

Every system of the evolution wireless 500 Series is available with either the EM 500 mains receiver or the EK 500 pocket receiver. The EM 500 true diversity receiver is at the heart of the 500 Series systems. The EK 500 pocket receiver is the ideal choice for monitoring or camcorder use. The SKM 500 hand-held transmitter, available with a choice of three different microphone heads, features a noiseless mute switch and a special “lock mode” function to prevent operating errors. The SKP 500 plug-on transmitter converts any wired microphone into a radiomicrophone and, with its built-in 48 V phantom power, can even power condenser microphones. The SK 500 pocket transmitter is the perfect companion for the ME 2 or ME 4 clip-on microphones, the ME 3 headmic or guitar cables. Transmitters and receivers of the 500 Series feature 16 frequency presets for direct channel selection. The user-friendly display on the EM 500 mains receiver allows you to quickly read off the channel, the frequency used or the name of the performer. It also indicates the transmitter battery status. The EM 500 also features a special “soundcheck” mode which makes it possible for a single person to conduct quick on-stage RF and AF level checks: Simply move around the stage area with the microphone – the receiver will store and display the lowest RF and the highest AF level. Both 500 Series receivers feature an adjustable headphone output for a quick and easy signal check.





Accessories





Carrying case for complete systems	CC 1	Cat. No. 04797
Microphone clamp for SKM	MZQ 1	Cat. No. 76670
Windshield for SKM	MZW 1	Cat. No. 04839
Line cable for SK 500	CL 2	Cat. No. 04840
Guitar cable for SK 500	CI 1	Cat. No. 79901
Antenna booster		
518–550 MHz	AB 1-A	Cat. No. 04790
630–662 MHz	AB 1-B	Cat. No. 04906
740–772 MHz	AB 1-C	Cat. No. 04907
790–822 MHz	AB 1-D	Cat. No. 04908
838–870 MHz	AB 1-E	Cat. No. 04909
Antenna splitter	ASP 1	Cat. No. 04791
Antenna mount	AM 1	Cat. No. 04793
19" rack adaptor	GA 1	Cat. No. 04792





System Overview ew 500




Every system is available with either the EM 500 mains receiver or the EK 500* pocket receiver

(* Systems with pocket receiver are designated with the letter “-p” in their model number)





+ SKM 500 hand-held transmitter	Set ew 535	 
+ MD 835 dynamic microphone module, cardioid	Set ew 535-p	 





+ SKM 500 hand-held transmitter	Set ew 545	 
+ MD 845 dynamic microphone module, super-cardioid	Set ew 545-p	 

+ SKM 500 hand-held transmitter	Set ew 565	 
+ ME 865 condenser microphone module, super-cardioid	Set ew 565-p	 

+ SKP 500 plug-on transmitter for wired microphones	Set ew 501	 
	Set ew 501-p	 

+ SK 500 pocket transmitter	Set ew 512	 
+ ME 2 clip-on microphone, omni-directional	Set ew 512-p	 

+ SK 500 pocket transmitter	Set ew 522	 
+ ME 4 clip-on microphone, cardioid	Set ew 522-p	 

+ SK 500 pocket transmitter	Set ew 552	 
+ ME 3 headmic, super-cardioid	Set ew 152-p	 

+ SK 500 pocket transmitter	Set ew 572	 
+ CI 1 guitar cable	Set ew 572-p	 

For the complete range of accessories available, please refer to the chapter “Accessories”, page 193 f.

System

Technical Data	System – ew 500
Modulation	wideband FM
Frequency ranges	A: 518–550, B: 630–662, C: 740–772, D: 790–822, E: 838–870 MHz
Tunable frequencies	1,280
Frequency presets	16
Switching bandwidth	32 MHz
Peak deviation	± 48 kHz
Compander system	HDX
AF frequency response	60–18,000 Hz
Signal-to-noise ratio	> 110 dB (A)
THD (1 kHz)	< 0.9 %
Dimensions system case	380 x 370 x 70 mm
Weight system case	approx. 3 kg
In compliance with	ETS 300422, ETS 300445, CE, FCC

Receivers

Technical Data	EM 500	EK 500
Receiver type	mains receiver	pocket receiver
Receiver principle	true diversity	non-diversity
Antenna inputs	2 BNC sockets, 50 Ω	M3
AF outputs	1/4" (6.3 mm) jack socket, XLR-3F	3.5 mm jack socket
Max. output level	balanced: + 10 dBu unbalanced: + 4 dBu	balanced: + 10 dBu
Headphone output	1/4" (6.3 mm) jack socket, stereo	3.5 mm jack socket, (> 100 mW at 32 Ω)
Level adjustment	40 dB	40 dB
Power supply	10.5–16 V DC via plug-in mains unit	9 V PP3 alkaline battery (IEC 6 LR 61)
Operating time	–	> 4–6 h
Dimensions	212 x 145 x 38 mm	110 x 65 x 22 mm
Weight	approx. 1100 g	approx. 255 g

Transmitters

Technical Data	SKM 500	SK 500	SKP 500
Transmitter type	hand-held transmitter	pocket transmitter	plug-on transmitter
RF output power	typ. 30 mW	typ. 30 mW	typ. 30 mW
Power supply	9 V PP3 alkaline battery (IEC 6 LR 61)	9 V PP3 alkaline battery (IEC 6 LR 61)	9 V PP3 alkaline battery (IEC 6 LR 61)
Operating time	> 8 h	> 8 h	> 8 h (with P 48 > 5 h)
Max. input voltage	–	mic 1.8 V _{rms} line 2.4 V _{rms}	2.9 V _{rms}
Phantom powering	–	–	yes, 48 V
Dimensions	Ø 50 mm, l = 225 mm	110 x 65 x 22 mm	105 x 43 x 43 mm
Weight	approx. 450 g	approx. 255 g	approx. 195 g

Microphones for SK 500 pocket transmitter

Technical Data	ME 2	ME 4	ME 3 headmic
Transducer	electret condenser	electret condenser	electret condenser
Sensitivity	20 mV/Pa	40 mV/Pa	1.6 mV/Pa
Max. SPL	130 dB	120 dB	150 dB
Pick-up pattern	omni	cardioid	super-cardioid

Microphone heads for SKM 500 hand-held transmitter

Technical Data	MD 835	MD 845	ME 865
Transducer	dynamic	dynamic	electret condenser
Sensitivity	1.5 mV/Pa	1 mV/Pa	3 mV/Pa
Max. SPL	150 dB	154 dB	144 dB
Pick-up pattern	cardioid	super-cardioid	super-cardioid

Passive **antenna splitter** 2 x 1 : 4. The ASP 1 allows a single antenna unit to feed up to four EM 100, EM 300 or EM 500 receivers simultaneously. Incorporates DC distribution for distributing the DC supply voltage to up to four receivers.

(NB: requires NT 1 and two AB 1).
Cat. No.: 04789



ASP 1

DC power adaptor, for external 12 V DC-powering (instead of 9 V PP3 battery) of SK/EK 100, SK/EK 500 and SK 300.

Cat. No.: 04796



DC 1

UHF antenna booster, 10 dB gain (powered via ASP 1/NT 1).

- AB 1-A: 518–550 MHz Cat. No.: 04790
- AB 1-B: 630–662 MHz Cat. No.: 04906
- AB 1-C: 740–772 MHz Cat. No.: 04907
- AB 1-D: 790–822 MHz Cat. No.: 04908
- AB 1-E: 838–870 MHz Cat. No.: 04909



AB 1

Microphone head for SKM 100, SKM 300 and SKM 500, dynamic, cardioid.

Cat. No.: 77982



MD 835

Microphone head for SKM 100, SKM 300 and SKM 500, dynamic, super-cardioid.

Cat. No.: 77983



MD 845

Microphone head for SKM 100, SKM 300 and SKM 500, condenser, super-cardioid.

Cat. No.: 77984



ME 865

Active **antenna combiner** for combining the transmission signals of up to four SR 300 IEM transmitters onto a single antenna. Incorporates DC distribution for distributing the DC supply voltage to up to four transmitters (with NT 3 power supply).

Cat. No.: 04791



AC 1

19" rack adaptor for mounting two EM 100, EM 300, EM 500, SR 300 IEM or one EM/SR with AM 1 antenna mount in a 19" rack.

Cat. No.: 04792



GA 1

Microphone clamp for SKM 100, SKM 300 and SKM 500.

Cat. No.: 76670



MZQ 1

Antennenmount. Permits the connection of EM 100, EM 300, EM 500 and SR 300 IEM antennæ to the front of the rack.

Cat. No.: 04793



AM 1

Wind- and popshield for SKM 100, SKM 300 and SKM 500.

Cat. No.: 04839



MZW 1

Typoplus:
Bitte Foto
einsetzen

Plug-in mains unit for the
ASP 1 antenna splitter.
NT 1: 04786
NT 1-UK: 04787
NT 1-120: 04788
Output voltage: 12 V DC
Output current: 1.5 A

NT 1



Guitar cable for SK 100, SK 300 and SK 500.
Connector: 1/4" (6.3mm) jack plug.
Cat. No.: 79901

CI 1



NT 2

Plug-in mains unit for
EM 100, EM 300, EM 500
and SR 300 IEM.
NT 2: 77687
NT 2-120: 77688
NT 2-UK: 77689
Output voltage: 12 V DC
Output current: 0.25 A

Typoplus:
Bitte Foto
einsetzen

Line cable for SK 100, SK 300 and SK 500.
Connector: XLR-3, female.
Cat. No.: 04840

CL 2

Typoplus:
Bitte Foto
einsetzen

NT 3

Plug-in mains unit for the
AC 1 antenna combiner.
NT 3: 04863
NT 3-UK: 04864
NT 3-120: 04865
Output voltage: 12V DC
Output current: 2.5 A



CL 1

Line cable for
EK 100 and EK 500.
Connector: 3.5 mm right-
angled jack plug.
Cat. No.: 81197



A 17-1
A 17-2

Receiving antenna
for EK 100 and
EK 500. For use with
cameras.

Frequency ranges:
A 17-1: 518-662 MHz
A 17-2: 740-870 MHz
Cat. No.:
A 17-1: 77935
A 17-2: 77934

Clip-on microphone
for SK 100, SK 300 and
SK 500, condenser,
omni-directional.
Cat. No.: 77874



ME 2

Clip-on microphone
for SK 100, SK 300 and
SK 500, condenser,
cardioid.
Cat. No.: 77876



ME 4

Headmic
for SK 100, SK 300 and
SK 500, condenser,
super-cardioid.
Cat. No.: 77897



ME 3



IE 1
IES 1

**IE 1 stereo in-ear
headphones** for
EK 300 IEM and EK 500.
IES 1 ear-moulds for
IE 1 in-ear headphones.
Cat. No.: 77888 (IE 1)
78156 (IES 1)



CC 1

Hard-shell carrying case for
complete systems.
Cat. No.: 04797