



1026 INTEGRATED AUTOMIXER/DIGITAL PROCESSOR

Special Features

- Ethernet® Based Control
- 10 Universal Inputs, Mic or Line, Software Switchable.
- Inputs Assignable to Automix, Manual or Vox Operation.
- 6 Outputs
- One or Two Independent Automixers in the Box.
- A Whole Family of Remote Controls for Simple yet Powerful User Interface.
- DSP Signal Processing Capability with Built-in 2x6 Signal Router.
- Two or Three-way Crossovers, Delay, Compression, Limiting and Parametric Equalization.
- User Programmable DSP Configurations.



Ivie's new 1026 Integrated Automixer/Digital Processor combines a ten input automatic matrix mixer with a full-function, digital signal processor to provide mixing and signal processing functions in one, single rack height package. The 1026 communicates via Ethernet® and intuitive, graphic user interface, control software is provided with each unit. Easily configurable and simple to use, the 1026 offers solutions to most of today's exacting professional mixing and signal processing requirements.

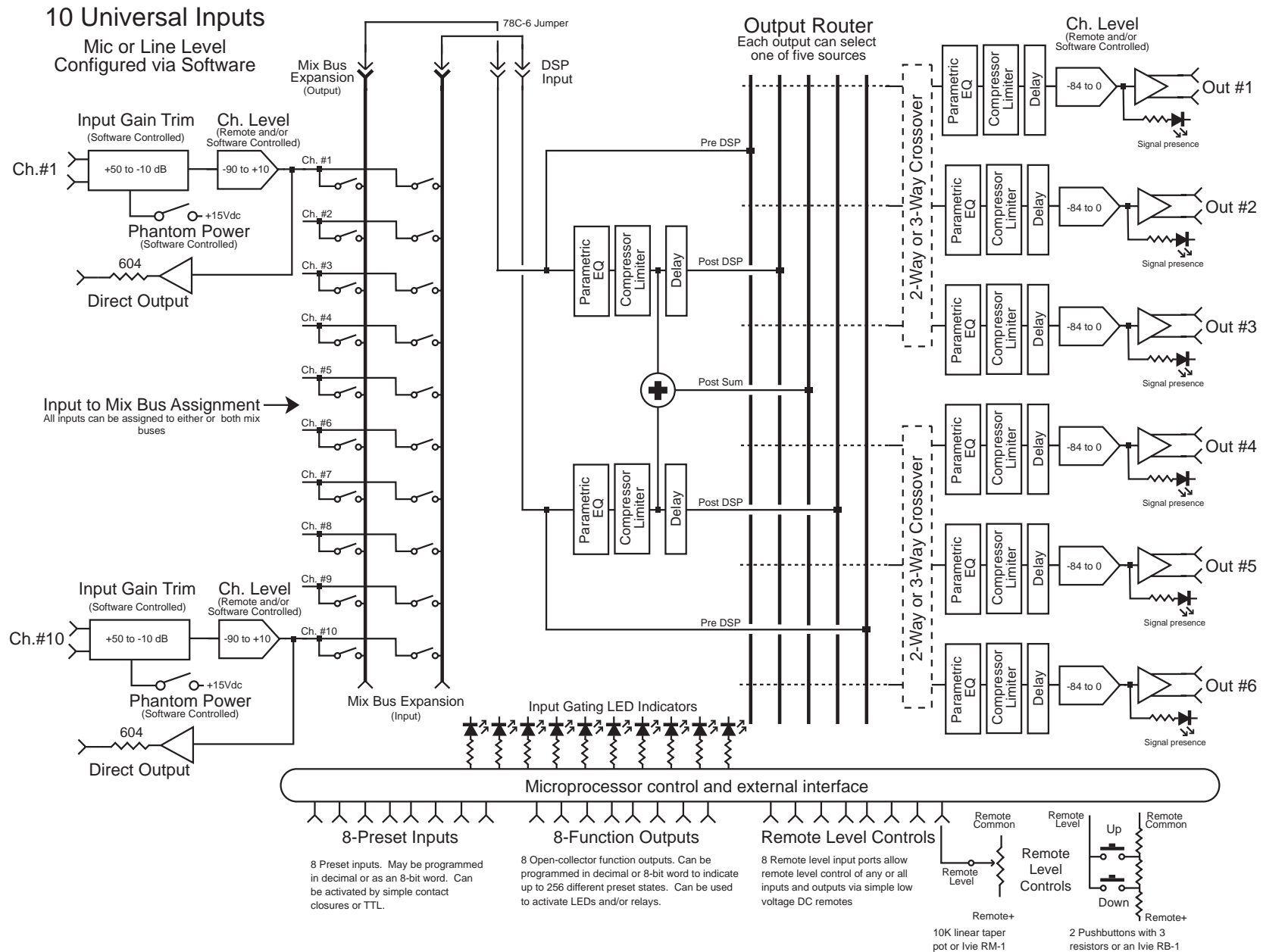
The 1026 is another evolutionary step in the development of innovative, problem solving oriented products from Ivie Technologies. The 1026 is designed to meet the varied and demanding needs of consultants, professional contractors and installers. Versatile in its ability to be configured in many variations of functional mixing and signal processing combinations, the 1026 provides high quality matrix mixing and signal processing func-

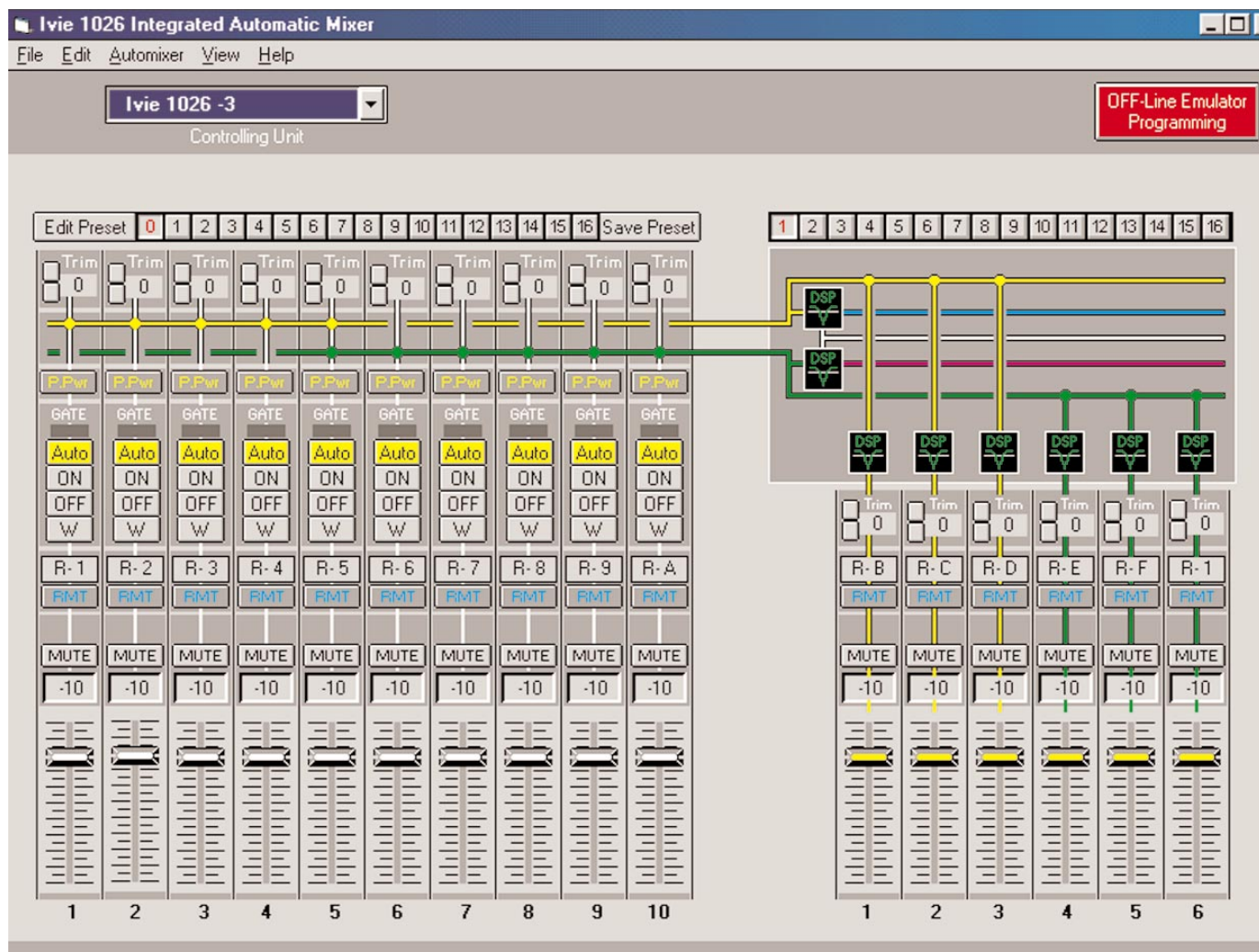
tions to precisely address almost any application, from simple to very complex. A complete line of user friendly remote controls add flexibility and power to the 1026.

With intuitive control software and powerful functions like automatic level control availability on each input, configuration choices of either one or two separately functioning automixers in the box, and the multiple functions of delay, compression and parametric equalization assignable at each of the two mix bus inputs and/or at each of the six outputs, the 1026 provides a totally integrated package that simplifies setup procedures, is highly flexible, and cuts installation and adjustment time. Both the automatic matrix mixer section and the digital signal processor section have their own programmable presets that can be activated individually, or together in various combinations to provide unsurpassed versatility.

- Associate Any Input Channel with Either Internal Automixer.
- Adjustable NOM Attenuation (0 to -3dB).
- Adjustable Off Attenuation (-6 to -99dB).
- Ivie's "Last On" Feature on Both Automixers.
- Ten Front Panel "Channel Active" LED's.
- 16 "Nonexclusive" Presets on the Automixer Section (More than One Preset can be Active at Once).
- 16 Mutually Exclusive Presets on the DSP Signal Processor Section.
- Binary Control (Contact Closures) for Use in Simultaneous Activation of Mixing and Signal Processing Presets.
- 2 x 6 Signal Router in Signal Processing Section
- Pre and Post Processing Signal Feeds
- 50 Assignable Filters
- Parametric EQ Filters
- Shelving, Hi/Lo Cut, Horn EQ Filters
- Extended PEQ Functions
- Built-in Pink Noise/Sine Wave Generator
- DSP Field Upgrade using Flash ROM
- Compatible with AMX® and Crestron® Touch Panels
- Touch Panel Macros Available to Aid User Programming

1026 Integrated Automixer Block Diagram



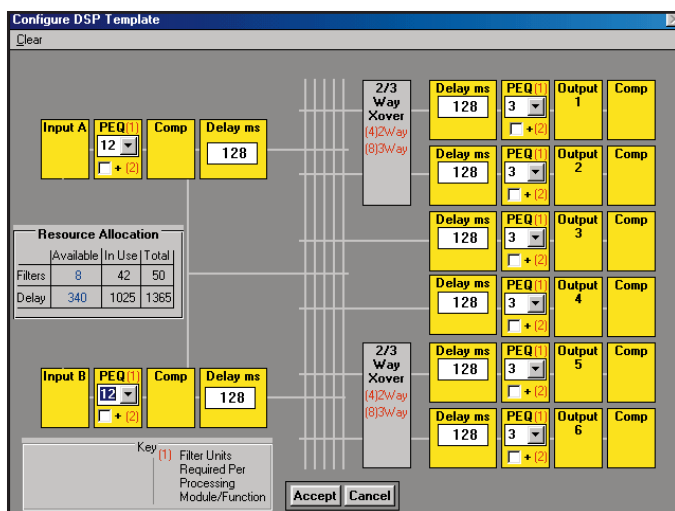


Software Screen

Ivie's new, intuitive control software for the 1026 Integrated Automixer/Digital Processor is easy to understand and even easier to use. Software is shipped with each unit and the latest version is always available at Ivie's web site (www.ivie.com) for immediate downloading - free of charge! Programming the 1026 is a snap. Automatic matrix mixer settings and DSP signal processing functions are available and adjustable at the click of a mouse button. Pull-down menus and pop-up windows provide immediate and easy access to extended programming functions. "Right clicking" the mouse button, while programming a particular function, opens an entire menu of cut-and-paste options to both simplify and speed programming.

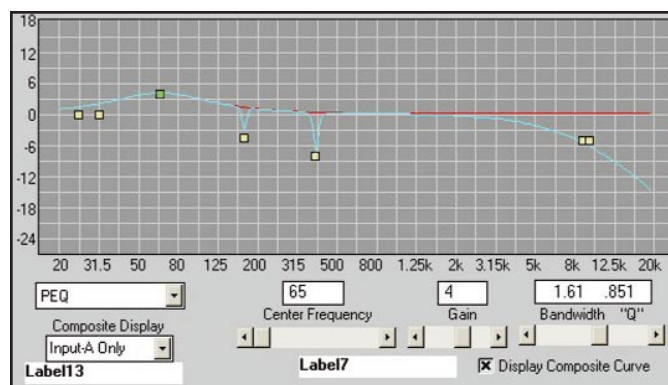
Presets (16 in the mixer section of which any number can be active simultaneously, and 16 in the signal processing section of which only one at a time may be active) contain an entire configuration. While the presets in the mixer section and the signal processing section are independent of one another, there is binary logic, contact closure control provided that actuates both mixer and signal processing presets simultaneously - in any number of combinations. This is a remarkably powerful feature adding great flexibility to the 1026. The binary logic may also be accessed via software control.

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DSP CONFIGURE SCREEN

The signal processing section of the 1026 can be easily configured using the DSP Configure pop-up window. A Resource Allocation Table helps keep track of how many of the fifty filter units have been allocated and how many are still available for assignment. PEQ, Delay and Compression/Limiting can be used (or not used) on any input and/or output. Additionally, Crossovers (2-way and/or 3-way) can be assigned across outputs.



PEQ CONTROL SCREEN

The PEQ Control Screen 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 1026 software makes filter adjustment fast and simple.

Filter slopes are available in 6, 12, and 18 dB/Octave, and can be configured as Butterworth, Bessel, or Linkwitz-Riley filter types.

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 the brand and size of the horn and driver.

IVIE 1026 SPEC BRIEFS

Parameter	Specification	Limit	Units	Comments
Gain	+70	+/- 0.5	dB	Maximum
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	< -90	typ.	dB	1 KHz bandpass, any signal
Inputs: Type	Active Balanced			
- connectors	Euroblock			
- impedance	Mic: 2k, Line: 40k	1%	ohms	
- equivalent input noise	-125		dBm	No weighting
- common mode rej.	>90	1	dB	@ 20 KHz
- signal present	-20	1	dBu	@ 1 KHz
Phantom Power	+15		VDC	
Channel Attenuation/Isolation	< -90		dB	@ 1KHz
	< -80		dB	@ 20KHz
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	+24	2	dBu	@ 1 KHz, 3 dB before clip
Direct Oputputs	604		ohms	Unbalanced
DSP Input Trim Range	+31 to -20	0.15	dB	Min 1/2 dB steps
DSP 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 & higher			
Comm. Interface	Ethernet®			Std. RJ-45 connector
Memory	NOVRAM			non-volatile, no batteries

Unless otherwise noted, all settings are "flat," thresholds set at minimum, ratios set at maximum
Specifications subject to change without notice.



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