

SEIT 1928

KONDENSATORMIKROFONE
FÜR STUDIO-UND MESSTECHNIK

MICROTECH GEFELL



UM 930



STUDIO CONDENSER MICROPHONE

with switchable polar pattern

Phantom powering P 48 V

- Large diaphragm dual-capsule
- Switchable 
- Exceptional dynamic range
- Equivalent noise level 7 dBA
- Transformerless output
- Elastic capsule suspension
- Muting function
- Soundcheck Tool SCT
- Optical ready indicator
- Colour Code
- Satin nickel / dark bronze finish



UM 930

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The UM 930 switchable pattern studio condenser microphone combines modern large diaphragm capsule technology with the latest in semiconductor circuit topology. The optimized dual-capsule assembly opens up new applications in recording techniques. 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 EA 92 elastic suspension



POLAR PATTERNS

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



Maintenance-free reed relays used to switch between polar patterns.

A muting function works the microphone mutes when switching polar patterns.

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

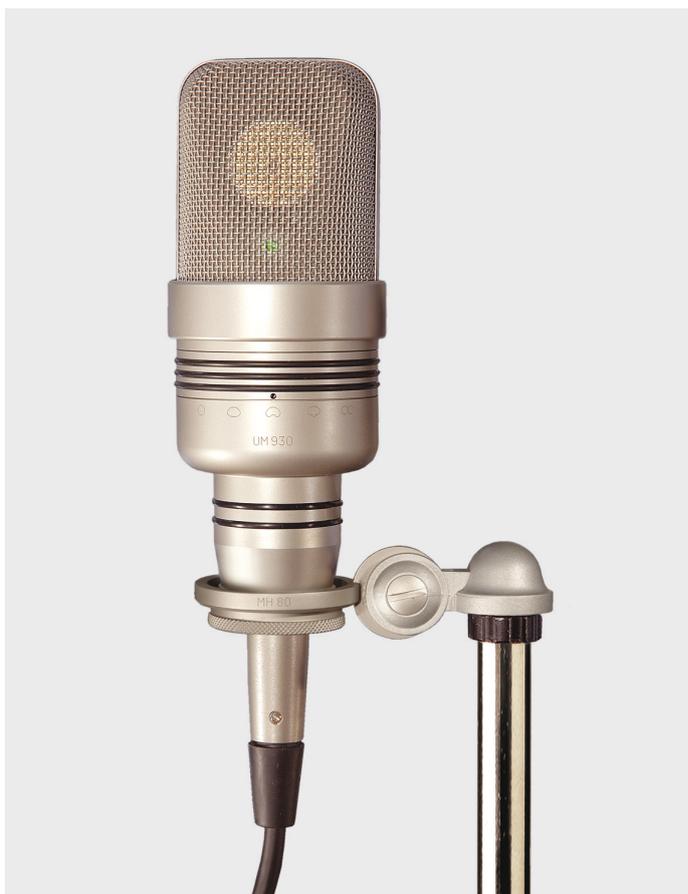
You can replace the black O-rings surrounding the switch ring with green, red and blue coloured rings to help identify microphones.

Under type designation **UM 930 twin** a special version is equipped with one fixed cardioid directivity pattern, and five additional user-selectable directivities. The 5-pin XLR connector enables the separate capsule directivity patterns to be used simultaneously.

This makes it possible for the recording engineer to compare the directional properties against the reference cardioid during live recording as well as in post production.

UM 930

Shown with MH 80 microphone holder



UM 930

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DELIVERY

UM 930 Studio condenser microphone with switchable polar pattern in a wooden case, L x B x H 250 x 175 x 110 mm

satin nickel
dark bronze

Order-No. 211120
Order-No. 211121

UM 930 Studio condenser microphone with switchable polar pattern in a wooden case, L x B x H 250 x 175 x 110 mm **with MH 80 microphone holder**

satin nickel
dark bronze

Order-No. 211122
Order-No. 211123

UM 930 Studio condenser microphone with switchable polar pattern in a suitcase (Al), L x B x H 450 x 350 x 160 mm **with EA 92 elastic suspension**

satin nickel
dark bronze

Order-No. 211128
Order-No. 211129

SUPPLY EXAMPLES

UM 930, satin nickel

UM 930, with MH 80, satin nickel



SPECIAL DESIGN

Dual condenser microphone UM 930 twin, 24 carat gold

ACCESSORIES, optional

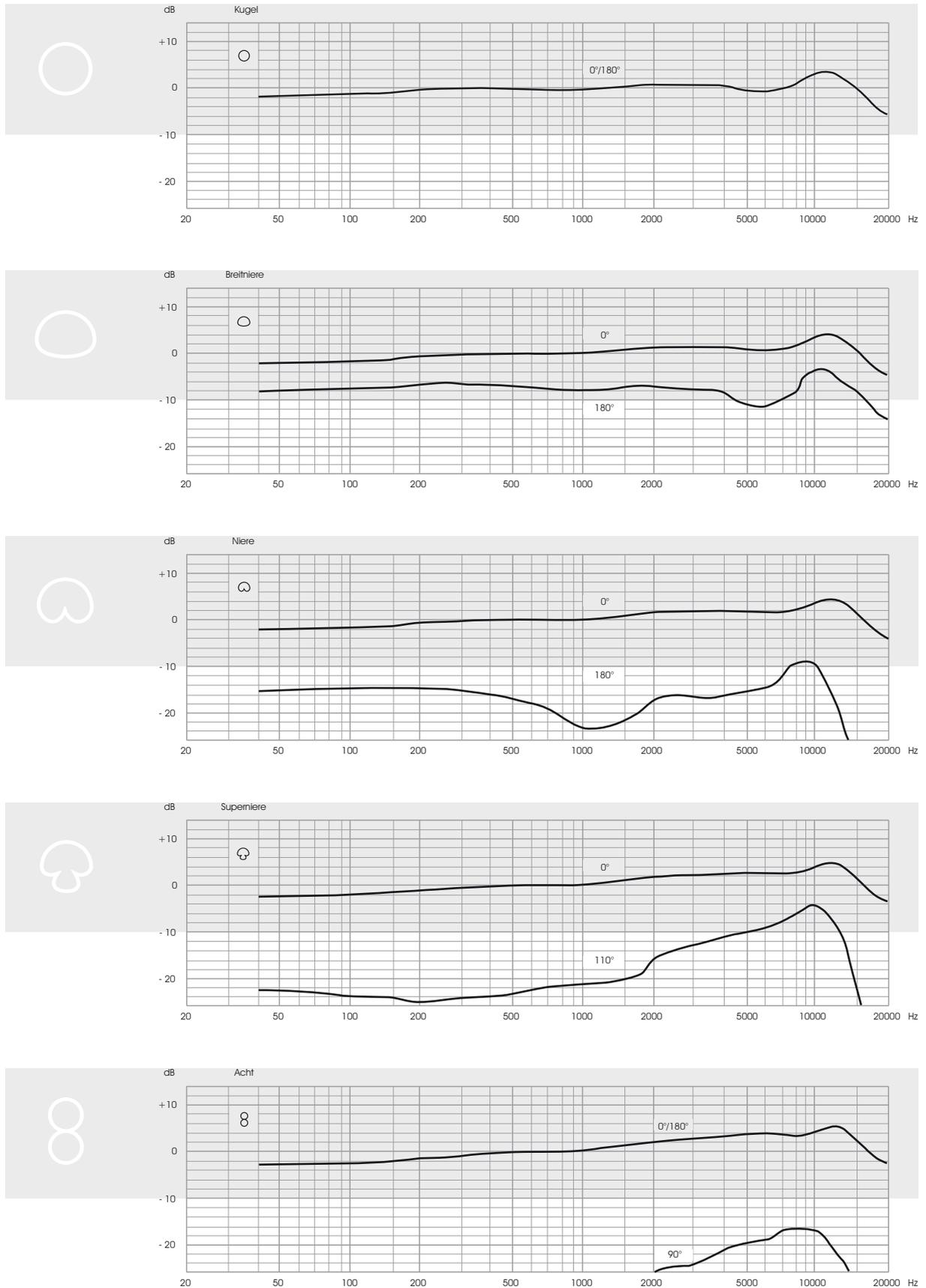
| | | |
|----------------------------------|-------|------------------|
| Windscreen, anthracite | W 93 | Order-No. 202415 |
| Popscreen, black | PO 70 | Order-No. 600018 |
| Elastic suspension, satin nickel | EA 92 | Order-No. 202312 |
| Elastic suspension, dark bronze | EA 92 | Order-No. 202313 |
| 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 |

TECHNICAL SPECIFICATIONS

CE Certificate

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|---|--|
| Polar patterns | 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 |
| (cardioid) | DIN EN 60 651 |
| Signal-to-noise ratio | CCIR-weighted |
| (re 1 Pa at 1 kHz) | A-weighted |
| Max. SPL for $K \leq 0,5$ % THD | 142 dB |
| Dynamic range | 135 dB |
| Current consumption (P 48, DIN 45596, IEC 268-15) | 4,5 mA |
| Output connector UM 930 | 3-pin XLR connector, goldplated contacts |
| Weight | 930 g |
| Dimensions (L x Ø) | 158 mm x 65 mm |
| Finish | satin nickel, dark bronze |

FREQUENCY RESPONSES



POLAR PATTERNS

