

## 2 x 160 PROGRAMS / EFFECTS INDEX

**00 → 010 STEREO GEN.** Adds a short delay to the signal to create a pseudo stereo effect out of mono sources.

**011 → 030 HALO** It's a digital recreation of the old magnetic Montarbo reverb. A typical 60s effect, with a real vintage character.

**031 → 040 ECHO** Classic multiplex effect. Delay time increases with program number.

**041 → 050 ECHO + REV.** Delay and reverb blended together make for the impressive effect you can listen on most contemporary productions).

**051 → 060 VOICE REV.** Reverbs specially tailored to enhance vocals' character.

**061 → 070 PERCUSSION REV.** Ambience effects that enrich both acoustic and electronic percussions.

**071 → 080 HALO + REVERB** Halo and reverb effects blended together.

**081 → 089 PING PONG** Basically an auto-panned delay, popular on many rock hits, the samples are being routed alternatively to full left and full right master.

**090 BOUNCE** Repeats start widely spaced to become closer and closer.

**091 → 100 EARLY REFLECTIONS** Adds early reflections without the decaying reverb. Useful to thicken many different sounds.

**101 → 110 STEREO FLANGER** It may be considered as a very intense chorus, with two voices crossing their stereo image and with feedback acting as 'comb filter'. The frequencies corresponding to the filter's notches and peaks change continuously, thus producing the typical flanging sound.

**111 → 120 STEREO CHORUS** It produces a warm and rich sound. Three voices are derived from the input signal and are sent to the Left and Right channels and to the center. The result is that even the thinner voice will sound like an ensemble. It is ideal to enliven a guitar accompaniment and to 'fatten' a voice.

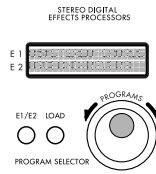
**121 → 130 DETUNE** Slightly alters the tuning of the source to simulate a 'doubling' effect with increased tuning alterations.

**131 → 136 DUAL PITCH** A wonderful 'harmonizer' with two voices trasposing the input signal pitch in real-time. Your voice will be automatically accompanied by a chorus.

**137 → 140 SINGLE PITCH** Harmonizer with one voice trasposing the input signal pitch in real-time.

**141 → 150 PITCH CHANGE + REV.** It's the combination of the two effects which most of all let your voice sound warmer and thicker. Beside your voice, the Pitch Change provides a voice in the center of the stereo image. To the resulting harmonizer effect a warm Plate type Reverb effect, particularly suited for voice, is added in cascade.

**151 → 160 REVERSE REVERB** Unmistakably a 'must' of many 80's records, starts at low level, builds up and quit abruptly. Usually served with percussion.



## MIXER SECTION

• Mono input channels:	8
Micro (sensitivity / impedance)	- 60dB / 2,2 kOhms
Line (sensitivity / impedance)	- 30dB / 33 kOhms
Phantom power supply	48 V
Channel gain range	30dB
Equalization	HF: ±20dB @ 15kHz MF (freq.): 0,18 ÷ 3kHz MF (level): ±15dB LF: ±20dB @ 50Hz
• Stereo input channels:	4
Line L/R (sensitivity / impedance)	- 30dB / 33K
Channel gain range	30dB
Equalization	HF : ±15dB @ 15kHz (shelving) MF: ±15dB @ 600Hz (peaking) LF : ±15dB @ 50Hz (shelving)
• All channels:	
Equivalent input noise	-126dB
Peak LED indicator	+ 16dB, 6dB before clipping
Fader (throw / attenuation)	60mm / > 80dB
• Dual Multieffect DSP	
A-D and D-A conversion	24 bit Delta/Sigma conversion
Internal DSP	56 bit
Bandwidth	40Hz ÷ 15kHz
THD	< 0,1%
SNR	> 98dB
• External effect send	2
Nominal level	-10dB
Impedance	600 Ohms
Max level	+ 20dB
• External effect return (stereo)	2
Nominal level	-10dB
Impedance	10kOhms
Max level	+ 20dB
• Master outputs	L/R, Mono out
Nominal level	0dB
Impedance	100 Ohms
Max. level	+ 22dB
Min. load impedance	600
Frequency response	20Hz±20kHz ±2dB
THD	< 0,03%
SNR	80dB
Stereo graphic equalizer	31-63-125-250-500 Hz 1-2-4-8-16 kHz ±12dB
• Monitor outputs: Nom. level / Max. level	0dB / + 20dB
• L/R Insert outputs: Nom. level / Max. level	0dB / +22dB
• Tape in: Nominal level	- 20dB
• Tape out: Nominal level	- 10dB
• Headphones: Load impedance	200 ÷ 600 Ohms
• Dimensions (W x H x D):	72 x 17 x 61 cm
• Weight:	25 kg

## AMPLIFIER SECTION

Amplifiers	2, Mosfet (AB class)
Total output power (Watt continuous)	350 + 350 W / 4 Ohms
Total output power (Watt peak)	650 + 650 W / 4 Ohms
Frequency response	30Hz 25kHz 1dB
THD	< 0,1% / 350 W / 4 Ohms
Protections	thermal, electronic, delayed power-up sequence, automatic trouble-shooting, forced cooling.