

# Illuminator 4" Midwoofer



Type Number: 12WU/4731T00

## Features:

The Illuminator midwoofer are 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.

### Driver Highlights:

- Neo magnet
- Under hung motor system
- Symmetrical Drive \*
- Low Loss Suspension
- One Piece Cone / Dust Cap
- Rubber Surround



\* Scan-Speak Patent

# Preliminary

## Specs:

### Electrical Data

Nominal impedance	Zn	4	ohm
Minimum impedance	Zmin	4,3 / 376	ohm
Maximum impedance	Zo	40,4	ohm
DC resistance	Re	3	ohm
Voice coil inductance	Le	0,11	mH

### Power Handling

100h RMS noise test (IEC)	40	W
Long-term Max Power (IEC18.3)	80	W

### T-S Parameters

Resonance Frequency	fs	53	Hz
Mechanical Q factor	Qms	3,59	
Electrical Q factor	Qes	0,20	
Total Q factor	Qts	0,19	
Force factor	Bl	5,14	Tm
Mechanical resistance	Rms	0,50	Kg/s
Moving mass	Mms	5,4	g
Suspension compliance	Cms	1,67	mm/N
Effective piston area	Sd	58	cm2
Equivalent volume	Vas	7,9	ltrs
Sensitivity (2.83V/1m)		90,0	dB

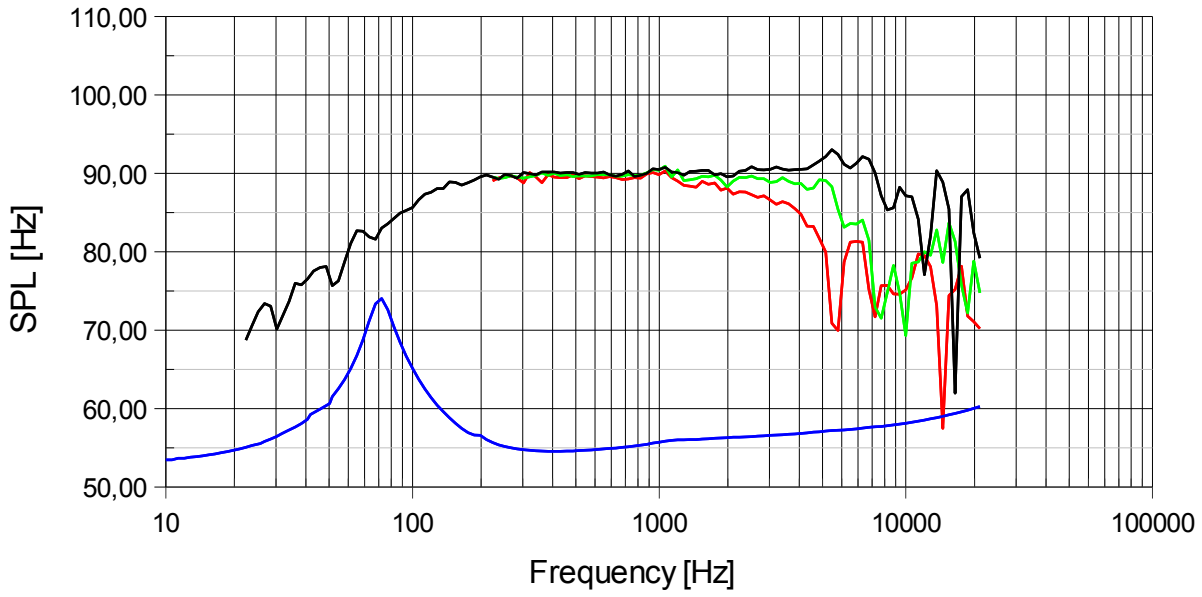
### Voice Coil and Magnet Parametres

Voice coil diameter	32,0	mm
Voice coil height	6,0	mm
Voice coil layers	4	
Height of gap	13,0	mm
Linear excursion +/-	3,5	mm
Max mech. Excursion +/-	10,0	mm
Diameter of magnet	72,0	mm
Height of magnet	5,0	mm
Weight of magnet	0,1	Kg
Unit net weight	0,75	Kg

### Notes:

IEC Specs refer to IEC 60268,5 third sdition.  
All Scan Speak products are RoHS compliant  
U.S. Patent Des. 591,268

Frequency:



— Kolonne N — Kolonne H — Kolonne J — Kolonne L  
— Kolonne N — Kolonne H — Kolonne J — Kolonne L

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Mechanical Dimensions:

