



626 DIGITAL SIGNAL PROCESSOR



Ivie's new full-function digital signal processor provides many signal processing functions in one package. The Model 626 Digital Signal Processor is fully integrated with Ivie's award winning AudioNet+® software. Easily configurable and intuitive to use, the 626 offers solutions to most of today's exacting professional signal processing requirements.

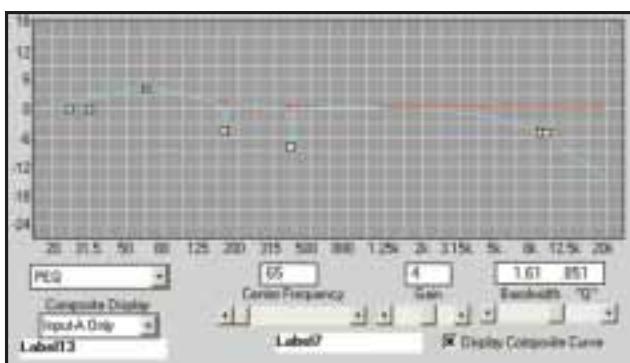
The 626 is a natural, evolutionary step in the development of innovative, results-oriented products from Ivie Technologies. The 626 is designed to meet the varied and demanding needs of consultants, professional contractors and installers. Versatile in its ability to be configured in many variations of functional combinations, the 626 provides ultra-high quality, multiple digital signal processing functions to precisely address almost any application, from simple to very complex.

Ivie's user friendly and intuitive ANSW software sets up and programs the 626, along with any other AudioNet® or AudioNet+® hardware. Controlling automatic mixers, matrix mixers, conventional analog EQ and digital signal processing all from the same integrated software cuts installation and adjustment time, simplifies control, and speeds system programming.

- 2 x 6 Signal Router
- Pre and Post EQ Signal Feeds
- Parametric EQ Filters
- Shelving, Hi/Lo Cut, Horn EQ
- Extended PEQ Functions
- Compression/Limiting Delay
- 2 and/or 3-Way Crossovers

- User Definable Configuration
- Built-in Pink Noise/Sine Wave Generator
- Programmable Using Ivie ANSW+ Software
- Field Upgrade Using Flash ROM
- Compatible with AMX® and Crestron® Touch Panels

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PEQ:

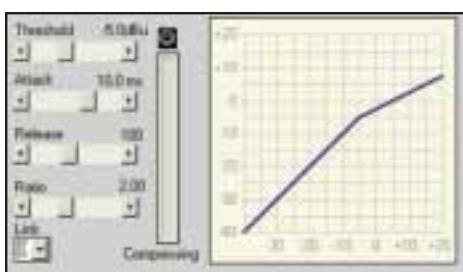
The 626 provides parametric filters for use on either inputs, or outputs or both. A total of 50 filters are available for assignment which provides tremendous flexibility in effecting broad and narrow-band shaping and filtering. Filters can be selected to operate as Lo-shelf, Lo-cut, Hi-shelf, Hi-cut, tunable parametric, extended parametric or Constant-Directivity Horn Correction. Filter color coding (the "composite" is always shown in blue) by the ANSW+ software makes filter adjustment fast and intuitive.

Low and Hi cut filters are fixed, 6dB/Oct. filters. The action of the shelving filters is similar to that of the cut filters, except they do not continue to roll-off as do the cut filters. However, they are used in much the same manner.

Constant-Directivity Horn Correction filtering provides standard correction roll-off slopes often used when C-D horns are employed. The "knee" or starting point of the filter can be selected to customize for the brand and size of the horn and driver.

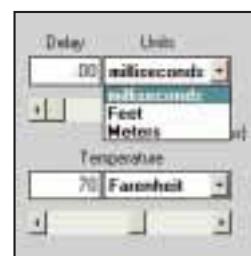
DELAY:

Delay may be added on either input or output of the 626. Up to 1365 milliseconds of delay is available for allocation. Delay can be increased or decreased in 1 millisecond increments, and/or 2 microsecond increments. Using the ANSW+ Software in either the 626 Main Control Screen, or the Delay pop-up control window, clicking on the up/down arrows adds delay in 1 millisecond increments. Holding down the "Shift" key while clicking on the up/down arrows adds delay in 2 microsecond increments.



COMPRESSOR/LIMITER:

Compression and Limiting can be added to any 626 input or output. Compressor attack and release times are fully programmable, as well as compressor threshold and ratio. The ANSW+ software allows these parameters to be set using either slider controls, or by clicking on the compression graphic to set threshold at the spot of the click. After the threshold has been set, clicking at the top end of the compressor curve and then dragging and releasing sets the ratio. The slider controls will move to reflect the changes made by clicking and dragging.



Ivie 626 Spec Briefs

| Parameter | Specification | Limit | Units | Comments |
|---------------------|-------------------|-------|-------|--|
| Gain | 0.0 | +0.5 | dB | Levels set for Unity Gain |
| Frequency Response | 20 Hz to 20 KHz | +0/-1 | dB | |
| THD + Noise | <0.05 | .01 | % | +4 dBu, 1 KHz |
| Dynamic Range | 100 | | dB | A-Wt, re +20 dBu, 20Hz-20KHz |
| IM Distortion | <0.01 | .01 | % | 60 Hz / 7 KHz, 4:1, +4 dBu |
| Propagation Delay | 1.0 | 1% | msec | Displayed in delay times |
| Crosstalk | -82 | typ. | dB | 1 KHz bandpass, any signal |
| Inputs: Type | Active Balanced | | | |
| - connectors | Euroblock | | | |
| - impedance | 10K each leg | 1% | ohms | |
| - maximum level | 20 | 1 | dB | |
| - common mode rej. | >46 | 1 | dB | 20 Hz to 20 KHz |
| - signal present | -20 | 1 | dBu | @ 1 KHz |
| - overload | 17 | 2 | dBu | @ 1KHz, 3 dB before clip |
| Outputs: Type | Active Balanced | | | |
| - connectors | Euroblock | | | |
| - impedance | 100 each leg | 1% | ohms | |
| - maximum level | 20 | 1 | dBu | 2k ohms load |
| - signal present | -20 | 2 | dBu | @ 1 KHz, 3 dB before clip |
| - overload | 17 | 2 | dBu | @ 1 KHz, 3 dB before clip |
| Input Trim Range | +31 to -20 | 0.15 | dB | Min 1/2 dB steps |
| Output Trim Range | 0 to -84 | 0.01 | dB | Min 1 dB steps |
| Master Output Range | 0 to -84 | 0.01 | dB | Min 1 dB steps |
| Input & Output RFI | yes | | | |
| A/D Converters | 20 bit | | | 48 KHz sample rate |
| Processing | 24 bit & high | | | |
| Comm. Interface | RS232 or AudioNet | | | RS232 or RS485 |
| - cable length | 4000 ft | | | With RS485 |
| Memory | NOVRAM | | | non-volatile, no batteries |
| Pink Noise Type | Pseudo Random | | | 1/2 dB error |
| - word length | >100 | typ. | days | |
| - crest factor | 4.9 | typ. | | |
| Sine Wave Gen. | 20 - 20,000 | Hz | | 1 Hz steps channels 1 & 2 phase coherent |

Unless otherwise noted, all settings are "flat," thresholds set at minimum, ratios set at maximum



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