

S 900

UHF Handheld Transmitter



S 900 M + EM 981 S



S 900 C + CM 930 B

FEATURES

- Handheld transmitter in three versions:
 - S 900 C with charging contacts, plastic housing
 - S 900 P without charging contacts, plastic housing
 - S 900 M without charging contacts, metal housing
- LC display
- ACT function (Automatic Channel Targeting) for automatic frequency setting
- Adjustable input sensitivity
- Integrated antenna

OPTIONAL ACCESSORIES

CM 930 B	Condenser, cardioid, black	Order # 490.539
DM 960 B	Dynamic, hypercardioid, black	Order # 490.490
DM 960 S	Dynamic, hypercardioid, silver	Order # 490.504
DM 969 S	Dynamic, supercardioid, silver	Order # 490.512
EM 981 S	Electret condenser, cardioid, silver	Order # 490.520
NiMH Batt.	1.2 V / 2500 mAh for S 900 C	Order # 903.442
SLG 900	Charger with two charging compartments for S 900 C or TS 900 C	Order # 485.292

APPLICATIONS

The S 900 has been developed for professional use in broadcasting, film and theatre applications and on stage. The modular design allows the use of different microphone heads for various applications.

The S 900 operates in the frequency range 668 - 692 MHz, 774 - 798 MHz, 790 - 814 MHz or 841 - 865 MHz. The LC-Display indicates the selected frequency group/channel. The battery capacity is also displayed when it is decreasing.

Due to the pilot tone system there is no mute switch needed, because the receiver is muted automatically when the transmitter is switched off.

The handheld transmitter is available in three versions. The S 900 C provides charging contacts for an environment-friendly operation with a rechargeable battery pack. The S 900 M features a metal housing and the S 900 P a plastic housing.

S 900

TECHNICAL SPECIFICATIONS S 900

Polar pattern	Hypercardioid (SDM 960, SDM 960 M) Supercardioid (SDM 969) Cardioid (SEM 981, SCM 930 M)
Transducer type	True condenser (SCM 930 M) Dynamic (SDM 960, SDM 960 M, SDM 969) Electret condenser (SEM 981)
Frequency range	668 - 692 MHz 774 - 798 MHz 790 - 814 MHz* 841 - 865 MHz*
Modulation	FM
Nominal deviation	± 40 kHz
Radiated transmitter power	10 mW
Compander system	NE572
Max. SPL	146 dB
AF transmission range (close miking 2 cm) at 80 dB SPL	
SDM 960, SDM 960 M	55 - 18,000 Hz
SDM 969	65 - 16,000 Hz
SEM 981	50 - 18,000 Hz
SCM 930	40 - 20,000 Hz
Rear attenuation	
SDM 960, SDM 960 M	-20 dB at 1 kHz / 120°
SDM 969	-15 dB at 1 kHz / 145°
SEM 981	-15 dB at 1 kHz / 180°
SCM 930	-20 dB at 1 kHz / 180°
Signal-to-noise ratio	> 110 dB
T.H.D.	< 0.5% at 1 kHz
Transmission range	100 m
Power supply	2 x 1.5 V batteries (AA) or rechargeable batteries
Current consumption	approx. 85 mA
Operating time	> 20 hours with alkaline batteries
Dimensions	
Length	
S 900 C	188 mm
S 900 M	210.5 mm
S 900 P	210.5 mm
Shaftø S 900 C / S 900 M / S 900 P	38 mm
Weight with batteries	
S 900 C	169 g
S 900 M	172 g
S 900 P	170 g

VERSIONS

SDM 960 M	UHF handheld transmitter, metal housing, DM 960 microphone capsule, 668 - 692 MHz	Order # 490.091
SDM 960 M	774 - 798 MHz	Order # 490.105
SDM 960 M	790 - 814 MHz*	Order # 490.113
SDM 960 M	841 - 865 MHz*	Order # 490.121
SCM 930 M	UHF handheld transmitter, metal housing, CM 930 microphone capsule, 668 - 692 MHz	Order # 490.148
SCM 930 M	774 - 798 MHz	Order # 490.156
SCM 930 M	790 - 814 MHz*	Order # 490.164
SCM 930 M	841 - 865 MHz*	Order # 490.172
SDM 960	UHF handheld transmitter, plastic housing, DM 960 microphone capsule, 668 - 692 MHz	Order # 490.180
SDM 960	774 - 798 MHz	Order # 490.199
SDM 960	790 - 814 MHz*	Order # 490.202
SDM 960	841 - 865 MHz*	Order # 490.210
SDM 969	UHF handheld transmitter, plastic housing, DM 969 microphone capsule, 668 - 692 MHz	Order # 490.229
SDM 969	774 - 798 MHz	Order # 490.237
SDM 969	790 - 814 MHz*	Order # 490.245
SDM 969	841 - 865 MHz*	Order # 490.253
SDM 969 C	same as SDM 969, but with charging contacts, 668 - 692 MHz	Order # 490.326
SDM 969 C	774 - 798 MHz	Order # 490.334
SDM 969 C	790 - 814 MHz*	Order # 490.342
SDM 969 C	841 - 865 MHz*	Order # 490.350
SEM 981 C	UHF handheld transmitter, plastic housing, EM 981 microphone capsule, with charging contacts, 668 - 692 MHz	Order # 490.369
SEM 981 C	774 - 798 MHz	Order # 490.377
SEM 981 C	790 - 814 MHz*	Order # 490.385
SEM 981 C	841 - 865 MHz*	Order # 490.393
S 900 C	UHF handheld transmitter, plastic housing, black, with charging contacts, 668 - 692 MHz	Order # 490.601
S 900 C	774 - 798 MHz	Order # 490.628
S 900 C	790 - 814 MHz*	Order # 490.636
S 900 C	841 - 865 MHz*	Order # 490.644
S 900 M	UHF handheld transmitter, metal housing, black, 668 - 692 MHz	Order # 490.555
S 900 M	774 - 798 MHz	Order # 490.563
S 900 M	790 - 814 MHz*	Order # 490.571
S 900 M	841 - 865 MHz*	Order # 490.598
S 900 P	UHF handheld transmitter, plastic housing, black, 668 - 692 MHz	Order # 498.661
S 900 P	774 - 798 MHz	Order # 498.688
S 900 P	790 - 814 MHz*	Order # 498.696
S 900 P	841 - 865 MHz*	Order # 498.718

*Not for use in the USA and Canada

S 900

MICROPHONE HEADS



CM 930

- True condenser
- Cardioid
- Superb audio quality

The CM 930 microphone head is suitable for vocals and speech application. Due to its cardioid polar pattern, it features a high gain before feedback and achieves a superb audio quality and good intelligibility of speech.



DM 960 B



DM 960 S

DM 960

- Dynamic
- Hypercardioid
- Extremely high gain before feedback
- Available in silver (DM 960 S) and black (DM 960 B)

The DM 960 microphone head is suitable for close miking of vocals especially pop, soul or jazz. The hypercardioid polar pattern provides maximum gain before feedback. Due to the close miking effect and the bass boost the DM 960 features a powerful and smooth sound with transparent highs.

TECHNICAL SPECIFICATIONS

	CM 930	DM 960
Type	Cardioid	Hypercardioid
Polar pattern	True condenser	Dynamic
Transducer type	40 - 20,000 Hz	90 - 16,000 Hz
Frequency response	180 Ω	280 Ω
Nominal impedance	1 k Ω	1 k Ω
Load impedance	3 mV / Pa	3 mV / Pa
Open circuit voltage	146 dB	–
Max. SPL (w/out pre-attenuation)	–	> 20 dB at 50 Hz
Magnetic field suppression	71 dB	–
Signal-to-noise ratio	16 dB	–
A-weighted equivalent SPL	Dimensions	
Head diameter	48 mm	54 mm
Shaft diameter	38 mm	38 mm
Length	105.5 mm	109.5 mm
Weight	approx. 185 g	approx. 175 g

S 900

MICROPHONE HEADS



DM 969

- Dynamic
- Supercardioid
- Very high gain before feedback

The DM 969 microphone head is suitable for vocals. The frequency response is flat and wide for a true sound reproduction. Due to the supercardioid polar pattern the DM 969 provides a high gain before feedback.



EM 981

- Electret condenser
- Cardioid
- High SPL capability

The EM 981 microphone head can be used for many applications such as solo vocals, conferences or speech. The cardioid polar pattern achieves a high gain before feedback.

TECHNICAL SPECIFICATIONS

	DM 969	EM 981
Type	Dynamic	Electret condenser
Polar pattern	Supercardioid	Cardioid
Transducer type	Dynamic	Electret condenser
Frequency response	95 - 14,000 Hz	50 - 18,000 Hz
Nominal impedance	290 Ω	190 Ω
Load impedance	1 k Ω	1 k Ω
Open circuit voltage	2.5 mV / Pa	3.2 mV / Pa
Max. SPL (w/out pre-attenuation)	–	146 dB
Magnetic field suppression	> 20 dB at 50 Hz	–
Signal-to-noise ratio	–	60 dB
A-weighted equivalent SPL	–	26 dB
Dimensions		
Head diameter	50 mm	48 mm
Shaft diameter	38 mm	38 mm
Length	106.5 mm	105.5 mm
Weight	approx. 125 g	approx. 175 g