

## DESCRIPTION

The NTL720 is a very compact, self-powered, 3-way line array loudspeaker module. Designed for the demands of professional use, it is ideal for main PA in both portable and installed applications, including theatres/auditoriums, corporate AV, houses of worship, and live concert events.

One large MF/HF horn fills the entire face of the enclosure, better maintaining horizontal pattern control throughout the MF/HF passband. The curved aperture MF loading slots in the horn decrease the percentage of open area at any point along the horn, which greatly minimizes interference to the HF wavefront. The side-mounted LF drivers are frequency shaded, providing proper integration with the front-firing LF/MF drivers while supplying additional LF output and extended horizontal pattern control.

Self-powering is supplied by three individual 500-watt Class D amplifier modules precisely matched to their own digital signal processors. Each DSP provides response correction as well as EQ, delay, level, and delay for additional tailoring and alignment control. Further, EAW's Gunness Focusing<sup>™</sup> digital filter algorithms generate precise, complex, filter responses, resulting in a powerful, horn-loaded loudspeaker that has the natural, open, detailed reproduction of the best direct radiating designs.

EAWPilot control software provides comprehensive DSP control as well as monitoring of amplifier status. Input selection is a choice of analog, AES left/right, and EAW's proprietary U-Net. Communication connection options include U-Net and a USB port on the back panel for interfacing with the DSP.

The FastLatch<sup>™</sup> proprietary rigging system is extremely quick and easy to use, in tandem with the very small and light enclosure. Cabinet splay angles are selectable in 3-degree increments between 12 and 0 degrees. Driver, horn and electronic components - and even entire modules - can be replaced within built array structures, whether flown or stacked.

Six year loudspeaker warranty. Two year electronics warranty.

CONFIGURATION Subsystem		
Cubbyotom	Transducer	Loading
LF	2x 6 in, 1.75 in voice coil	Sealed
	cone driver	
LMF	2x 6 in, 1.75 in voice coil	Sealed
	cone driver	
HF	6x 1 in dome tweeter	
Operating Mode		
	Amplifier Channels	Signal Processing
Tr-amp	LF, LMF, HF	DSP
ACOUSTICAL PERF	ORMANCE	
Operating Range	75 Hz to 21 kHz	
Output (Single Cabin	let)	
	Peak	Cont
Full Range	133 dB	127 dB
 LF		122 dB
MF		122 dB
HF		122 dB
Nominal Beamwidth		
Horz	110°	
Vert	12°	
ELECTRICAL PERFO	ORMANCE	
Input		
Туре	Electronically balanced	
Sensitivity	2.5V Sensitivity	
Impedance	20 kohm balanced input im	pedance
Wiring	Pin 1 chassis, Pin 2 +, Pin	3 -
	Also, separate loop thru XL	
	7 100, ocparate 100p till a 71	_RM
DSP		.RM
DSP Encoding	24 Bit, 48 kHz	.RM
		.RM
Encoding	24 Bit, 48 kHz 2.97 ms latency	RM
Encoding Latency	24 Bit, 48 kHz 2.97 ms latency	Box
Encoding Latency	24 Bit, 48 kHz 2.97 ms latency SP	
Encoding Latency User Addressable DS	24 Bit, 48 kHz 2.97 ms latency SP Array	Вох
Encoding Latency User Addressable DS EQ	24 Bit, 48 kHz 2.97 ms latency SP Array 10 Parametric	Box 10 Parametric
Encoding Latency User Addressable DS EQ Delay	24 Bit, 48 kHz 2.97 ms latency SP Array 10 Parametric 600 ms	Box 10 Parametric 1200 ms
Encoding Latency User Addressable DS EQ Delay Level	24 Bit, 48 kHz 2.97 ms latency SP Array 10 Parametric 600 ms 15 dB +/- 3x Modified Class D	Box 10 Parametric 1200 ms
Encoding Latency User Addressable DS EQ Delay Level Amplifier Type Maximum Output	24 Bit, 48 kHz 2.97 ms latency SP Array 10 Parametric 600 ms 15 dB +/- <b>3x</b>	Box 10 Parametric 1200 ms
Encoding Latency User Addressable DS EQ Delay Level Amplifier Type Maximum Output THD + Noise	24 Bit, 48 kHz 2.97 ms latency SP Array 10 Parametric 600 ms 15 dB +/- 3x Modified Class D 45 V, 500 W @ 4 ohms <0.1%	Box 10 Parametric 1200 ms
Encoding Latency User Addressable DS EQ Delay Level Amplifier Type Maximum Output THD + Noise Dynamic Range	24 Bit, 48 kHz 2.97 ms latency SP Array 10 Parametric 600 ms 15 dB +/- 3x Modified Class D 45 V, 500 W @ 4 ohms	Box 10 Parametric 1200 ms
Encoding Latency User Addressable DS EQ Delay Level Amplifier Type Maximum Output THD + Noise	24 Bit, 48 kHz 2.97 ms latency SP Array 10 Parametric 600 ms 15 dB +/- 3x Modified Class D 45 V, 500 W @ 4 ohms <0.1%	Box 10 Parametric 1200 ms
Encoding Latency User Addressable DS EQ Delay Level Amplifier Type Maximum Output THD + Noise Dynamic Range	24 Bit, 48 kHz 2.97 ms latency SP Array 10 Parametric 600 ms 15 dB +/- 3x Modified Class D 45 V, 500 W @ 4 ohms <0.1%	Box 10 Parametric 1200 ms
Encoding Latency User Addressable DS EQ Delay Level Amplifier Type Maximum Output THD + Noise Dynamic Range	24 Bit, 48 kHz 2.97 ms latency SP Array 10 Parametric 600 ms 15 dB +/- 3x Modified Class D 45 V, 500 W @ 4 ohms <0.1% >102 dB	Box 10 Parametric 1200 ms 15 dB +/- 230 V 220 V to 240 V
Encoding Latency User Addressable DS EQ Delay Level Amplifier Type Maximum Output THD + Noise Dynamic Range AC Mains	24 Bit, 48 kHz 2.97 ms latency SP Array 10 Parametric 600 ms 15 dB +/- 3x Modified Class D 45 V, 500 W @ 4 ohms <0.1% >102 dB 115 V	Box 10 Parametric 1200 ms 15 dB +/- 230 V
Encoding Latency User Addressable DS EQ Delay Level Amplifier Type Maximum Output THD + Noise Dynamic Range AC Mains	24 Bit, 48 kHz 2.97 ms latency SP Array 10 Parametric 600 ms 15 dB +/- 3x Modified Class D 45 V, 500 W @ 4 ohms <0.1% >102 dB 115 V 100 V to 120 V 50 Hz to 60 Hz 0.25 A	Box 10 Parametric 1200 ms 15 dB +/- 230 V 220 V to 240 V
Encoding Latency User Addressable DS EQ Delay Level Amplifier Type Maximum Output THD + Noise Dynamic Range AC Mains	24 Bit, 48 kHz 2.97 ms latency SP Array 10 Parametric 600 ms 15 dB +/- 3x Modified Class D 45 V, 500 W @ 4 ohms <0.1% >102 dB 115 V 100 V to 120 V 50 Hz to 60 Hz	Box           10 Parametric           1200 ms           15 dB +/-           230 V           220 V to 240 V           50 Hz to 50 Hz
Encoding Latency User Addressable DS EQ Delay Level Amplifier Type Maximum Output THD + Noise Dynamic Range AC Mains Input Frequency Current: Idle	24 Bit, 48 kHz 2.97 ms latency SP Array 10 Parametric 600 ms 15 dB +/- 3x Modified Class D 45 V, 500 W @ 4 ohms <0.1% >102 dB 115 V 100 V to 120 V 50 Hz to 60 Hz 0.25 A 6.3 A Fuse Analog, AES L, AES R, U-1	Box 10 Parametric 1200 ms 15 dB +/- 230 V 220 V to 240 V 50 Hz to 50 Hz 0.15 A 3.15 A fuse
Encoding Latency User Addressable DS EQ Delay Level Amplifier Type Maximum Output THD + Noise Dynamic Range AC Mains Input Frequency Current: Idle Fuse Rating	24 Bit, 48 kHz 2.97 ms latency SP Array 10 Parametric 600 ms 15 dB +/- 3x Modified Class D 45 V, 500 W @ 4 ohms <0.1% >102 dB 115 V 100 V to 120 V 50 Hz to 60 Hz 0.25 A 6.3 A Fuse	Box 10 Parametric 1200 ms 15 dB +/- 230 V 220 V to 240 V 50 Hz to 50 Hz 0.15 A 3.15 A fuse
Encoding Latency User Addressable DS EQ Delay Level Amplifier Type Maximum Output THD + Noise Dynamic Range AC Mains Input Frequency Current: Idle Fuse Rating Input Selection	24 Bit, 48 kHz 2.97 ms latency SP Array 10 Parametric 600 ms 15 dB +/- 3x Modified Class D 45 V, 500 W @ 4 ohms <0.1% >102 dB 115 V 100 V to 120 V 50 Hz to 60 Hz 0.25 A 6.3 A Fuse Analog, AES L, AES R, U-1	Box 10 Parametric 1200 ms 15 dB +/- 230 V 220 V to 240 V 50 Hz to 50 Hz 0.15 A 3.15 A fuse Net
Encoding Latency User Addressable DS EQ Delay Level Amplifier Type Maximum Output THD + Noise Dynamic Range AC Mains Input Frequency Current: Idle Fuse Rating Input Selection Communication	24 Bit, 48 kHz 2.97 ms latency SP Array 10 Parametric 600 ms 15 dB +/- 3x Modified Class D 45 V, 500 W @ 4 ohms <0.1% >102 dB 115 V 100 V to 120 V 50 Hz to 60 Hz 0.25 A 6.3 A Fuse Analog, AES L, AES R, U-h USB, U-Net 1, U-Net 2	Box 10 Parametric 1200 ms 15 dB +/- 230 V 220 V to 240 V 50 Hz to 50 Hz 0.15 A 3.15 A fuse Net
Encoding Latency User Addressable DS EQ Delay Level Amplifier Type Maximum Output THD + Noise Dynamic Range AC Mains Input Frequency Current: Idle Fuse Rating Input Selection Communication CONTROLS	24 Bit, 48 kHz 2.97 ms latency SP Array 10 Parametric 600 ms 15 dB +/- 3x Modified Class D 45 V, 500 W @ 4 ohms <0.1% >102 dB 115 V 100 V to 120 V 50 Hz to 60 Hz 0.25 A 6.3 A Fuse Analog, AES L, AES R, U-H USB, U-Net 1, U-Net 2 HF Boost, Nearfield Conto	Box           10 Parametric           1200 ms           15 dB +/-           230 V           220 V to 240 V           50 Hz to 50 Hz           0.15 A           3.15 A fuse           Net           ur           HF Boost Selection
Encoding Latency User Addressable DS EQ Delay Level Amplifier Type Maximum Output THD + Noise Dynamic Range AC Mains Input Frequency Current: Idle Fuse Rating Input Selection Communication CONTROLS	24 Bit, 48 kHz 2.97 ms latency SP Array 10 Parametric 600 ms 15 dB +/- 3x Modified Class D 45 V, 500 W @ 4 ohms <0.1% >102 dB 115 V 100 V to 120 V 50 Hz to 60 Hz 0.25 A 6.3 A Fuse Analog, AES L, AES R, U-H USB, U-Net 1, U-Net 2 HF Boost, Nearfield Conto Signal Present	Box 10 Parametric 1200 ms 15 dB +/- 230 V 220 V to 240 V 50 Hz to 50 Hz 0.15 A 3.15 A fuse Net

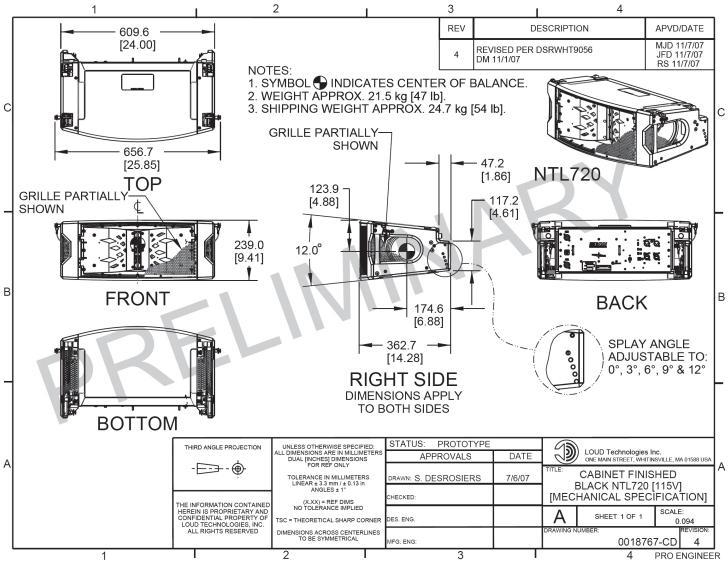
3-WAY SELF-POWERED, 110° x 12°



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# NTL720 Specifications

### DIMENSIONS



NOTE: This drawing has been reduced. Do not scale.

#### **ENCLOSURE**

Material	Baltic birch plywood	
Finish	RoadCoat <sup>™</sup> wear resistant textured black paint	
Grille	Powder-coated perforated steel	
COMPLIANCE		
CE	EN 60065:2002, EN 55103-1:1997, EN 55103-2:1997	
	EN55103-1, EN55103-2, EN60065	
CSA	CAN/CSA60065-03, ULStd No. 60065-03	
FCC	Part 15	

#### PHYSICAL PACKAGE **Cabinet Dimensions** H 9.41 in 239.0 mm 24 in 609.6 mm W D 14.28 in 362.7 mm **Shipping Dimensions** Н 11 in 279.4 mm W 26 in 660.4 mm D 16 in 406.4 mm

 Weight
 47 lbs
 21.5 kg

 Shipping Weight
 54 lbs
 24.7 kg



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