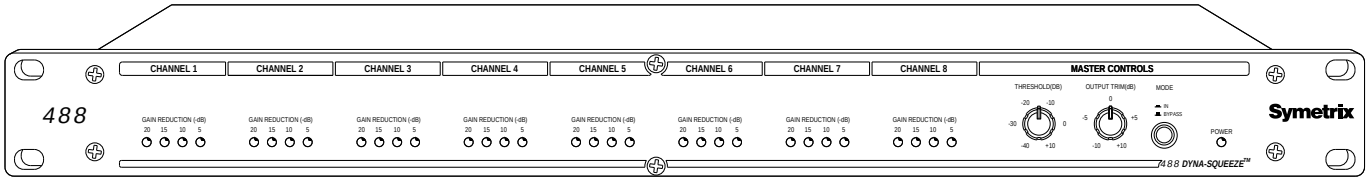

EVER WONDER WHAT SETS THE REALLY SUCCESSFUL ENGINEERS and producers apart from the Joe Average ones? Well, from our conversations with Grammy Award winners there appear to be lots of things. In our quest for new product ideas, these experts provided us with some valuable clues. No matter what brand console or recorder they use there's a sacred, unwritten rule: pay meticulous attention to levels and cut tracks hot!

The Symetrix 488 DYNA-Squeeze™ is an eight channel compressor/interface for use with digital multitrack recorders/workstations in recording and production studios. Interfaced between mixing console and recorder, the 488 gently squeezes your tracks toward the upper end of the recorder's dynamic range, giving digital recordings the feel of analog while preserving the clarity of digital. The results are impressive, the tracks are hot!

Tracks processed by DYNA-Squeeze have "presence" and increased articulation which is lacking in unprocessed tracks. Vocals punch. Acoustic instruments and drums come forward. Reverb "tails", cymbal decays. And other subtle nuances are more up front. When it's time to mix, DYNA-Squeeze'd tracks let engineers and producers sit back and concentrate on the creative aspects of the mix instead of riding gain on tracks that were cut at the wrong levels. Ask anyone who knows - better basic tracks make for a better final mix. With DYNA-Squeeze tracking goes faster and sound quality gets better. It's that simple.

For all their strengths, digital recording devices have several distinct weaknesses: at high levels, they're very unforgiving. Hit them with just a little too much input level and WHAMO! Digital clipping and unusable audio. At low levels they lack the resolution to accurately reproduce the signals at their input. Subjectively, most engineers and producers hear this as "graininess". So what do people do? They record at very conservative, very low levels to avoid clipping; therefore accepting reduced signal to noise ratio, and an increase in low level distortion! Engineers who painstakingly ride gain down to avoid digital clipping rob themselves of valuable creative time while they're lucky to get 12 bits out of a well designed 16 bit recording system. Is this trade-off really necessary? Not at all. Not with DYNA-Squeeze!

The 488 is easy to use. Set up is embarrassingly simple. Just use standard patch cords to connect DYNA-Squeeze between your console's bus outputs and your recorder's inputs. Once connected, guess what? You don't have to run the faders on your console at ridiculously low levels any more to avoid overloading your recorder! Most analog consoles put out much more level than digital (or analog) multi-tracks will accept. Most likely your console outputs go to +24 level. The unbalanced input of the ADAT, for example, reaches full scale (digital clip) at +8 dBV! Enter DYNA-Squeeze. DYNA-Squeeze's rear panel +4/-10 switch lets you come at DYNA-Squeeze full on (our input doesn't clip until +24!). Then we drop our output signal by just the right amount to perfectly interface to ADAT and DA-88. A single, wide range threshold control sets the amount of gain riding for all eight channels. Run your console levels up to where you're comfortable, adjust the DYNA-Squeeze threshold for the sound you like, and take off. That's all there is to it.

If you record to digital tape (ADAT, DA-88, 3324, etc.) or to a disk-based workstation (Pro Tools, Spectral, SADIE, etc.) or if you still prefer an analog recorder, the Symetrix 488 DYNA-Squeeze can make your job easier and make you sound better. With almost two decades of experience designing and manufacturing cutting edge gain controllers, we've come up with a unique product that is unbeatable in performance and price. •

APPLICATIONS

Album Tracking

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Jingle Production

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Audio for Video Production

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Use with ADAT™, DA-88™, Pro Tools™ and others

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Live Recording

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PA System Subgroups

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FEATURES

Higher average recording levels

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Increased "presence"

▪

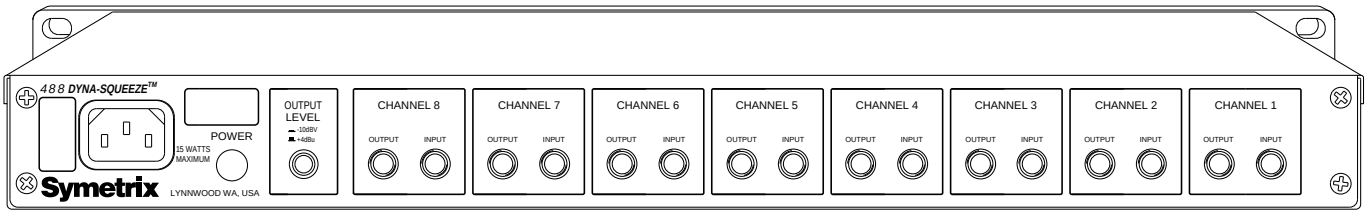
Level matching to digital recorders

▪

Minimum component signal path for sonic transparency

▪

488



SPECIFICATIONS

Specifications subject to change without notice.

Input/Output	
Inputs	Eight, Balanced Bridging
Outputs	Eight, Unbalanced, Zero Ohm source
Input Connectors	¼" tip-ring-sleeve
Output Connectors	¼" tip-sleeve
Polarity	Input: tip of jack is high, ring is low, sleeve is ground Output: tip is high, sleeve is ground
Maximum Input Level	+24 dBu
Maximum Output Level	+18 dBu into 2k Ohms

Performance Data	
Frequency Response	+0, -1 dB, 20 Hz - 20 kHz
THD+Noise	<0.05%, 0 dBu in, 10 dB gain reduction, 1 kHz
Dynamic Range	>110 dB
Maximum Compression	38 dB
Input Common Mode Rejection	>40 dB @ 1 kHz
Crosstalk	-100 dB, +20 dBu in, 20 Hz - 20 kHz
Attack Time	1.5 milliseconds
Release Time	1.2 seconds
Threshold Range	-40 dBu to +10 dBu
Ratio	2.5:1 (soft knee)
Nominal Output Level	+4 dBu, -10 dBV (switch selectable)
Output Noise	-90 dBu, broadband
Output Trim Range	-10 dB to +10 dB

Physical	
Size (hwd)	1.72 x 19 x 7.25 inches, 4.37 x 48.26 x 18.415 centimeters
Shipping Weight	8 lbs (3.63kg)

Electrical	
Power Requirements	117V nominal, 105 to 130V AC, 50 to 60 Hz, 15 watts 230V nominal, 207 to 255V AC, 50 Hz, 15 watts

488 ARCHITECTS AND ENGINEERS SPECIFICATIONS

The Eight Channel Compressor/Interface shall be a high performance, eight-input, eight-output compressor and signal level interface. It shall occupy a single rack space (1U).

The unit shall contain eight independent compressors. All eight channels are operated from a single set of controls. It shall not be possible to alter the settings of one channel relative to the remaining channels.

An overall threshold control shall determine the threshold of the entire unit simultaneously. An overall gain trim control shall alter the overall gain of all channels simultaneously over a range of ±10 dB. A single in/out switch shall disable all channels simultaneously. The output signal level shall be switchable between +4 dBu and -10 dBV via a single switch for all channels.

Each channel shall have a single balanced input and a single unbalanced output. All input and output connectors shall utilize tip-ring-sleeve (TRS) ¼" jacks. The inputs shall be active balanced bridging designs incorporating LC low-pass filters for RFI suppression.

Independent four-element bar graph displays shall be provided for monitoring the degree of gain reduction for each channel.

The compressor shall be capable of operating by means of its own built-in power supply connected to 117V nominal AC (105-130V) 50/60 Hz.

The unit shall be a Symetrix, Incorporated model 488 DYNA- Squeeze™.

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