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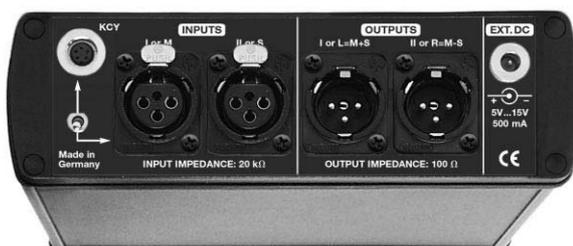
professional tools

## VMS 5 U

Stereo-Mikrofon-Vorverstärker  
Stereo Microphone Preamp



- 48V-Phantomspeisung
- auch für das aktive Y-Kabel von SCHOEPS
- zuschaltbare MS-Matrix
- umschaltbarer Kopfhörerausgang (vor/hinter Matrix)
- Betrieb mit internen Batterien/Akkus oder externem Netzgerät
- durchdachtes Power-M Batterie-Tiefentladungsschutz
- hochwertige, langlebige Schalter und Buchsen (vergoldete Kontakte)
- robustes Alu-Gehäuse (B×H×T: 169×60×163mm)
- kompakte MS-Anordnung im Windschutz erhältlich: fragen Sie nach dem WSR MS
- 48V phantom power
- also for SCHOEPS' active Y cable
- switchable M/S matrix
- switchable phones output (before/after matrix)
- operational with internal batteries or rechargeables or external mains adaptor
- carefully designed power management with protection against deep-draining of batteries
- high-quality, long-life switches and sockets (gold-plated contacts)
- robust aluminium housing (w×h×d: 169×60×163mm)
- compact M/S unit with windscreen available: ask for WSR MS



Rückseite mit umgekehrter Beschriftung; erspart beim Bedienen das seitliche Drehen des Geräts

Rear panel is labeled upside-down, so that it can be read without turning the unit around while in use



The VMS 5 U is a high-quality microphone pre-amplifier with phantom powering, an M/S matrix and a switchable headphone output, all in a robust metal case.

It permits the use of normal microphones such as the SCHOEPS CMC series, as well as the SCHOEPS "active Y-cable" with Colette microphone capsules.

The VMS 5U can be powered by internal or external batteries (possibly rechargeable) or an external AC adapter. It can readily be powered along with other units from a single common supply.

Switches and sockets are of high quality (e.g. gold-plated contacts), thus ensuring long, trouble-free operation.

**Inputs:**

Switchable between two XLR-3 sockets and a special input for the Schoeps KCY "active cable."

XLR inputs are balanced and transformerless; the 48 Volt phantom powering is switchable (for subsequent M/S matrixing).

Input impedance: 20 kOhm

Recommended minimum sensitivity of microphones at XLR inputs: 8 mV/Pa

Maximum input level (20 dB gain setting) for < 0.5%

THD: -2.2 dBV (780 mV<sub>rms</sub>)

Preamplifier gain settings: 4, 10, 20, 30 or 40 dB

Performance specifications of VMS 5 U with Schoeps CMC 64 (cardioid):

Equivalent noise level: 27 dB (CCIR, qps); 17 dB (A-weighted)

Maximum sound pressure level:

at 4 or 10 dB gain: 132 dB, limited by microphone

at 20 dB gain: 130 dB

at 30 dB gain: 120 dB

at 40 dB gain: 109 dB

Level indicators: -20 dB, -3 dB

The "Balance" potentiometer permits compensation for differences in microphone sensitivity.

A polarity inversion switch permits rapid change of channel assignments in M/S recording.

**Outputs:**

The outputs are balanced and transformerless, and are switchable between the amplified microphone signals and the decoded M/S stereo signals.

Output impedance: 100 Ohms

Maximum output level for 0.5% THD: 17 dBV (7 V<sub>rms</sub>)

Recommended load impedance: 2 kOhm or greater

**Headphone output:**

Switchable; either the amplified microphone signals (=left/right for A/B recordings, or mid/side for M/S) or the decoded M/S stereo signals can be monitored.

Headphone impedance: 32 - 2,000 Ohms

Headphone socket: ¼" stereo phone jack

**Filters:**

An infrasonic filter (30 Hz, 18 dB/oct.) is permanently active.

In addition, a low-cut filter (150 Hz, 6 dB/oct.) can be switched on.

**Powering:**

An internal filter/regulator circuit permits a wide range of input voltages.

**Operation with internal batteries (possibly rechargeable):**

Number and type of cells: 6 x AA

Recommended battery type: Alkaline

Recommended rechargeable type: NiMH

A user-replaceable fuse protects against reversing the polarity of the batteries.

Battery life with alkaline cells: ca. 8.5 hours

Battery life with rechargeable batteries: ca. 3 h (700 mAh NiCd); ca. 5.5 h (1300 mAh NiMH)

A voltage indicator displays the battery voltage within the unit. A warning LED will begin to blink if the voltage falls beneath a critical value (time remaining at that point: at least 10 minutes with rechargeable batteries).

The unit will shut itself off automatically to help prevent damage from completely draining the batteries. With rechargeable batteries, this reduces the risk of any individual cells inverting their polarity. The unit can be brought back into operation by turning the "Power" switch off and on again.

**External powering:**

Coaxial socket, 5.5/2.1 mm

Reverse polarity will not damage the unit, though it will not operate.

If external powering is present, the batteries are automatically disconnected (indicated by yellow LED "EXT."). This protects the batteries from being drained or loaded unintentionally.

The battery voltage indicator displays the level of any external powering.

External power supply (not included):

DC (stabilized): 6V, 500 mA - 15 V, 250 mA

The unit can also be operated with an unfiltered voltage from 6 V up to 15 V at the external supply input socket.

AC: 10 - 13 V

External powering with outboard rechargeable battery:

nominal 6 - 12 V

**Parallel operation**

from a single power supply of a VMS 5 U along with one or more other pieces of equipment is generally possible, because of the internal galvanic isolation by the regulator.

The design of the rear panel, which is labeled "upside down," allows the unit to be operated without turning it around while in use.

Robust, black metal case; designed for portable use.

Measurements: 169 mm x 60 mm x 172 mm

(approximately 6-2/3" x 2-1/3" x 6-3/4")

Weight: 1.2 kg (approximately 2 lb. 10 oz.)

An appropriate AC power adapter is available (designation: VMS 5 DC). Other power adapters with 6 - 15 V stabilized DC output at 500 mA can also be used.

These specifications are subject to revision and correction without notice.

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