

SEIT 1928

KONDENSATORMIKROFONE
FÜR STUDIO-UND MESSTECHNIK

MICROTECH GEFELL










UM 930 twin



DUAL CONDENSER MICROPHONE

with switchable polar pattern

Phantom powering P 48 V

- One microphone records two separate polar patterns simultaneously
- Clear indication of selected characteristics
- Continuous control of variable polar pattern from the mixing console or PC using separate signal outputs
Cardioid front 
Cardioid rear  selected by switch ring
- Large diaphragm **dual-capsule**
- switchable     
- Exceptional dynamic range
- Equivalent noise level 7 dBA
- Transformerless output
- Elastic capsule suspension
- Satin nickel / dark bronze finish



UM 930 twin

The UM 930 twin 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. In addition to conventional switched patterns, two different directional patterns can be selected at the same time.

APPLICATION

The UM 930 twin 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 microphone is side addressed. The front shows the model type and the polar pattern inscription.

MOUNTING

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.

UM 930 twin

Shown with its integrated elastic suspension can be swiveled 135 degrees to both sides

UM 930 twin

Shown with EA 92 elastic suspension



OPERATING MODES switch selectable



UM 930 twin
Shown with MH 80 microphone holder

Simultaneous recording with two polar patterns



The UM 930 twin 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.

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

The UM 930 twin is activated by means of a 5-pin XLR connection cable, or with the 5-pin XLR to 2 x 3-pin XLR adapter cable.



Selected with ring switch:

- omni
- Wide cardioid
- Supercardioid
- ∞ Figure of eight
- ☺ Cardioid rear

Cardioid front ☺

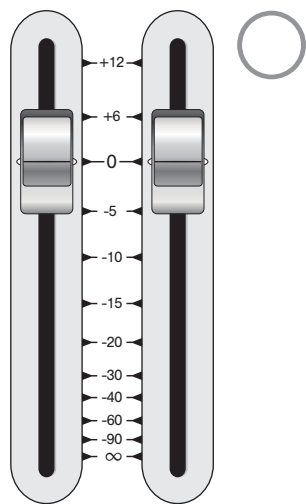


REMOTE CONTROL OF POLAR PATTERN from the mixing console

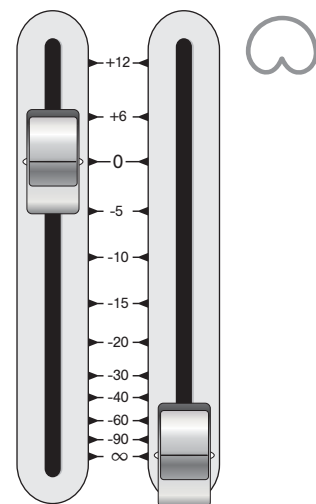
Pattern ring-switch set to

Cardioid front  |  Cardioid rear

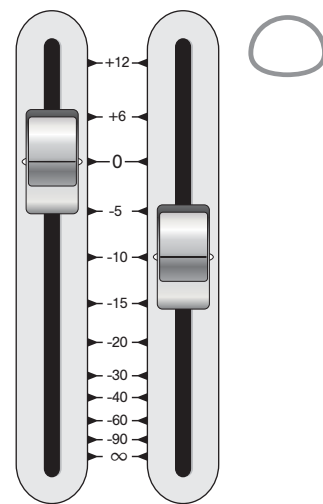
front and rear microphone capsules are connected to separate input channels on the mixing console



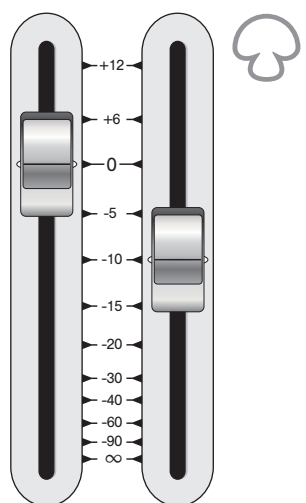
both channel faders set to 0 dB



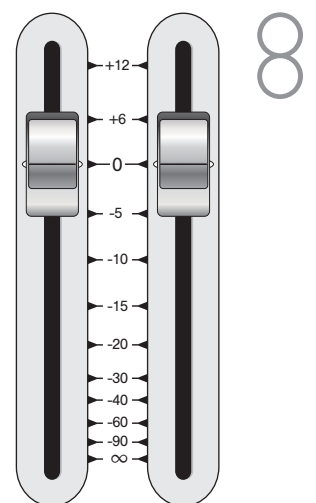
fader for front capsule set to 0 dB
fader for rear capsule set to ∞



fader for front capsule set to 0 dB
fader for rear capsule set to -10 dB
increasing gain to 0 dB progressively changes to omnidirectional
decreasing the gain to ∞ progressively changes to cardioid



phase reversed
fader for front capsule set to 0 dB
fader for rear capsule set to -10 dB with phase reversed



phase reversed
both channel faders set to 0 dB with rear capsule phase reversed

DELIVERY

UM 930 twin dual condenser microphone with reference cardioid characteristic and switchable polar pattern, in a wooden case , L x B x H 250 x 175 x 110 mm

satin nickel	Order-No. 2111120
dark bronze	Order-No. 2111121

UM 930 twin dual condenser microphone with reference cardioid characteristic and 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	Order-No. 2111122
dark bronze	Order-No. 2111123

UM 930 twin dual condenser microphone with reference cardioid characteristic and 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	Order-No. 2111128
dark bronze	Order-No. 2111129

SUPPLY EXAMPLES

UM 930 twin, satin nickel

UM 930 twin, 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 5-pin, 10 m	C 93.1	Order-No. 202215
Adapter cable, XLR 5-pin to 2 x XLR 3-pin, 1 m	C 93.01	Order-No. 202214

TECHNICAL SPECIFICATIONS

CE Certificate

Polar patterns	reference switchable	cardioid front cardioid, fig.-8, hypercardioid, wide cardioid, omni
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 (cardioid)	CCIR 468-4	13 dB
	DIN EN 60 651	7 dB - A
Signal-to-noise ratio (re 1 Pa at 1 kHz)	CCIR-weighted	81 dB
	A-weighted	87 dB
Max. SPL for K ≤ 0,5 % THD		142 dB
Dynamic range		135 dB
Current consumption (P 48, DIN 45596, IEC 268-15)		4,5 mA
Output connector		5-pin XLR connector, goldplated contacts
Weight		930 g
Dimensions (L x Ø)		158 mm x 65 mm
Finish		satın nickel, dark bronze

OTHER CONFIGURATIONS

Cardioid front



Cardioid front Not connected

Cardioid rear

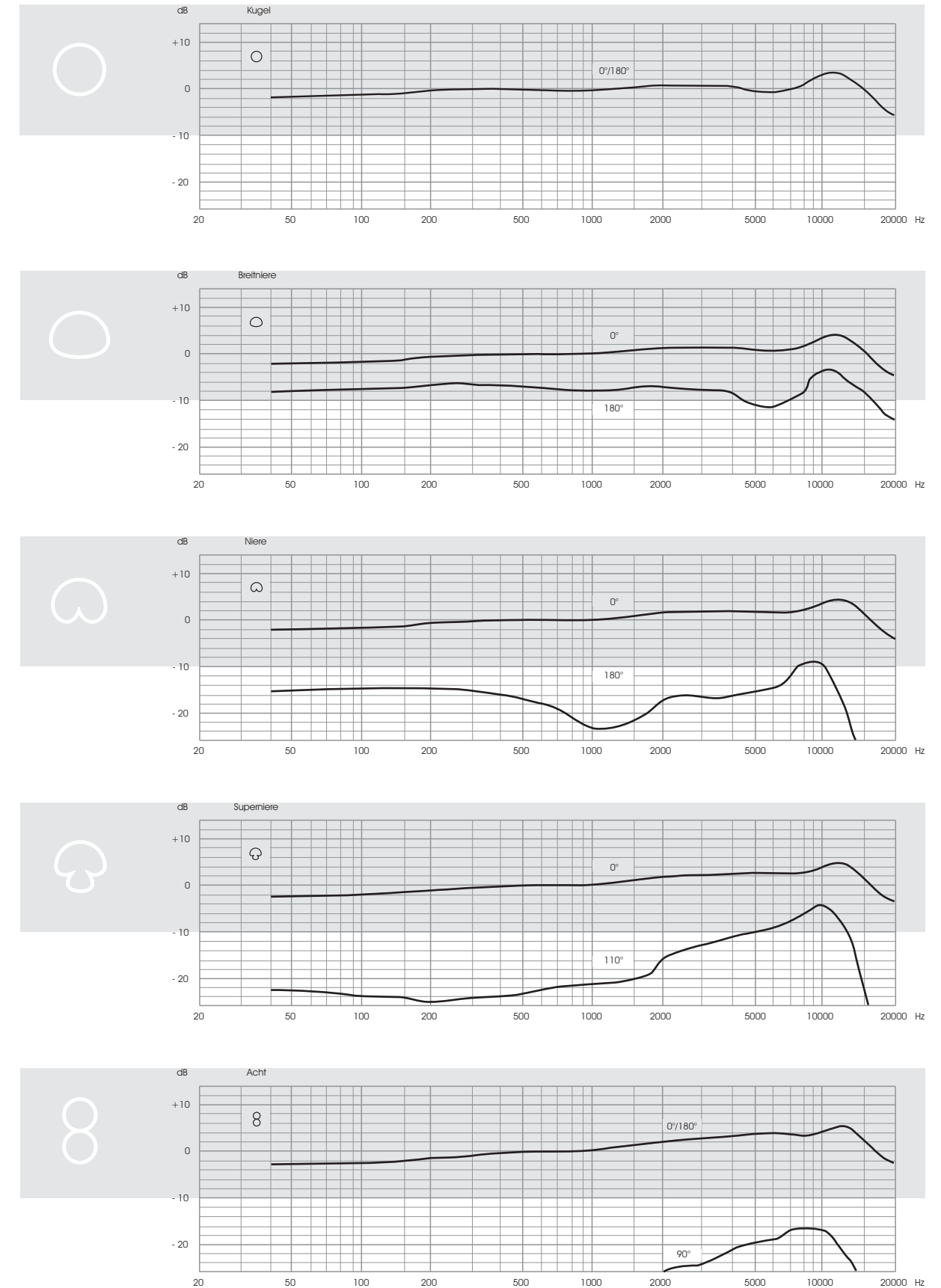


Not connected Cardioid rear
selected by switch ring
selectable phase reverse
and attenuation

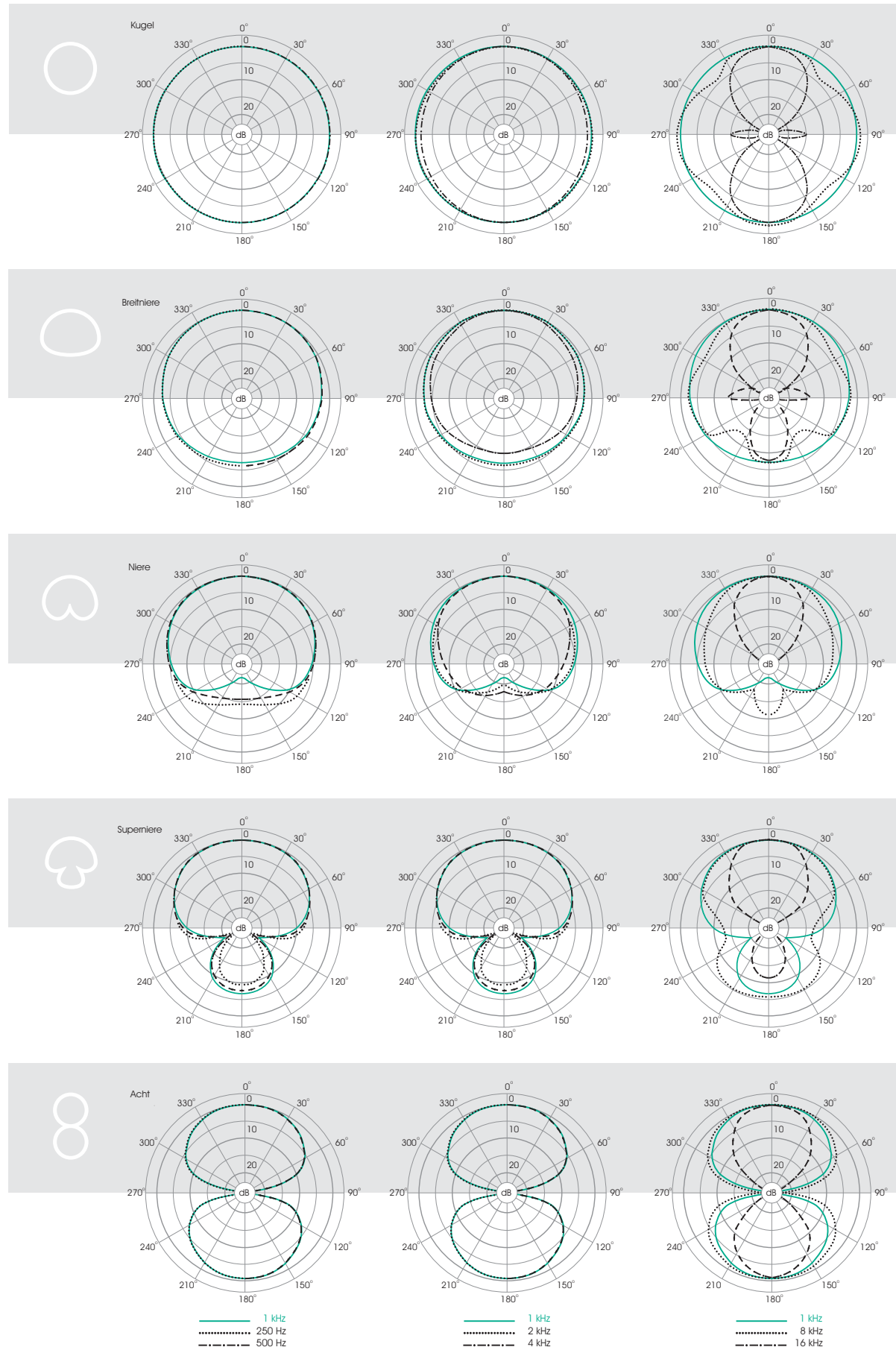
selected by switch ring:

phase change cardioid: 0° 0° 180° 180° 0°
attenuation cardioid: 0 dB -12 dB -10 dB 0 dB 0 dB

FREQUENCY RESPONSES



POLAR PATTERNS



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Änderungen vorbehalten