unbalanced.
 Input Common Mode Rejection Ratio: Greater than 85dB at or Below 1kHz. Greater than 65dB at 10kHz.
 Output Impedance: 102 Ω Balanced, 51 Ω Unbalanced.
 Muting: Outputs Muted During Power up and Power Down.
 Gain: Adjustable from 0dB to +12dB in 0.5dB Steps.
 Filter Type: RC Active, Single Pole Pair.
 Filter Adjustment Range: -10dB to +10dB in 0.5dB Steps.
 Controls: One Front Panel Accessible Push Button.
 Control Centers: 28 1/3 Octave Filters on ISO Standard Center Frequencies from 31.5 Hz to 16 kHz.
 Frequency Tolerance: $\pm$ 5% of center frequency.

Low Cut Filter: 12dB/Octave Slope. Adjustable from 10 Hz to 160 Hz in 8 Steps.
 High Cut Filter: 12dB/Octave Slope. Adjustable from 6 kHz to 32 kHz in 8 Steps.
 Clip Indication: Front Panel LED and Computer Display.
 EQ In/Out: Rear Panel Switch Bypasses All Circuitry. Status of Rear Panel Switch can be Read by the Controlling Software. Software Can Also Control In/Out of Filters.
 Connectors: Gold Plated Euro block Connectors for All Inputs and Outputs. 9 Pin "D" Connectors for Presets. 5 Pin Din for DC Power.
 Presets: Nine Presets per channel (0 - 8). Controllable by Rear Panel Contact Closure or Via Software.
 Power Requirements: External UL and CSA Approved DC Power Supply. Requires 120V or 240V @30 Watts.
 Dimensions: 1.75" by 19" by 10". One Rack Space. Rack Mountable.
 Weight: 19 Lbs. With External Power Supply.
 Shipping Weight: 13 Lbs.



1605 NW State Street
 Lehi, Utah 84043
 Phone: (801) 766-7600
 Fax: (801) 766-8282
 Internet: www.ivie.com
 Email: ivie@ivie.com