

Illuminator 4" Midrange



Type Number: 12MU/4731T00

Features:

The Illuminator midrange is based on compact under-hung motor systems with large neodymium ring magnets. The patent pending motor offers a very long linear excursion together with a very high force factor. The top plate is shaped to "guide" the backside airflow around the motor and with the very open cast aluminum chassis design the driver is virtually free from compression.

The cone and dust cap is made in one-piece full cone technology.

Driver Highlights: Neo magnet, Under hung motor system



Specs:

Electrical Data

Nominal impedance	Zn	4	ohm
Minimum impedance	Zmin	4,4 / 376	ohm
Maximum impedance	Zo	33,2	ohm
DC resistance	Re	3,2	ohm
Voice coil inductance	Le	0,10	mH

T-S Parameters

Resonance Frequency	fs	63,2	Hz
Mechanical Q factor	Qms	3,34	
Electrical Q factor	Qes	0,31	
Total Q factor	Qts	0,29	
Force factor	Bl	4,6	Tm
Mechanical resistance	Rms	0,6	Kg/s
Moving mass	Mms	5,1	g
Suspension compliance	Cms	1,24	mm/N
Effective cone diameter	D		cm
Effective piston area	Sd	58	cm ²
Equivalent volume	Vas	5,9	ltrs
Sensitivity (2.83V/1m)		89,1	dB
Ratio BL/√(Re)			
Ratio fs/Qts	F		

Power Handling

100h RMS noise test (IEC)	100	W
Long-term Max Power (IEC18.3)	150	W
Max linear SPL (rms) @ power		dB/W
Short-term Max Power (IEC18.2)		W

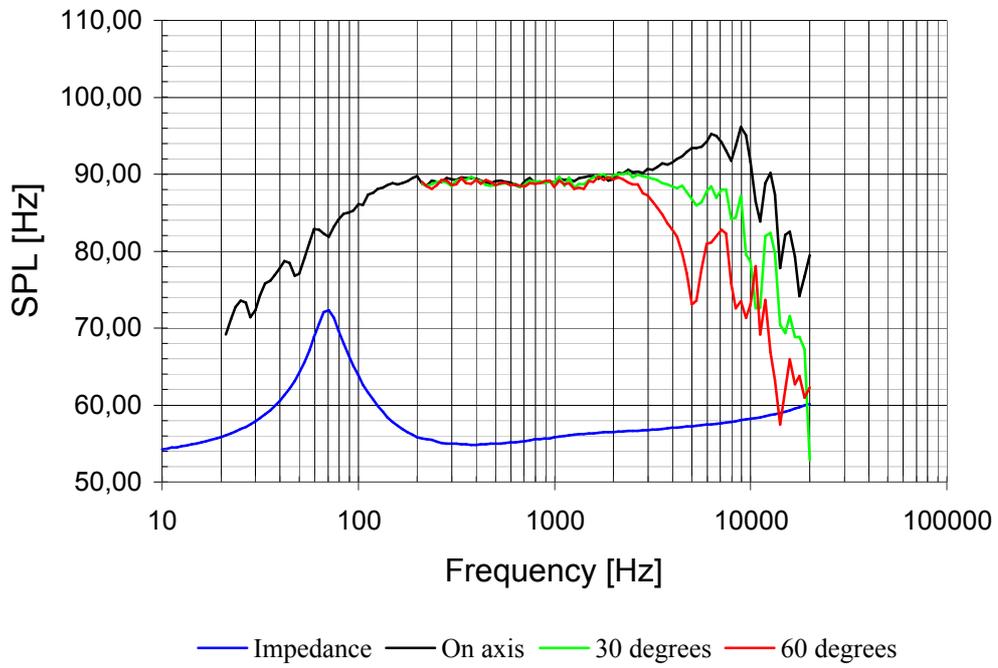
Voice Coil and Magnet Parametres

Voice coil diameter	32,0	mm
Voice coil height	6,0	mm
Voice coil layers	4,0	
Height of gap	13,0	mm
Linear excursion +/-	3,5	mm
Max mech. Excursion +/-	10,0	mm
Flux density of gap		mWb
Total useful flux		mWb
Diameter of magnet	72,0	mm
Height of magnet	5,0	mm
Weight of magnet	0,1	Kg
Unit net weight	0,8	Kg

Notes:

IEC Specs refer to IEC 60268,5 third edition. 200 Hz, 2. order BW
All Scan Speak products are RoHS compliant

Frequency:



Mechanical Dimensions:

