SPX2000 Key Features

Superb Sonic Quality with 24bit/96khz Standard Throughout

The heart of SPX2000 hardware is the 96kHz audio DSP, with 32-bit internal processing (58-bit accumulator) which offers abundant processing power for the advanced effect algorithms. The 24-bit 128-times over-sampling AD/DA converters deliver 106dB dynamic range and flat AUDIO DSP response from 20Hz to 40kHz at 96kHz sampling rate. Both are in line with the DM series Digital Production Console quality.





or digital consoles.

There are 3 banks to the SPX2000 memory: "PRESET". "CLASSIC" and "USER". "PRESET" bank contains 97 programs. 17 programs are made with the newly developed "REV-X" reverb algorithms. "REV-X" is a whole new generation of Yamaha Reverb programs with the richest reverberation tone and smoothest

algorithms. Newly introduced parameters like ROOM SIZE and DECAY envelope also bring much higher definition and finer nuances. Other 80 presets consist of the popular trademark SPX programs such as gate reverbs, delays, pitch effects, modulation and other special effects. Also the latest algorithms are introduced from the DM series Digital Production Consoles such as Multi-band Dynamic Processors. All programs went through refined editing by the top engineers, and no program is the same as the ones offered in the previous effect processors

decay. There are "REV-X Hall", "REV-X ROOM" and "REV-X PLATE"

The "CLASSIC" bank on the other hand consists of 25 programs giving you the reminiscence of the original presets from the early SPX models such as SPX90II. "USER" bank can store 99 user programs.

Reliable and Efficient Front Panel User Interface with Colors

SPX2000 hardware cosmetic is designed to offer optimum reliability for the engineers on site. The rugged aluminum front panel features 2 sets of "Cross-keys" - simple navigation tool anyone is familiar with. Parameters are sorted in 3 groups; "PARAMETER", "FINE PARAM" and "UTILITY" to ensure speedy access. Also other dedicated buttons like UNDO, COMPARE, BANK, MODE, METER, TAP, and BYPASS ensure efficient operations.

SPX2000 LCD offers 5 back light color variations(!). You can freely assign any of the 5 colors to user programs. The preset programs are colored by effect groups giving you an instant recognition of the effect type even from the distance. (CYAN: Reverbs, WHITE: Delays, MAGENTA: Pitch & Modulations, YELLOW: Others, GREEN: CLASSIC Bank) RED is reserved for warning messages. SPX2000 "OPERATION LOCK" function offers 3 security levels; from preventing accidental changing of Utility settings, or protecting stored memories to prohibiting almost all operations.

Professional Audio I/O and Control Connectors

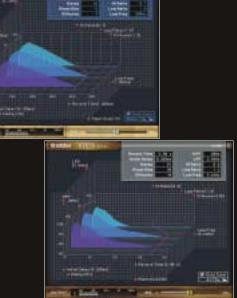
SPX2000 Rear Panel houses, for analog connection, XLR type (w/latch) and quarter inch L + R INPUT and OUTPUT connectors both with +4dBU/-10dBu selector switch.

Professional digital connection is secured with AES/EBU XLR type I/O connectors and BNC WORDCLOCK IN connector. Also MIDI IN, OUT/TROUGH and USB TO HOST connectors are provided for remote control and data management using computers, Digital Consoles or any MIDI device. Foot Switch connector for effect tempo control is placed on the front panel.

"SPX2000 Editor" for Mac OSX and Windows

SPX2000 Editor will give you the editing, data management, and remote control capability using computers, in the same environment and common interface as the STUDIO MANAGER for Yamaha Digital





The SPX2000 Editor will be available for downloading from December, 2003 at the Yamaha website (http://www.yamahaproaudio.com).



ANALOG I/O CHARACTERISTICS

GENERAL SPECIFICATIONS

quency Response

24-bit Liner 128-times Oversampling (@fs=44.1,48kHz)

24-bit Liner 64-times Oversampling (@fs=88.2,96kHz)

PRESET BANK: 97, USER BANK: 99, CLASSIC BANK: 25

LCD: 16 charactors x 2 lines with 5-color Back Light,

External Clock: Normal Rate:39.69kHz - 50.88kHz,

Internal Clock: 44.1, 48, 88.2, 96kHz

Double Rate: 79.38kHz - 101.76kHz

20Hz - 20kHz (0dB +1.0, -3.0)@48kHz

20Hz - 40kHz (0dB +1.0, -3.0)@96kHz

106dB AD + DA. Input Level VR: Max

fs=96kHz. 0.01%@1kHz

UC: AC 120V. 60Hz

CE: AC 230V, 50Hz

oot Switch FCF

METER LED: 12 segment (L,R)

480W x 45H x 372.5D mm. 4kg

Terminal	Level SW	Input Level VR.	Actual Load Impedance	For Use with Nominal	th Nominal Level		Connector	
reminai	Level 3W	iliput Level vk.	Actual Load Impedance	roi use with nominal	Nominal	Max before Clip	Connector	
INPUT [L,R]	+4dBu	Nominal: 0dBu	10kΩ	600Ω Lines	+4dBu (1.23V)	+24dBu (12.28V)	XLR-3-31 type (Balanced)	
INFOT [L,IX]	-10dBu	Nominal. odbu	10822	00022 Lines	-10dBu (0.245V)	+10dBu (2.45V)	Phone Jack (TRS: Balanced)	
OUTPUT [L,R]	+4dBu		150Ω	600Ω Lines	+4dBu (1.23V)	+24dBu (12.28V)	XLR-3-32 type (Balanced)	
OUTFUT [L,K]	-10dBu	-	13022	00022 LINES	-10dBu (0.245V)	+10dBu (2.45V)	Phone Jack (TRS: Balanced)	
							*0dBu = 0.775Vrn	

DIGITAL I/O CHARACTERISTICS

D1011112 11 1	• • • • • • • • • • • • • • • • • • • •			
Terminal	Format	Data Length	Level	Connector
AES/EBU IN	AES/EBU	24bit	RS422	XLR-3-31 type (Balanced)
AES/EBU OUT	AES/EBU	24bit	RS422	XLR-3-32 type (Balanced)

CONTROL LAG CLIADACTERICTICS

ONTROL I/O CHARACTERISTICS						
Terminal		Format	Level	Connector		
USB	TO HOST	USB 1.1	0-3.3V	B type USB Connector		
MIDI	IN	MIDI	-	DIN Connector 5P		
	OUT/THRU	MIDI	-	DIN Connector 5P		
WORD CLOCK	IN	-	TTL/75Ω	BNC Connector		









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'KANDO' ... Inspiring the Heart and Spirit.

REVERB AND EARLY REFLECTION

The SPX2000 has a wide variety of uncompromising, superior reverb and spacial ambience effects, including ER (early reflection). These provide not only exceptionally natural real-world ambience but a stunning selection of other-worldly effects as

The REV-X presets in particular—all 17 of them—were redesigned completely from the ground up, with new reverb algorithms. The Hall presets (#1 - 7) provide various natural, high-density reverb programs, while the Plate programs (#16 - 18) give you a crisp, welldefined sound—perfect for vocals. The seven Room presets (#27 - 33) feature realistic recreations of various environments, with fine parameter control over room size, as well as a variety of wall materials and sound-absorption characteristics.

REV-X PARAMETER LIST

REV TIME

LO.RATIO

INI.DLY

ROOMS17F

MIX BAL.

OUT LVL

LO.FREQ.

DECAY

PARAMETER

PARAMETER

0.10~46.92s

0.0~125.0ms

0.1~1.0

0.1~1.4

0~10

0~28

0~100%

0~100%

0~53

1.00~18.0kHz, Thru

22.0Hz~18.0kHz

Each and every one of these programs boasts incredibly rich tone and a super-smooth, grain-free decay—giving you authentic ambience for enhancing the original sound. Moreover, various parameters provide detailed, comprehensive control over the processed

- The SPX2000 also features: Stereo Reverb, Gate Reverb and special Drum Machine Reverb programs—refined and updated from
- · ER group effects especially for enhancing drums, percussion and guitar, as well as creating powerful, in-your-face sounds. These include #34 Fat Reflections, #41 Full Metal Gate (a dynamic gated reverb program), and #42 Reverse Gate.
- The Classic bank offers 4 basic reverbs-Hall, Room, Vocal and Plate, as well as the early reflection, gate reverb and reverse gate programs from the early SPX models.

Determines the amount of time until the reverberation decays

Determines the reverberation length (release time) for the high

Determines the time that elapses between the original sound

Determines the density and separation of the reverberation.

Determines the virtual 'size' of the room, and affects the reverb time

Determines the level balance of the original (dry) sound and

Determines the overall level of the mixed original and

Cuts the high frequencies of the processed sound.

Determines the shape of the reverberation envelope.

Basic frequency for the LO.RATIO parameter

This affects the 'color' of the reverberation

and low frequency sounds. This is used to simulate the

damping factor of walls and ceiling.

and the reverberation

the processed (wet) sound.

Thru, 22.0Hz~8.00kHz Cuts the low frequencies of the processed sound.

DELAY AND ECHO

The Delay/Echo presets feature versatile, high-quality delay effects—allowing you to tap out a tempo for the delay time with the [TAP] button or a footswitch, or synchronize the SPX2000 to the tempo and note values from an external MIDI device.

A full selection of delays is provided, with mono, stereo, and a special stereo with center channel (#50, Delay L, C, R) for creating three-dimensional ambience. There's also a Stereo Phasing preset (#66) that allows you to modulate the delay sound with a sine or triangle wave for complex, unique delay effects.

The Classic bank also effers two popular programs from the early SPX models: Delay L, R and Stereo Echo.

PITCH CHANGE

These programs give you sophisticated, highquality pitch shift effects at your fingertips, updating the original SPX programs with enhanced sound, greater musical control and dynamic expressiveness. The new effects have many functions such as mixing of the sounds, feedback, and synchronizing to tempo. The Classic bank includes Pitch effects from the early SPX models, giving you MIDI note control over the pitch change.

MODULATION

A wide variety of modulation effects are included on the SPX2000—for fattening the sound, enhancing it, giving it animation and depth, or completely transforming it. Programs include Flanger, Phaser, Chorus,

Symphonic, Tremolo, Auto Pan, Ring Modulation and Modulation Filter. The Rotary Speaker program (#71) faithfully recreates that rich rotating speaker sound for organ and other instruments. Special Dynamic Modulation programs, such as Dyna Flange (#76) and Dyna Phaser (#77), let you vary, respectively, the delay time and the frequency of the effect sound with the dynamics of your playing or MIDI velocity for even greater expressive control. Also included are combination programs such as #62 Reverb + Symphonic, gives you Yamaha's original multiple chorus effect with modulated delay time, and a high-quality reverb. Preset #64 Chorus + Reverb also lets you use both chorus modulation and reverb simultaneously.

The Classic bank features the original modulation programs of early SPX models.

FILTER

These new programs include Dynamic Filter, Multi Filter and Multi-band Dynamic Processor. Program #78 Dyna Filter gives you powerful control over the sound by allowing you to vary the central frequency of the filter with the signal itself or via MIDI velocity. The Multi-band Dynamic Processor is also exceptionally versatile, giving you independent control over the dynamic range for three separate frequency bands—each with an expander/compressor/limiter—allowing you to create extremely fat, full and rich sounds.

DISTORTION

The SPX2000 also has your distortion bases covered, with an Amp Simulator effect (#83) for recreating vintage guitar amps, and a

special new Distortion program (#82) featuring five different distortion characteristics

(DST1/DST2/OVD1/OVD2/CRUNCH), a noise gate, and comprehensive control over the tone. The SPX2000 also has combination effect programs, #84 Distortion → Flanger and #85 Distortion → Delay, letting you combine distortion with modulation or delay effects for an even wider sonic palette.

COMBINATION **EFFECTS**

A variety of multi effect programs give you even greater signal processing flexibility and creativity, putting reverb and modulation together, or combining delay with ambience. These combination effects are provided in two different types, one routing the signal in parallel (for example, #94 Delay + Reverb), the other using serial processing of the signal (for example, #95 Delay \rightarrow Reverb).

FREEZE

The Freeze effect turns the SPX2000 into a phrase sampler, ideal for looping parts during live performance. Quality is exceptionally high (96 kHz), even for long phrases up to nearly 3 seconds. The sampled audio can be played by pressing a panel button or by using an external MIDI trigger. You can even specify the number of playback repeats, up to 100 and shift the pitch of the sample (in semitones). The Classic bank brings 2 programs from the early SPX models. Preset #23 Freeze A lets you set the start and end points, while #24 Freeze B allows you to finely change the playback pitch of the sample in 1-cent units (1/100 semitone).

PRESET BANK

No. EFFECT NAME CLASSIFICATION CO OLOR 1 REV-X LARGE HALL HALL CYAN 3 REV-X SMALL HALL A REV-X SMALL HALL 4 REV-X SMALL HALL FREV-X WARM HALL 5 REV-X WARM HALL 6 REV-X BRITE HALL 7 REV-X HUGE HALL 75 MOD FILTER 8 AMBIENCE 9 STEREO HALL 10 VOCAL CHAMBER 10 VOCAL CHAMBER 11 BRIGHT HALL 12 BREATHY REVERB 12 CONCERT HALL 14 REV-X BRIGHT PLT 15 REV-X BRIGHT PLT 17 REV-X BRIGHT PLT 16 REV-X SNARE PLT 19 VOCAL PLATE 17 REV-X SNARE PLT 19 VOCAL PLATE 18 REV-X SNARE PLT 19 VOCAL PLATE 19 PASSENCE REVERB 20 ECHO ROOM 1 2 PASSENCE REVERB 21 ARENA 24 THIN PLATE 22 DESENCE REVERB 23 ARENA 24 THIN PLATE 26 DARK PLATE 25 OLD PLATE 26 DARK PLATE 26 DARK PLATE 27 REV-X CHAMBER 27 REV-X WOOD ROOM 2 PASSENCE REVERB 28 REV-X WOOD ROOM 2 PASSENCE REVERB 29 REV-X WOOD ROOM 30 REV-X LARGE ROOM 31 REV-X WARD ROOM 32 REV-X SMALL ROOM 33 REV-X SMALL ROOM 34 FAT REFLECTIONS 80 SILKY SWEEP 69 POWN FLANGE 70 TREMOLO 70 TREMOL	PR	ESEI BANK						
TREV-X MED HALL TREMOLO	No.	EFFECT NAME	CLASSIFICATION	LCD COLOR	68	SILKY SWEEP		
REV-X SMALL HALL	1	REV-X LARGE HALL	HALL	CYAN	69	UP DOWN FLANGE		
REV-X TINY HALL TREV-X BRITE HALL TREV-X BRITE HALL TREV-X HUGE HALL TREV-X HUGE HALL TREV-X TINY HALL TREV-X TI	2	REV-X MED HALL			70	TREMOLO		
REV-X WARM HALL REV-X WARM HALL REV-X WARM HALL REV-X BRITE HALL REV-X WARM HALL REV-X HUGE HALL REV-X HUGE HALL REV-X HUGE HALL REV-X BRITE HALL REV-X BRITE HALL REVERB FLANGE REV-X WOCAL CHAMBER REV-X STAGE RE	3	REV-X SMALL HALL			71	ROTARY SPEAKER		
REV-X BRITE HALL	4	REV-X TINY HALL			72	AUTO PAN		
7 REV-X HUGE HALL 8 AMBIENCE 9 STEREO HALL 10 VOCAL CHAMBER 11 BRIGHT HALL 12 BREATHY REVERB 13 CONCERT HALL 14 REVERB STAGE 15 REV-X VOCAL PLT 17 REV-X BRIGHT PLT 18 REV-X SNARE PLT 19 VOCAL PLATE 20 ECHO ROOM 1 21 ECHO ROOM 2 22 PRESENCE REVERB 23 ARENA 24 THIN PLATE 25 OLD PLATE 26 DARK PLATE 27 REV-X CHAMBER 28 REV-X WOOD ROOM 29 REV-X WARM ROOM 30 REV-X WARM ROOM 30 REV-X WARD ROOM 31 REV-X MED ROOM 33 REV-X SMALL ROOM 36 REV-X SMALL ROOM 36 REV-X SMALL ROOM 37 REV-X SMALL ROOM 38 REV-X SMALL ROOM 38 REV-X SMALL ROOM 39 REV-X SMALL ROOM 30 REV-X SMALL ROOM	5	REV-X WARM HALL			73	PHASER		
A MBIENCE	6	REV-X BRITE HALL			74	RING MODULATION		
9 STEREO HALL 10 VOCAL CHAMBER 11 BRIGHT HALL 12 BREATHY REVERB 13 CONCERT HALL 14 REVERB FLANGE 15 REVERB STAGE 16 REV-X VOCAL PLT 17 REV-X BRIGHT PLT 18 REV-X SNARE PLT 19 VOCAL PLATE 20 ECHO ROOM 1 21 ECHO ROOM 2 22 PRESENCE REVERB 23 ARENA 24 THIN PLATE 25 OLD PLATE 26 DARK PLATE 27 REV-X WOOD ROOM 29 REV-X WOOD ROOM 29 REV-X WARM ROOM 30 REV-X WARM ROOM 31 REV-X MED ROOM 32 REV-X SMALL ROOM 33 REV-X SMALL ROOM 34 REV-X SMALL ROOM 35 REV-X SMALL ROOM 36 REV-X SMALL ROOM 37 REV-X SMALL ROOM 38 REV-X SMALL ROOM 39 REV-X SMALL ROOM 30 REV-X SMALL ROOM 30 REV-X SMALL ROOM 30 REV-X SMALL ROOM 30 REV-X SMALL ROOM 31 REV-X SMALL ROOM 31 REV-X SMALL ROOM 32 REV-X SMALL ROOM 35 REV-X SMALL ROOM	7	REV-X HUGE HALL			75	MOD FILTER		
10 VOCAL CHAMBER 11 BRIGHT HALL 12 BREATHY REVERB 13 CONCERT HALL 14 REVERB FLANGE 15 REVERB STAGE 16 REV-X VOCAL PLT 17 REV-X BRIGHT PLT 18 REV-X SNARE PLT 19 VOCAL PLATE 20 ECHO ROOM 1 21 ECHO ROOM 2 22 PRESENCE REVERB 23 ARENA 24 THIN PLATE 25 OLD PLATE 26 DARK PLATE 27 REV-X CHAMBER 28 REV-X WOOD ROOM 29 REV-X WOOD ROOM 29 REV-X WOOD ROOM 29 REV-X WOOD ROOM 30 REV-X LARGE ROOM 31 REV-X SMALL ROOM 33 REV-X SMALL ROOM 34 REV-X SMALL ROOM 35 REV-X SMALL ROOM 36 REV-X SMALL ROOM 37 REV-X SMALL ROOM 38 REV-X SMALL ROOM 39 REV-X SMALL ROOM 30 REV-X SMALL ROOM 30 REV-X SMALL ROOM 30 REV-X SMALL ROOM 30 REV-X SMALL ROOM 31 REV-X SMALL ROOM 32 REV-X SMALL ROOM 33 REV-X SMALL ROOM 36 REV-X SMALL ROOM 37 REV-X SMALL ROOM 38 REV-X SMALL ROOM	8	AMBIENCE			76	DYNA FLANGE		
11 BRIGHT HALL 12 BREATHY REVERB 13 CONCERT HALL 14 REVERB FLANGE 15 REVERB STAGE 16 REV-X VOCAL PLT 17 REV-X BRIGHT PLT 18 REV-X SNARE PLT 19 VOCAL PLATE 20 ECHO ROOM 1 21 ECHO ROOM 2 22 PRESENCE REVERB 23 ARENA 24 THIN PLATE 25 OLD PLATE 26 DARK PLATE 27 REV-X WOOD ROOM 29 REV-X WOOD ROOM 29 REV-X WARM ROOM 31 REV-X MED ROOM 31 REV-X MED ROOM 32 REV-X SMALL ROOM 33 REV-X SMALL ROOM 33 REV-X SLAP ROOM 36 MULTI FILTER 80 MULTI FILTER 81 FILTERE VOICE 82 DISTORTION 81 FILTERE PLANGE 82 DISTORTION 84 DISTORTION 85 REV-CHORUS 86 REV-CHORUS 86 REV-CHORUS 87 REV+FLANGE 88 REV-SYMPHONIC 89 REV-CHORUS 90 DELAY-ER 91 DELAY-ER 92 DELAY-ER 94 DELAY-ER 95 DELAY-ER 96 RESO DRONE 97 FREEZE 98 SAMPLING	9	STEREO HALL			77	DYNA PHASER		
12 BREATHY REVERB 13 CONCERT HALL 14 REVERB FLANGE 15 REVERB STAGE 16 REV-X VOCAL PLT 17 REV-X BRIGHT PLT 18 REV-X SNARE PLT 19 VOCAL PLATE 20 ECHO ROOM 1 21 ECHO ROOM 2 22 PRESENCE REVERB 23 ARENA 24 THIN PLATE 25 OLD PLATE 26 DARK PLATE 27 REV-X CHAMBER 28 REV-X WARM ROOM 30 REV-X WARM ROOM 31 REV-X WARD ROOM 32 REV-X SMALL ROOM 33 REV-X SMALL ROOM 33 REV-X SLAP ROOM 33 REV-X SLAP ROOM 33 REV-X SLAP ROOM 33 REV-X SLAP ROOM 36 REV-X STAGE 80 MULTI FILTER 81 FILTERED VOICE 82 DISTORTION B1 FILTERD VOICE 82 DISTORTION B2 DISTORTION B3 AMP SIMULATOR B4 FILTERD VOICE B2 DISTORTION B4 REV-FLANGE B4 DIST-→PLANGE B5 DIST-→PLANGE B4 REV-FLANGE B5 DIST-→PLANGE B6 REV-FLANGE B7 REV-FLANGE B8 REV-FLANGE B9 REV-FLAN	10	VOCAL CHAMBER			78	DYNA FILTER	FILTER	YELLOW
13 CONCERT HALL 14 REVERB FLANGE 15 REVERB STAGE 16 REV-X VOCAL PLT 17 REV-X BRIGHT PLT 18 REV-X SNARE PLT 19 VOCAL PLATE 20 ECHO ROOM 1 21 ECHO ROOM 2 22 PRESENCE REVERB 23 ARENA 24 THIN PLATE 25 OLD PLATE 26 DARK PLATE 27 REV-X WOOD ROOM 28 REV-X WOOD ROOM 29 REV-X WARM ROOM 30 REV-X WARM ROOM 31 REV-X MED ROOM 32 REV-X SMALL ROOM 33 REV-X SMALL ROOM 33 REV-X SLAP ROOM 33 REV-X SLAP ROOM 36 REV-X SLAP ROOM 37 REV-X SLAP ROOM 38 PILTERED VOICE 82 DISTORTION 83 AMP SIMULATOR 84 DISTORTION 84 REV-DHORUS 85 DIST→PLANGE 86 REV-CHORUS 87 REV-FLANGE 88 REV-SYMPHONIC 89 REV-SYMPHONIC 89 REV-Y-SYMPHONIC 89 RE	11	BRIGHT HALL			79	M. BAND DYNA		
14 REVERB FLANGE 15 REVERB STAGE 16 REV-X VOCAL PLT 17 REV-X BRIGHT PLT 18 REV-X SNARE PLT 19 VOCAL PLATE 20 ECHO ROOM 1 21 ECHO ROOM 2 22 PRESENCE REVERB 23 ARENA 24 THIN PLATE 25 OLD PLATE 26 DARK PLATE 27 REV-X CHAMBER 28 REV-X WOOD ROOM 29 REV-X WARM ROOM 30 REV-X LARGE ROOM 31 REV-X MED ROOM 32 REV-X SMALL ROOM 33 REV-X SMALL ROOM 33 REV-X SLAP ROOM 33 REV-X SLAP ROOM 33 REV-X SLAP ROOM	12	BREATHY REVERB			80	MULTI FILTER		
15 REVERB STAGE 16 REV-X VOCAL PLT 17 REV-X BRIGHT PLT 18 REV-X SNARE PLT 19 VOCAL PLATE 20 ECHO ROOM 1 21 ECHO ROOM 2 22 PRESENCE REVERB 23 ARENA 24 THIN PLATE 25 OLD PLATE 26 DARK PLATE 27 REV-X CHAMBER 28 REV-X WOOD ROOM 29 REV-X WARM ROOM 30 REV-X LARGE ROOM 31 REV-X MAED ROOM 32 REV-X SMALL ROOM 33 REV-X SLAP ROOM 33 REV-X SLAP ROOM 36 REV-X SLAP ROOM 37 REV-X SLAP ROOM 38 AMP SIMULATOR B4 DIST→FLANGE 85 DIST→DELAY 86 REV-CHORUS 87 REV-CHORUS 88 REV-SYMPHONIC 89 REV-S DELAY-ER 90 DELAY-ER 91 DELAY-ER 92 DELAY-ER 93 DELAY-REV 94 DELAY-REV 95 DELAY-REV 96 RESO DRONE 97 FREEZE SAMPLING	13	CONCERT HALL			81	FILTERED VOICE		
16 REV-X VOCAL PLT	14	REVERB FLANGE			82	DISTORTION	DISTORTION	
17 REV-X BRIGHT PLT 18 REV-X SNARE PLT 19 VOCAL PLATE 20 ECHO ROOM 1 21 ECHO ROOM 2 22 PRESENCE REVERB 23 ARENA 24 THIN PLATE 25 OLD PLATE 26 DARK PLATE 27 REV-X CHAMBER 28 REV-X WOOD ROOM 30 REV-X WARM ROOM 31 REV-X WARM ROOM 32 REV-X SMALL ROOM 33 REV-X SMALL ROOM 33 REV-X SLAP ROOM 33 REV-X SLAP ROOM	15	REVERB STAGE			83	AMP SIMULATOR		
18 REV-X SNARE PLT 19 VOCAL PLATE 20 ECHO ROOM 1 21 ECHO ROOM 2 22 PRESENCE REVERB 23 ARENA 24 THIN PLATE 25 OLD PLATE 26 DARK PLATE 27 REV-X CHAMBER 28 REV-X WOOD ROOM 29 REV-X WARM ROOM 30 REV-X WARM ROOM 31 REV-X MED ROOM 32 REV-X SMALL ROOM 33 REV-X SLAP ROOM 33 REV-X SLAP ROOM 33 REV-X SLAP ROOM	16	REV-X VOCAL PLT	PLATE		84	DIST→FLANGE		
10	17	REV-X BRIGHT PLT			85	DIST→DELAY		
10 10 10 10 10 10 10 10	18	REV-X SNARE PLT			86	REV→CHORUS	COMBINATION	
20	19	VOCAL PLATE			87	REV+FLANGE		
22 PRESENCE REVERB 23 ARENA 24 THIN PLATE 25 OLD PLATE 26 DARK PLATE 27 REV-X CHAMBER ROOM 28 REV-X WOOD ROOM 29 REV-X WARM ROOM 31 REV-X LARGE ROOM 31 REV-X SMALL ROOM 32 REV-X SMALL ROOM 33 REV-X SLAP ROOM	20	ECHO ROOM 1						
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24 THIN PLATE 25 OLD PLATE 26 DARK PLATE 27 REV-X CHAMBER ROOM 28 REV-X WOOD ROOM 30 REV-X LARGE ROOM 31 REV-X MED ROOM 32 REV-X SMALL ROOM 33 REV-X SMALL ROOM 34 REV-X SLAP ROOM 35 REV-X SLAP ROOM 36 REV-X SLAP ROOM	22	PRESENCE REVERB			90	DELAY+ER 1		
25 OLD PLATE 26 DARK PLATE 27 REV-X CHAMBER 28 REV-X WOOD ROOM 29 REV-X WARM ROOM 30 REV-X LARGE ROOM 31 REV-X MED ROOM 32 REV-X SMALL ROOM 33 REV-X SMALL ROOM 34 REV-X SLAP ROOM	23	ARENA			91	DELAY+ER 2		
26 DARK PLATE 27 REV-X CHAMBER 28 REV-X WOOD ROOM 29 REV-X WARM ROOM 30 REV-X LARGE ROOM 31 REV-X MED ROOM 32 REV-X SMALL ROOM 33 REV-X SMALL ROOM 33 REV-X SLAP ROOM	24	THIN PLATE			92	DELAY→ER 1		
27 REV-X CHAMBER ROOM 28 REV-X WOOD ROOM 29 REV-X WARM ROOM 30 REV-X LARGE ROOM 31 REV-X MED ROOM 32 REV-X SMALL ROOM 33 REV-X SMALL ROOM 34 REV-X SMALL ROOM 35 REV-X SMALL ROOM 36 REV-X SMALL ROOM 37 REV-X SMALL ROOM	25	OLD PLATE			93			
28 REV-X WOOD ROOM 96 RESO DRONE 97 FREEZE SAMPLING 98 REV-X WARM ROOM 99 REV-X LARGE ROOM 91 REV-X MED ROOM 92 REV-X SMALL ROOM 93 REV-X SMALL ROOM 94 REV-X SMALL ROOM 95 REV-X SMALL ROOM 96 RESO DRONE 97 FREEZE SAMPLING 97 FREEZE SAMPLING 98 REV-X SMALL ROOM 96 RESO DRONE 97 FREEZE SAMPLING 97 FREEZE SAMPLING 98 REV-X SMALL ROOM 96 RESO DRONE 97 FREEZE SAMPLING 97 FREEZE SAMPLING 98 REV-X SMALL ROOM 96 RESO DRONE 97 FREEZE SAMPLING 97 FREEZE SAMPLING 98 REV-X SMALL ROOM 96 RESO DRONE 97 FREEZE SAMPLING 97 FREEZE SAMPLING 98 REV-X SMALL ROOM 97 FREEZE SAMPLING 98 REV-X SMALL ROOM 97 FREEZE SAMPLING 98 REV-X SMALL ROOM 98 REV-X SMALL ROOM 97 FREEZE SAMPLING 98 REV-X SMALL ROOM 98 REV-X SMALL ROOM 97 FREEZE SAMPLING 98 REV-X SMALL ROOM 98	26	DARK PLATE			94	DELAY+REV		
Proceedings Process	27	REV-X CHAMBER	ROOM		95			
27 REV-X MARKE ROOM	28	REV-X WOOD ROOM			96			
31 REV-X MED ROOM 32 REV-X SMALL ROOM 33 REV-X SLAP ROOM	29	REV-X WARM ROOM			97	FREEZE	SAMPLING	
32 REV-X SMALL ROOM 33 REV-X SLAP ROOM	30	REV-X LARGE ROOM						
33 REV-X SLAP ROOM	31	REV-X MED ROOM						
	32	REV-X SMALL ROOM						
34 FAT REFLECTIONS	33	REV-X SLAP ROOM						
	34	FAT REFLECTIONS						

CLASSIC BANK

Vo.	EFFECT NAME	LCD COLOR
1	REV1 HALL	GREEN
2	REV2 ROOM	
3	REV3 VOCAL	
4	REV4 PLATE	
5	EARLY REF1	
6	EARLY REF2	
7	DELAY LR	
8	STEREO ECHO	
9	STEREO FLANGE A	
10	STEREO FLANGE B	
11	CHORUS A	
12	CHORUS B	
13	STEREO PHASING	
14	TREMOLO	
15	SYMPHONIC	
16	GATE REVERB	
17	REVERSE GATE	
18	REVERB & GATE	
19	PITCH CHANGE A	
20	PITCH CHANGE B	
21	PITCH CHANGE C	
22	PITCH CHANGE D	
23	FREEZE A	
24	FREEZE B	
25	PAN	

5 COLOR LCD PRESET ASSIGNMENT

CYAN REVERB & ER

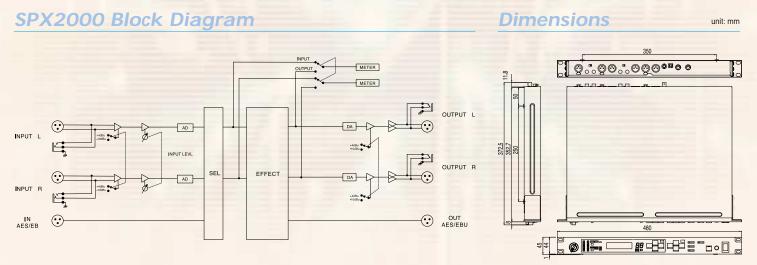
STEREO DELAY WHITE DELAY & ECHO

MAGENTA PITCH CHANGE

FILTER, DISTORTION MULTIPLE & FREEZE

GREEN

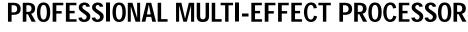
CLASSIC BANK



Rear Panel



















35 BIG SNARE

36 BAMBOO ROOM

37 REFLECTIONS 38 STONE ROOM

39 CONCRETE ROOM

40 REVERSE PURPLE

41 FULL METAL GATE

REVERSE GATE

44 DRUM MACH AMB I

47 120 BPM MONO DDL

45 ELECT. SNR PLAT

48 120 BPM X-DDL

KARAOKE ECHO

2 GOOD OL P.CHANGE

49 STEREO DELAY

50 DELAY LCR

53 VOCAL SHIFT

54 STEREO PITCH

55 PITCH SLAP

56 HALO COMB

61 SYMPHONIC

57 GRUMPY FLUTTER

58 ROGER ON THE 12

59 BOTTOM WHACKER

62 REV+SYMPHONIC

63 DETUNE CHORUS

64 CHORUS & REVERB

BASS CHORUS

66 STEREO PHASING 67 CLASSY GLASSY

VOICE DOUBLER

46 MONO DELAY

DRUM MACH. AMB S

GATE REVERB

PITCH EFFECTS MAGENTA





