The Illuminator tweeters stand for superb vocal rendition and excellent imaging at all listening locations. Its large roll surround and textile dome diaphragm provides a flat frequency response to above 30kHz with outstanding off-axis dispersion. The unique AirCirc Magnet System, and its rear chamber, results in elimination of reflections and resonances that compromise the performance of traditional motors.

**T-S Parameters**
- Resonance frequency \([f_s]\) 500 Hz
- Mechanical Q factor \([Q_{ms}]\) 3.79
- Electrical Q factor \([Q_{es}]\) 0.62
- Total Q factor \([Q_{ts}]\) 0.54
- Force factor \([B_l]\) 2.3 Tm
- Mechanical resistance \([R_{ms}]\) 0.29 kg/s
- Moving mass \([M_{ms}]\) 0.35 g
- Suspension compliance \([C_{ms}]\) 0.29 mm/N
- Effective diaph. diameter \([D]\) 30 mm
- Effective piston area \([S_d]\) 7 cm²
- Equivalent volume \([V_{as}]\) 0.02 l
- Sensitivity (2.83V/1m) 91.5 dB
- Ratio \(B_l/V/Re\) 1.33 N/V/W
- Ratio \(f_s/Q_{ts}\) 933 Hz

**Electrical Data**
- Nominal impedance \([Z_n]\) 4 Ω
- Minimum impedance \([Z_{min}]\) 3.9 Ω
- Maximum impedance \([Z_o]\) 21.2 Ω
- DC resistance \([R_e]\) 3 Ω
- Voice coil inductance \([L_e]\) 0.03 mH

**Power Handling**
- 100h RMS noise test (IEC 17.1)* 90 W
- Long-term max power (IEC 17.3)* 150 W
  *Filter: 2. order HP Butterworth, 2.5 kHz

**Voice Coil and Magnet Data**
- Voice coil diameter 26 mm
- Voice coil height 2.1 mm
- Voice coil layers 2
- Height of gap 2.5 mm
- Linear excursion ± 0.2 mm
- Max mech. excursion ± 1.6 mm
- Unit weight 0.3 kg

**Notes:**
IEC specs, refer to IEC 60268-5 third edition. All Scan-Speak products are RoHS compliant. Data are subject to change without notice. Datasheet updated: February 22, 2011.
Advanced Parameters (Preliminary)

Electrical data:
- Resistance [Re'] - Ω
- Free inductance [Leb] - mH
- Bound inductance [Le] - mH
- Semi-inductance [Ke] - SH
- Shunt resistance [Rss] - Ω

Mechanical Data:
- Force Factor [Bl] - Tm
- Moving mass [Mms] - g
- Compliance [Cms] - mm/N
- Mechanical resistance [Rms] - kg/s
- Admittance [Ams] - mm/N