SEIT 1928 KONDENSATORMIKROFONE FÜR STUDIO - UND MESSTECHNIK

MICROTECH GEFELL

UM 930

STUDIO CONDENSER MICROPHONE WITH SWITCHABLE CHARACTERISTICS

- Large diaphragm dual-capsule
- ○ ⬭ ∩ ⍥ 8
- Extreme dynamic range
- Equivalent noise level 7 dBA
- Transformerless output
- Elastic capsule suspension
- Muting function
- Soundcheck Tool SCT
- Optical functioning indicator
- Surface satin nickel / dark bronze

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The switchable studio condenser microphone UM 930 combines modern large diaphragm capsule technology with the latest in semiconductor circuit topology.

The optimized dual-capsule assembly opens up new applications in the recording technique. Among conventional switching technique there is the possibility of attaching a twin-Version, viz. microphones can be used with two directional pattern at the same time.

APPLICATION

The UM 930 is specifically designed to meet the needs of professional and semi-professional users who demand the highest performance. This microphone is ideally suited for universal miking applications in broadcast and sound studios.
Applications include vocalists, announcers, dialog pickup and as spot microphones for recording guitars, keyboards, percussion, wind and string instruments.

The pick-up pattern is perpendicular to the direction of the microphone axis (side addressed).
The model number and pick-up pattern symbol mark the front of the microphone.

UM 930 SCT with Soundcheck Tool

Available for the UM 930 SCT condenser microphone is an 1kHz level checking test signal for checking a complete sound system following the microphone. The Soundcheck Tool is enabled when the polar pattern switching ring is placed midway between any of the polar pattern symbols for longer than 4 - 5 seconds, and the green LED illuminates. The level testing signal takes the individual sensitivity of the microphone, pattern cardioid, and it is equivalent to a sound level of 74 dB. This is 20 dB lower than the reference level at 1 Pascal, and assists in basic microphone setup during soundcheck. The Soundcheck Tool reduces the need for frequent voice tests during setup in most cases.

MOUNTING

UM 930 shown with its integrated elastic suspension can be swiveled 135 degrees to both sides

UM 930 shown with elastic suspension EA 92

POLAR PATTERNS

The microphone features 5 pickup patterns: omni, wide cardioid, cardioid, hyper cardioid , figure 8.

Maintenance-free reed relays permit switching over the polar pattern

A muting function works when switching over the polar pattern.

When the microphone is ready for operation a green light-emitting diode (LED) inside of protection grid will indicate. Acoustic influences that could result from the housing resonance and/or mechanical vibration are reduced by the robust construction and by a special fixture within the microphone‘s housing that dampens vibrations.

You can replace the black o-rings at the peripheral line of the switching ring with one or more coloured rings. Available are the colours green, red and blue.

Under type designation UM 930 twin a special version of this microphone is available on request; which will be delivered with fix adjusted cardioid pattern and one of five polar patterns. The respective signal of polar pattern can be used simultaneously by a 5-pin XLR-connector.

Thus while recording the user has the possibility to draw a comparison to the reference characteristic cardioid with one microphone. Turning on the UM 930 twin is possible with a 5-pin XLR-connection cable or by an adaption over 2 x XLR 3-pin.

UM 930 with microphone holder MH 80.

DELIVERY

Studio condenser microphone UM 930 with switchable polar patterns in a wooden case, L x B x H 250 x 175 x 110 mm	
satin nickel	Order-No. 211120
dark bronze	Order-No. 211121
Studio condenser microphone UM 930 with switchable polar patterns in a wooden case, L x B x H 250 x 175 x 110 mm **with microphone holder MH 80**	
satin nickel	Order-No. 211122
dark bronze	Order-No. 211123
Studio condenser microphone UM 930 with switchable polar patterns in Suitcase (Al), L x B x H 450 x 350 x 160 mm **with elastic suspension EA 92**	
satin nickel	Order-No. 211128
dark bronze	Order-No. 211129

EXAMPLES FOR DELIVERY

UM 930, satin nickel

UM 930 with MH 80, satin nickel

SPECIAL DESIGN

Studio condenser microphone UM 930, 24 carat gold

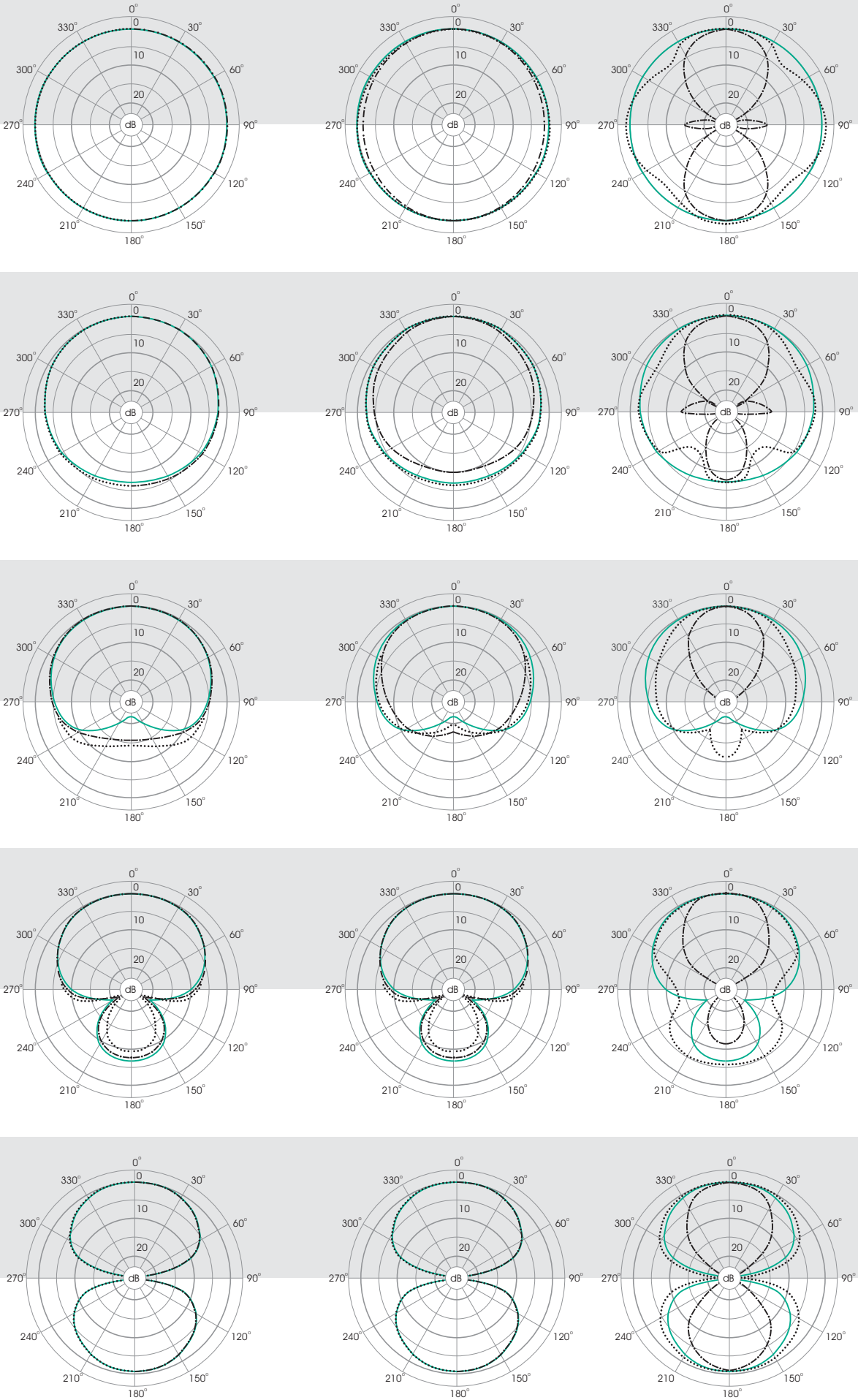
ACCESSORIES, optional

Windscreen, anthracite		W 93	Order-No. 202415
Popscreen, black		PO 70	Order-No. 600018
Elastic suspension, satin nickel		EA 92	Order-No. 202312
Elastic suspension, dark bronze		EA 92	Order-No. 202313
Microphone holder, satin nickel		MH 80	Order-No. 202320
Microphone holder, dark bronze		MH 80	Order-No. 202322
Connection cable, XLR 3-pin		C 70	Order-No. 202212
Connection cable, XLR 5-pin	for UM 930 twin	C 71	Order-No. 202213
Adapter cable, XLR 5-pin to 2 x XLR 3-pin	for UM 930 twin	C 70 A	Order-No. 202214

TECHNICAL SPECIFICATIONS

CE **Certificate**

Polar pattern		omni, wide cardioid, cardioid, hypercardioid, fig.-8
Acoustic operating principle		Pressure gradient transducer
Dual-capsule		large diaphragm
Frequency range		40 ... 18000 Hz
Sensitivity at 1 kHz (cardioid)		20 mV/Pa
Output impedance		100 Ω
Noise level	CCIR 468-4	13 dB
(cardioid)	DIN EN 60 651	7 dB - A
Signal-to-noise ratio	CCIR-weighted	81 dB
(re 1 Pa at 1 kHz)	A-weighted	87 dB
Max. SPL for K ≤ 0,5 %		142 dB
Dynamic range		135 dB
Current consumtion (P 48, DIN 45596, IEC 268-15)		4,5 mA
Output connector UM 930		3-pin XLR connector, goldplated contacts
Output connector UM 930 twin		5-pin XLR connector, goldplated contacts
Weight		930 g
Dimensions (L x Ø)		158 mm x 65 mm
Finish		satin nickel, dark bronze


0°
330°
30°
300°
60°
270°
90°
240°
120°
210°
150°
180°
0
10
20
dB
1 kHz
250 Hz
500 Hz
1 kHz
2 kHz
4 kHz
1 kHz
8 kHz
16 kHz

FREQUENCY RESPONSES