

SCHOEPS V4 U STUDIO VOCAL MICROPHONE



The V4 U is the studio vocal microphone by SCHOEPS.

It unites the outstanding technical characteristics typical of SCHOEPS with a timeless, classic design.

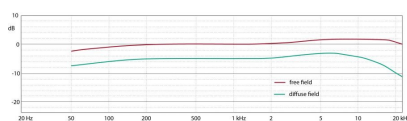


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GALLERY IMAGES



OPIS

- Studio Vocal Microphone
- New small-diaphragm capsule architecture, with bevelled collar for controlling the polar response.
- Warm, clear sonic character with smoothly rolled-off diffuse-field response.
- Capsule head with adjustable tilt angle.
- Optimal on-axis frequency response featuring a mild high-frequency lift.
- Very smooth polar response; carefully-controlled narrowing of the pattern at high frequencies.
- Diffuse-field response parallel to the 0 ° response, with a gentle roll-off at high frequencies.
- Newly designed electronics offer a very high maximum sound pressure level.

The “look” of the V4 U is based on the SCHOEPS CM 51/3 from 1951. But the V4 U is a thoroughly modern studio microphone. Its capsule, circuitry and mechanical construction are the result of extensive new development.

The Capsule

- A 33-mm beveled collar causes the capsule’s directivity to increase steadily and smoothly at high frequencies, as in a large-diaphragm microphone.
- Meanwhile, the superior acoustic qualities of a small-diaphragm capsule like the extraordinarily smooth frequency and polar response are maintained.
- The capsule is elastically suspended internally to reduce solid-borne sound such as handling noise.

The Electronics

- Newly-developed bridge-type balanced output circuit.
- Maximum sound pressure level of 144 dB SPL, corresponding to an output level of 4.8 V.
- Output stage transformerless and free of coupling capacitors.
- The resulting output impedance is low and constant with frequency, while the symmetry is very high.
- Symmetrical, balanced output, the entire audio circuit is symmetrical from the output of

the FET onward.

- High immunity to interference, with gapless shielding and a modern RFI filter at the output; very good electromagnetic compatibility.

V4 U

Directional pattern	Cardioid
Frequency range	50 Hz - 22 kHz
Sensitivity	16 mV/Pa
Equivalent noise level (A-weighted)	15 dB-A
Equivalent noise level (CCIR)	25 dB
Signal-to-noise ratio (A-weighted)	79 dB-A
Maximum sound pressure level at 0.5% THD	144 dB-SPL
Maximum output voltage	4.8 V
Low-cut frequency	40 Hz
Powering voltage	48 V
Current consumption	3.3 mA
Length	194 mm
Weight	302 g
Diameter (cylinder)	34 mm
Width of the capsule head	45 mm
Head swivel degree span	+/- 20 °