S 910

UHF Handheld Transmitter

S 910 M

S 910 C

Features

- Handheld transmitter in two versions:
  S 910 C with charging contacts, built-in rechargeable batteries, plastic housing
  S 910 M without charging contacts, metal housing
- LC display
- ACT function (Automatic Channel Targeting) for automatic frequency setting
- Adjustable input sensitivity
- Integrated antenna

Consumer Alert

Most users do not need a license to operate this wireless microphone system. Nevertheless, operating this microphone system without a license is subject to certain restrictions: the system may not cause harmful interference; it must operate at a low power level (not in excess of 50 milliwatts); and it has no protection from interference received from any other device.
Purchasers should also be aware that FCC is currently evaluating use of wireless microphone systems, and these rules are subject to change.
For more information, call the FCC at 1-888-CALL-FCC (TTY: 1-888-TELL-FCC) or visit the FCC s wireless microphone website at www.fcc.gov/cgb/wirelessmicrophones.

Applications

Designed for use either on tour or in fixed installations, the Opus 910 professional UHF wireless system from beyerdynamic offers the highest levels of reliability, audio and transmission quality.
There are two ergonomically designed handheld transmitters available for use with the Opus 910 wireless system each with different frequency ranges and featuring a 36 MHz UHF bandwidth. In order to maximise the flexibility of the Opus 910 system, both transmitters can be combined with four top quality interchangeable beyerdynamic microphone heads. The system's four microphone gain settings provide a high degree of flexibility in even the most diverse applications.
The S 910 M (metal housing) and the S 910 C (plastic housing) are equipped with an ACT interface to detect the carrier frequency from the receiver and set up the transmitters automatically. Both transmitters also have a noiseless on/off switch and LCD showing channel/group and remaining battery capacity. Two 1.5 V AA alkaline batteries (included) power the S 910 M for over 20 hours operating time. The S 910 C has integrated charging contacts and is delivered with built-in rechargeable batteries (2 x Mignon AA NiMH) which provide an operating time of over 23 hours.

Optional Accessories

CM 930 B	Condenser, cardioid, black	Order # 490.539
DM 960 B	Dynamic, hypercardioid, black	Order # 490.490
DM 969 S	Dynamic, supercardioid, silver	Order # 490.512
EM 981 S	Electret condenser, cardioid, silver	Order # 490.520
Batt. Set	with 2 NiMH batteries, AA 1.2 V / 2000 mAh for S 910 C	Order # 916.099
SLG 900	Charger with two charging compartments for S 910 C or TS 910 C	Order # 485.292

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S 910

Techncial Specifications S 900

Polar pattern	Hypercardioid (S 910 + DM 960) Supercardioid (S 910 + DM 969) Cardioid (S 901 + EM 981, S 910 + CM 930)
Transducer type	True condenser (S 910 + CM 930) Dynamic (S 910 + DM 960, S 910 + DM 969) Electret condenser (S 910 + EM 981)
Frequency range	482 – 518 MHz (US) 518 – 554 MHz (US) 554 – 590 MHz (US) 590 – 626 MHz (US) 626 – 662 MHz (US) 662 – 698 MHz (US)
Modulation	FM
Nominal deviation	± 40 kHz
Radiated transmitter power	10 mW
Compander system	NE572
Max. SPL	146 dB
AF transmission range	
S 910 + DM 960	55 - 18,000 Hz (close miking 2 cm) at 80 dB SPL
S 910 + DM 969	65 - 16,000 Hz (close miking 2 cm) at 80 dB SPL
S 910 + EM 981	50 - 18,000 Hz (close miking 2 cm) at 80 dB SPL
S 910 + CM 930	40 - 20,000 Hz (close miking 2 cm) at 80 dB SPL
Rear attenuation	
S 910 + DM 960	-20 dB at 1 kHz / 120°
S 910 + DM 969	-15 dB at 1 kHz / 145°
S 910 + EM 981	-15 dB at 1 kHz / 180°
S 910 + CM 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
Ambient temperature	-10 - +45 °C
Dimensions	
Length	S 910 C: 188 mm S 910 M: 210.5 mm
Shaftø	S 910 C: 38 mm S 910 M: 38 mm
Weight with batteries	S 910 C: 169 g S 910 M: 172 g

Versions

S 910 M	UHF handheld transmitter, metal housing, black, 482 – 518 MHz (US)	Order # 705.233
	same as above, but 518 – 554 MHz (US)	Order # 705.241
	same as above, but 554 – 590 MHz (US)	Order # 705.268
	same as above, but 590 – 626 MHz (US)	Order # 705.276
	same as above, but 626 – 662 MHz (US)	Order # 705.284
	same as above, but 662 – 698 MHz (US)	Order # 705.292
S 910 C	UHF handheld transmitter, plastic housing, black, with charging contacts, 482 – 518 MHz (US)	Order # 705.381
	same as above, but 518 – 554 MHz (US)	Order # 705.403
	same as above, but 554 – 590 MHz (US)	Order # 705.411
	same as above, but 590 – 626 MHz (US)	Order # 705.438
	same as above, but 626 – 662 MHz (US)	Order # 705.446
	same as above, but 662 – 698 MHz (US)	Order # 705.454

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S 910

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

- 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

Type	**CM 930**	**DM 960**
Polar pattern	Cardioid	Hypercardioid
Transducer type	True condenser	Dynamic
Frequency response	40 - 20,000 Hz	90 - 16,000 Hz
Nominal impedance	180 Ω	280 Ω
Load impedance	1 kΩ	1 kΩ
Open circuit voltage	3 mV / Pa	3 mV / Pa
Max. SPL (w/out pre-attenuation)	146 dB	–
Magnetic field suppression	–	> 20 dB at 50 Hz
Signal-to-noise ratio	71 dB	–
A-weighted equivalent SPL	16 dB	–
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

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S 910

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		
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 kΩ	1 kΩ
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

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