

ACTIVE TOC™ SYSTEMS

When maximum performance and reliability is required, the 2 channel TOC™ processor is the solution.

The TOC™ processor allows PAS engineers to more precisely dial in the performance of the TOC™ Systems Group. The result is a loudspeaker system with smoother amplitude response, increased bandwidth and reliability with the ideal phase response found in TOC™ products. This processor includes:

- Four Pole Linear Phase Dividing filters.
- Time Offset Correction.
- Precise equalization.
- High pass filters for low frequency excursion protection.
- Compressors/Limiters for component protection.
- Subwoofer output.

PASSIVE DIVIDING NETWORKS WITH TOC™

Dividing networks separate and deliver the appropriate frequency ranges to the components designed to accommodate those frequencies. How the components are combined through the network design will determine the quality and performance of the loudspeaker.

PAS engineering incorporates a number of filter types resulting in a seamless transition between components. These complex networks set a performance standard in the TOC™ Systems Group that clearly surpasses the competition. These passive networks include:

- Linear phase dividing filters.
- Time Offset Correction, allowing all components to propagate energy from an identical acoustic source.
- Amplitude equalization networks.
- Impedance equalization networks.

The combination of these elements results in ideal phase response, characteristic of all products of the TOC™ Systems Group.

TOC™ PROCESSOR SPECIFICATIONS:

INPUT:

Type	<i>XLR, Electronically Balanced (Differential), AC coupled</i>
Maximum Input Level	<i>+24 dBv (16 VRMS) (20-20 kHz)</i>
Input Impedance	<i>28k ohm differential (balanced) 4k ohm to ground (from pin 2 or 3)</i>
Common Mode Rejection	<i>>50 dB (20-20kHz)</i>

OUTPUT:

Type	<i>XLR, Electronically Balanced (Differential), AC coupled (Transformer isolated option board)</i>
Maximum Output Level	<i>+24 dBv, Balanced: +18 dBv, Unbalanced Switchable with no change in gain.</i>
Output Impedance	<i>22 ohm</i>
Maximum Load	<i>150 ohm</i>
Maximum Capacitive Load	<i>33 nf (Stable with >500 feet of belden snake cable.)</i>

MECHANICAL

Dimensions	<i>19" (483mm) wide 3.475" (88mm) high 8.5" (216mm) behind mounting surface</i>
Weight	<i>9 lb. 12 oz (4.43 kg)</i>

ELECTRICAL

Option	Voltage Range	Fuse
<i>120v</i>	<i>90-135 V 50-60 Hz</i>	<i>630 ma</i>
<i>230v</i>	<i>190-270 V 50-60 Hz</i>	<i>315 ma</i>
<i>100v</i>	<i>75-115 V 50-60 Hz (100 V special order for Japan)</i>	<i>800 ma</i>
Line Voltage Power	<i>25 watts</i>	



TOC™ processors meet the requirements of the Disturbance Voltage (CE), Disturbance Current (RE), and Steady State Harmonics tests in accordance with EN55013-1990 and EN 61000-3-2:1995. They comply with EN 60065:1994 (73/23/EEC Low Voltage Directive).