

ew 100 Sets

ew 112 G3 Presentation Set
ew 122 G3 Presentation Set
ew 152 G3 Headset
ew 172 G3 Instrument Set
ew 135/145/165 G3 Vocal Sets

FEATURES

- Sturdy metal housing (transmitter and receiver)
- 42 MHz bandwidth: 1,680 tunable UHF frequencies for interference-free reception
- Enhanced frequency bank system with up to 12 compatible frequencies
- High-quality true diversity reception
- Automatic frequency scan feature searches for available frequencies
- Pilot tone squelch for eliminating RF interference when transmitter is turned off
- Enhanced AF frequency range
- Increased range for audio sensitivity
- Wireless synchronization of transmitters via infrared interface
- Illuminated graphic display (transmitter and receiver)
- Auto-Lock function avoids accidental changing of settings
- HDX compander for crystal-clear sound
- Transmitter feature battery indication in 4 steps, also shown on receiver display
- Programmable Mute function
- Integrated Equalizer and Soundcheck mode
- Contacts for recharging BA 2015 accupack directly in the transmitter
- Wide range of accessories adapts the system to any requirement

The ew 112 G3 is a wireless microphone set, consisting of a True Diversity receiver, a bodypack transmitter with ME 2 clip-on omni-directional microphone plus accessories. It is versatile for every style of presentations.

A wireless link from receiver to the transmitter allows synchronization of frequencies for easy setup. Backlit graphic displays make them easy to read under all lighting conditions.



The ew 122 G3 is a wireless microphone set. The ew 122 G3 consists of the same components as ew 112 G3 but with ME 4 clip-on cardioid microphone.

The compact clip-on microphone rejects noises coming from the side which means less risk of feedback.



The ew 152 G3 is a wireless microphone set. The ew 152 G3 consists of the same components as ew 112 G3 but with ME 3 headworn cardioid microphone.

The included condenser headworn microphone is easy to wear, has great pop protection and produces powerful sound.



ew 100 Sets

FEATURES

ew 135 G3/ew 145 G3/

ew 165 G3 Vocal Sets

See above mentioned list of features plus

- Handheld transmitter with easy-exchangeable microphone heads from evolution series

The ew 172 G3 is a wireless instrument set, consisting of a True Diversity receiver, a bodypack transmitter with CI 1 jack cable plus accessories. It is versatile for picking up instruments.

The system features a virtual cable emulator to get sound response just like a cable, a built-in guitar tuner and an EQ. The frequency response starts at 25 Hz for natural bass reproduction.



The ew 135 G3 is a wireless microphone set, consisting of a True Diversity receiver, a handheld transmitter with e 835 microphone head plus accessories. It is versatile for every style of music and presentations. A wireless link from receiver to the transmitter allows synchronization of frequencies for easy setup. Backlit graphic displays make them easy to read under all lighting conditions.

The ew 145 G3 consists of the same components as ew 135 G3 but with an e 845 microphone head.

The ew 165 G3 consists of the same components as ew 135 G3 but with an e 865 microphone head.



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ARCHITECT'S SPECIFICATIONS

ew 112 G3 Presentation Set

Complete plug & play wireless microphone set with clip-on microphone (permanent polarized, omni-directional) for multi-purpose application. The devices shall have metal housings for rugged use. 42 MHz bandwidth with 1,680 tunable frequencies. 20 banks with up to 12 compatible frequencies, 1 bank for individual selectable frequencies. Scan function and wireless synchronization to the transmitter for easy setup. HDX compander delivers high-quality sound performance. The transmitter shall have a sensitivity range of 48 dB. The receiver offers a maximum output level of +18 dBu (+6 dB gain). True Diversity and pilot tone squelch for interference-free reception.

The transmitter shall have a programmable Mute switch (RF on/off, AF on/off, disabled)

Charging contacts on transmitter for recharging BA 2015 accu pack directly in the transmitter shall be available. 3-step battery + Low-Battery indication on transmitter and receiver shall give reliable information on operation time. Menu operation, auto-lock function and illuminated graphic displays on transmitter and receiver for user-friendly operation.

A RF Mute function on transmitter and receiver allows offline settings. An equalizer and soundcheck mode is integrated in the receiver. A wide range of clip-on and headworn microphones and accessories shall be available for the system. The wireless microphone system shall feature a true-diversity receiver with 42 MHz of available tuning bandwidth with a total of 1,680 frequencies accessible in 25 kHz steps. The wireless microphone receiver must feature one balanced XLR output with a max. output of +18 dBu, and one unbalanced 1/4" output with a max. output of +12 dBu. The wireless microphone receiver must feature two BNC antenna inputs, one for each receiver module in the true diversity system.

The wireless microphone receiver must feature an automatic frequency scanning function that utilizes twenty (20) banks of pre-coordinated frequencies that are free of intermodulation interference. The wireless microphone receiver must also feature a user bank in order to store user defined frequencies. The wireless microphone transmitter must operate on two 1.5 V AA battery cells. The wireless microphone transmitter must have access to 1,680 frequencies tuned in 25 kHz steps across a defined 42 MHz bandwidth. The wireless microphone transmitter must feature a backlit display that displays frequency information, AF level, battery level. The wireless microphone transmitter must transmit a pilot-tone squelch. The wireless microphone transmitter must have a specified RF output power of 30 mW. The wireless microphone receiver must accept 12 V DC power via BNC antenna inputs.

ew 122 G3 Presentation Set

Complete plug & play wireless microphone set with clip-on microphone (condenser, cardioid) from Sennheiser evolution series for multi-purpose application. Further discription see paragraph ew 112 G3.

ew 152 G3 Head Set

Complete plug & play wireless microphone set with headworn microphone (permanent polarized, cardioid) for hands-free application. Further discription see paragraph ew 112 G3.

ew 172 G3 Head Set

Complete plug & play wireless instrument set from Sennheiser evolution series for multi-purpose application. Further discription see paragraph ew 112 G3.

ew 135 G3 Vocal Set

Complete plug & play wireless microphone set with easy-exchangeable e 835 microphone head (dynamic, cardioid) from Sennheiser evolution series for multi-purpose application. Further discription see paragraph ew 112 G3.

ew 145 G3 Vocal Set

Complete plug & play wireless microphone set with easy-exchangeable e 845 microphone head (dynamic, super-cardioid) from Sennheiser evolution series for multi-purpose application. Further discription see paragraph ew 112 G3.

ew 165 G3 Vocal Set

Complete plug & play wireless microphone set with easy-exchangeable e 865 microphone head (electret-condenser, super-cardioid) from Sennheiser evolution series for multi-purpose application. Further discription see paragraph ew 112 G3.



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TECHNICAL DATA

SYSTEM

RF frequency range	516...865 MHz 1,785....1,800 MHz
Transmission/receiving frequencies.....	512....1,865 MHz: 1,680 1,785....1,800 MHz: 1,500
Presets.....	12
Switching bandwidth.....	512....1,865 MHz: 42 MHz 1,785....1,800 MHz: 15 MHz
Comander	HDX
Frequency response	25...18,000 Hz
Signal-to-noise ratio	> 110 dB(A)
THD, total harmonic distortion	< 0,9 %

RECEIVERS

True diversity

Antenna connector.....	2 x BNC, 50 Ω
Audio output level (balanced).....	XLR: +18 dBu max
Audio output level (unbalanced)	Jack: +12 dBu max
Dimensions	202 x 212 x 43 mm
Weight.....	~ 900g

TRANSMITTER

RF output power	typ. 30 mW battery AA (Mignon)
Power supply.....	2 x AA batteries
Operating time	typ. 8h
Input voltage range mic	1.8 V eff
Input voltage range line	3 V eff
Dimensions	82 x 64 x 24 mm
Weight.....	~ 160g

Continued on page 5

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TECHNICAL DATA

Microphones (SK 100)

	ME 2	ME 3-ew	ME 4
Microphone type	condenser	condenser	condenser
Sensitivity	20 mV/Pa	1.6 mV/Pa	40 mV/Pa
Pick-up pattern.....	omni-directional	cardioid	cardioid
Max. SPL	130 dB SPL	150 dB SPL	120 dB SPL

Microphone heads (SKM 100)

	MMD 835-1	MMD 845-1	MMK 865-1
Radio microphone type	dynamic	dynamic	condenser
Sensitivity	2.1 mV/Pa	1.6 mV/Pa	1.6 mV/Pa
Pick-up pattern.....	cardioid	super-cardioid	cardioid/super-cardioid, switchable
Max. SPL	154 dB SPL	154 dB SPL	152 dB SPL
Frequency response	80.....18,000 Hz	80.....18,000 Hz	80.....18,000 Hz

DELIVERY INCLUDES for ew 112 / ew 122 / ew 152 / ew 172 G3

- 1 EM 100 G3 rack-mount receiver
- 1 SK 100 G3 bodypack transmitter
- 1 ME 2 clip-on microphone (omni-directional) (ew 112) or
- 1 ME 4 clip-on microphone (cardioide) (ew 122) or
- 1 ME 3-ew headset microphone (cardioid) (ew 152) or
- 1 CI instrument cable (ew 172)
- 1 NT 2 power supply unit
- 2 Antennas
- 2 Stacking elements
- 2 AA batteries
- 1 Instruction Manual

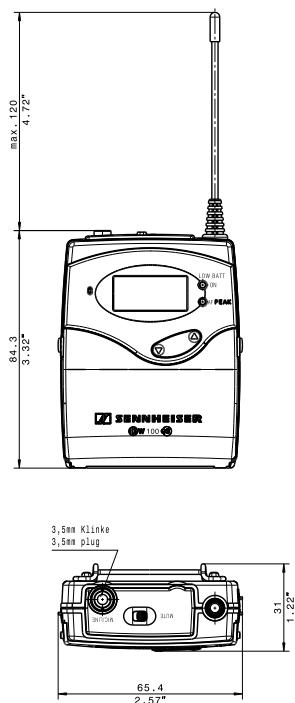
DELIVERY INCLUDES for ew 135 / ew 145 / ew 165 G3

- 1 SKM 100-835 G3 handheld transmitter
with cardioid dynamic head or
- 1 SKM 100-845 G3 handheld transmitter
with super-cardioid dynamic head or
- 1 SKM 100-865 G3 handheld transmitter
with super-cardioid condenser head
- 1 EM 100 G3 rack receiver
- 1 MZQ 1 microphone clip
- 1 NT 2 power supply unit
- 2 Antennas
- 2 Stacking elements
- 2 AA batteries
- 1 Instruction Manual

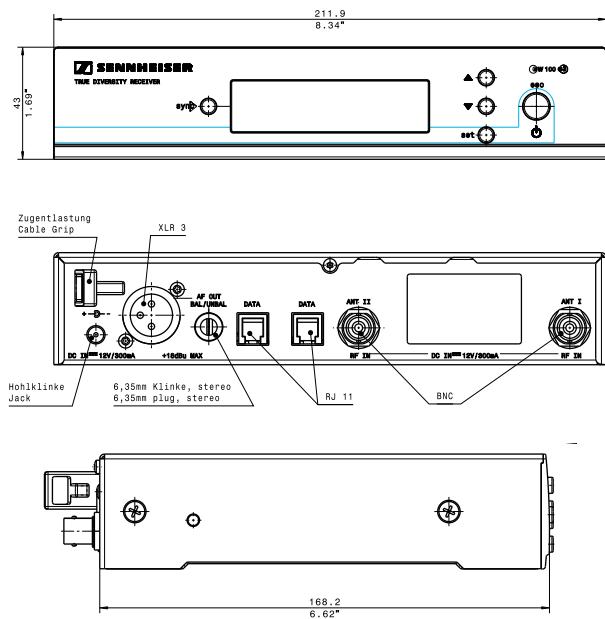
ew 100 Sets

DIMENSIONS

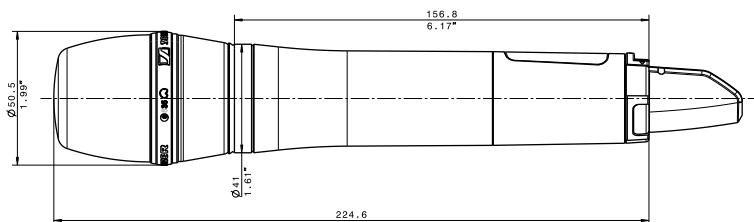
SK 100



EM 100 G3



SKM 100



CONNECTIVITY

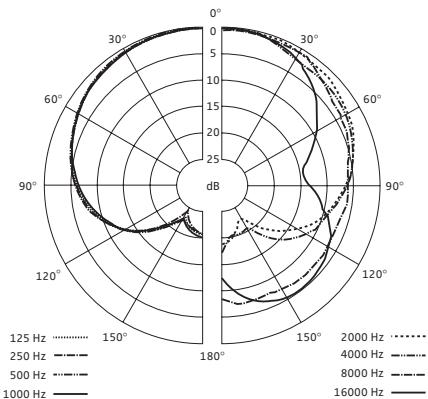


 SENNHEISER

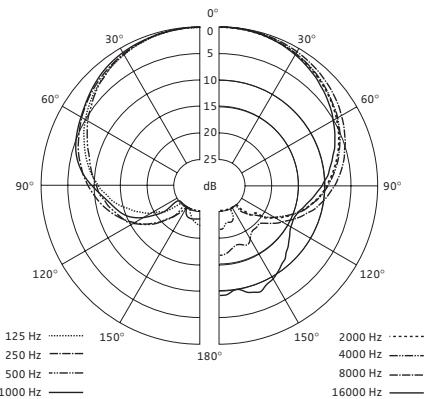
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POLAR PATTERN

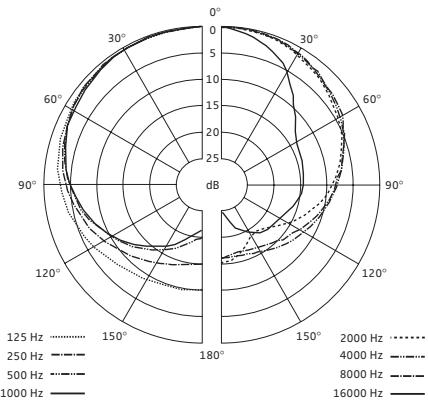
ME 3-ew



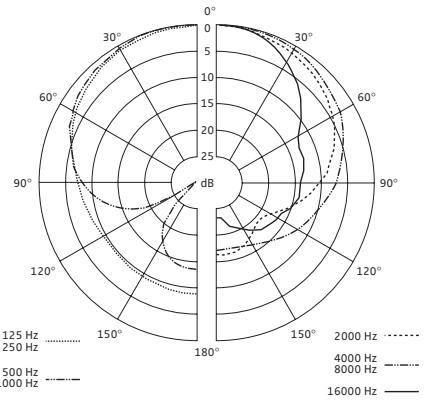
ME 4-ew



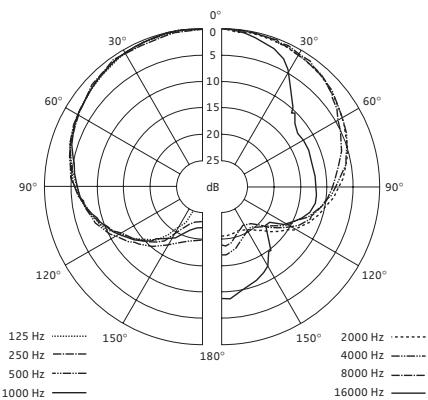
MMD 835-1



MMD 845-1



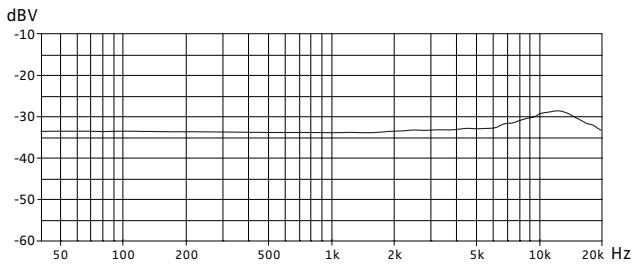
MME 865-1



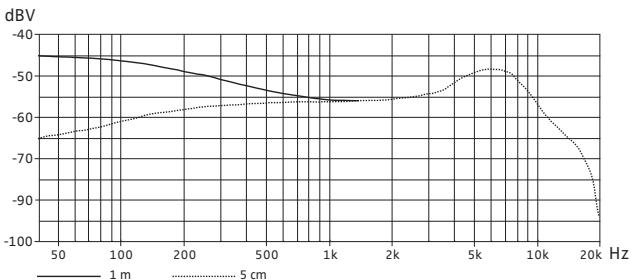
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FREQUENCY RESPONSE

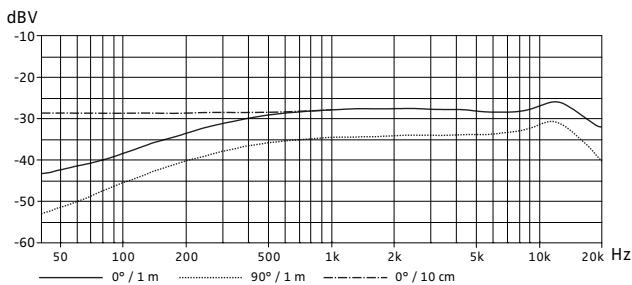
ME 2



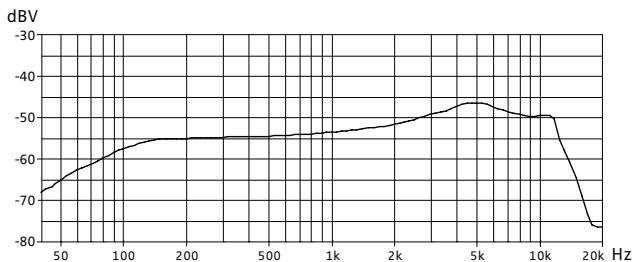
ME 3-ew



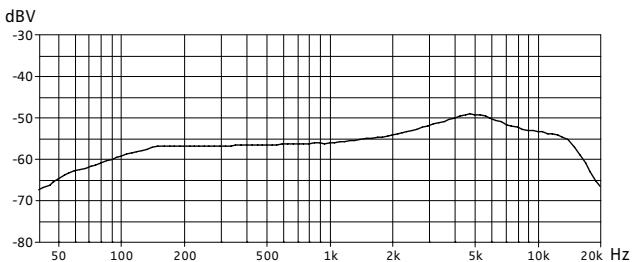
ME 4-ew



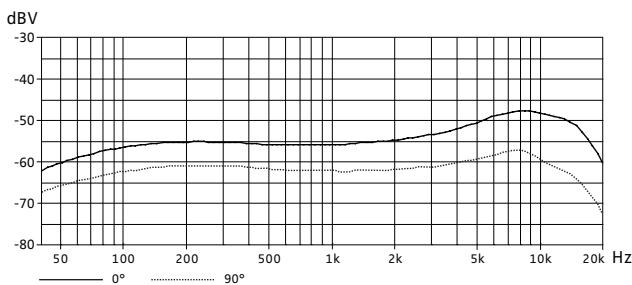
MMD 835-1



MMD 845-1



MME 865-1



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PRODUCT VARIANTS

ew 112 G3 Presentation Set

		Cat. No.
ew 112 G3-A-EU	516...558 MHz	503100
ew 112 G3-A-US	516...558 MHz	503169
ew 112 G3-A-UK	516...558 MHz	503170
ew 112 G3-G-EU	566...608 MHz	503171
ew 112 G3-G-US	566...608 MHz	503172
ew 112 G3-G-UK	566...608 MHz	503173
ew 112 G3-B-EU	626...668 MHz	503174
ew 112 G3-B-US	626...668 MHz	503175
ew 112 G3-B-UK	626...668 MHz	503176
ew 112 G3-C-EU	734...776 MHz	503177
ew 112 G3-C-US	734...776 MHz	503178
ew 112 G3-C-UK	734...776 MHz	503179
ew 112 G3-D-EU	780...822 MHz	503180
ew 112 G3-D-EU-X	780...822 MHz	503181
ew 112 G3-D-UK	780...822 MHz	503182
ew 112 G3-E-EU	823...865 MHz	503183
ew 112 G3-E-EU-X	823...865 MHz	503184
ew 112 G3-E-UK	823...865 MHz	503185
ew 112 G3-GB	606...648 MHz	504638
ew 112 G3-1G8	1,785...1,800 MHz	504900

ew 152 G3 Presentation Set

		Cat. No.
ew 152 G3-A-EU	516...558 MHz	503102
ew 152 G3-A-US	516...558 MHz	503205
ew 152 G3-A-UK	516...558 MHz	503206
ew 152 G3-G-EU	566...608 MHz	503207
ew 152 G3-G-US	566...608 MHz	503208
ew 152 G3-G-UK	566...608 MHz	503209
ew 152 G3-B-EU	626...668 MHz	503210
ew 152 G3-B-US	626...668 MHz	503211
ew 152 G3-B-UK	626...668 MHz	503212
ew 152 G3-C-EU	734...776 MHz	503213
ew 152 G3-C-US	734...776 MHz	503214
ew 152 G3-C-UK	734...776 MHz	503215
ew 152 G3-D-EU	780...822 MHz	503216
ew 152 G3-D-EU-X	780...822 MHz	503217
ew 152 G3-D-UK	780...822 MHz	503218
ew 152 G3-E-EU	823...865 MHz	503219
ew 152 G3-E-EU-X	823...865 MHz	503220
ew 152 G3-E-UK	823...865 MHz	503221
ew 152 G3-GB	606...648 MHz	504640
ew 152 G3-1G8	1,785...1,800 MHz	504902

ew 122 G3 Presentation Set

		Cat. No.
ew 122 G3-A-EU	516...558 MHz	503101
ew 122 G3-A-US	516...558 MHz	503187
ew 122 G3-A-UK	516...558 MHz	503188
ew 122 G3-G-EU	566...608 MHz	503189
ew 122 G3-G-US	566...608 MHz	503190
ew 122 G3-G-UK	566...608 MHz	503191
ew 122 G3-B-EU	626...668 MHz	503192
ew 122 G3-B-US	626...668 MHz	503193
ew 122 G3-B-UK	626...668 MHz	503194
ew 122 G3-C-EU	734...776 MHz	503195
ew 122 G3-C-US	734...776 MHz	503196
ew 122 G3-C-UK	734...776 MHz	503197
ew 122 G3-D-EU	780...822 MHz	503198
ew 122 G3-D-EU-X	780...822 MHz	503199
ew 122 G3-D-UK	780...822 MHz	503200
ew 122 G3-E-EU	823...865 MHz	503201
ew 122 G3-E-EU-X	823...865 MHz	503202
ew 122 G3-E-UK	823...865 MHz	503203
ew 122 G3-GB	606...648 MHz	504639
ew 122 G3-1G8	1,785...1,800 MHz	504901

ew 172 G3 Instrument Set

		Cat. No.
ew 172 G3-A-EU	516...558 MHz	503103
ew 172 G3-A-US	516...558 MHz	503223
ew 172 G3-G-EU	566...608 MHz	503224
ew 172 G3-G-US	566...608 MHz	503225
ew 172 G3-B-EU	626...668 MHz	503226
ew 172 G3-B-US	626...668 MHz	503227
ew 172 G3-C-EU	734...776 MHz	503228
ew 172 G3-C-US	734...776 MHz	503229
ew 172 G3-D-EU	780...822 MHz	503230
ew 152 G3-D-EU-X	780...822 MHz	503231
ew 172 G3-D-UK	780...822 MHz	503332
ew 172 G3-E-EU	823...865 MHz	503233
ew 172 G3-E-EU-X	823...865 MHz	503234
ew 172 G3-E-UK	823...865 MHz	503235
ew 152 G3-GB	606...648 MHz	504641
ew 152 G3-1G8	1,785...1,800 MHz	504903

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PRODUCT VARIANTS

ew 135 G3 Vocal Set

	Cat. No.
ew 135 G3-A-EU	516...558 MHz
ew 135 G3-A-US	516...558 MHz
ew 135 G3-A-UK	516...558 MHz
ew 135 G3-G-EU	566...608 MHz
ew 135 G3-G-US	566...608 MHz
ew 135 G3-G-UK	566...608 MHz
ew 135 G3-B-EU	626...668 MHz
ew 135 G3-B-US	626...668 MHz
ew 135 G3-B-UK	626...668 MHz
ew 135 G3-C-EU	734...776 MHz
ew 135 G3-C-US	734...776 MHz
ew 135 G3-C-UK	734...776 MHz
ew 135 G3-D-EU	780...822 MHz
ew 135 G3-D-EU-X	780...822 MHz
ew 135 G3-D-UK	780...822 MHz
ew 135 G3-E-EU	823...865 MHz
ew 135 G3-E-EU-X	823...865 MHz
ew 135 G3-E-UK	823...865 MHz
ew 135 G3-GB	606...648 MHz
ew 135 G3-1G8	1,785...1,800 MHz

ew 145 G3 Vocal Set

	Cat. No.
ew 145 G3-A-EU	516...558 MHz
ew 145 G3-A-US	516...558 MHz
ew 145 G3-G-EU	566...608 MHz
ew 145 G3-G-US	566...608 MHz
ew 145 G3-B-EU	626...668 MHz
ew 145 G3-B-US	626...668 MHz
ew 145 G3-C-EU	734...776 MHz
ew 145 G3-C-US	734...776 MHz
ew 145 G3-D-EU	780...822 MHz
ew 145 G3-D-EU-X	780...822 MHz
ew 145 G3-D-UK	780...822 MHz
ew 145 G3-E-EU	823...865 MHz
ew 145 G3-E-EU-X	823...865 MHz
ew 145 G3-E-UK	823...865 MHz
ew 145 G3-GB	606...648 MHz
ew 145 G3-1G8	1,785...1,800 MHz

ew 165 G3 Vocal Set

	Cat. No.
ew 165 G3-A-EU	516...558 MHz
ew 165 G3-A-US	516...558 MHz
ew 165 G3-G-EU	566...608 MHz
ew 165 G3-G-US	566...608 MHz
ew 165 G3-B-EU	626...668 MHz
ew 165 G3-B-US	626...668 MHz
ew 165 G3-C-EU	734...776 MHz
ew 165 G3-C-US	734...776 MHz
ew 165 G3-D-EU	780...822 MHz
ew 165 G3-D-EU-X	780...822 MHz
ew 165 G3-D-UK	780...822 MHz
ew 165 G3-E-EU	823...865 MHz
ew 165 G3-E-EU-X	823...865 MHz
ew 165 G3-E-UK	823...865 MHz
ew 165 G3-GB	606...648 MHz
ew 165 G3-1G8	1,785...1,800 MHz



ew 100 Sets

RECOMMENDED ACCESSORIES

	Cat. No.		Cat. No.
Earworn microphones, 3.5 mm jack plug omni: black Ear Set 1-ew 504232 beige Ear Set 1-ew-3 504233		ASA 1 – Active antenna splitter A 1031 – Antenna A 2003 – Passive directional antenna AB 3 – Antenna booster ME 4 – Clip-on microphone, cardioid, black CI 1 – Instrument cable	503165 004645 003658 021822 503156 503163
Clip-on microphones, 3.5 mm jack plug omni: black MKE 1-ew 502876 white MKE 1-ew-1 502877 brown MKE 1-ew-2 502878 beige MKE 1-ew-3 502879	black MKE 2-ew Gold 009831 beige MKE 2-ew-3 Gold 009832 black MKE 40-ew 500527	ew 135 / ew 145 / ew 165 G3 Vocal Sets MMD 835-1 – evolution microphone head MMD 845-1 – evolution microphone head MME 865-1 – evolution microphone head MZW 1 – Windshield KEN 2 – Identification rings LA 2 – Charging adapter for handheld microphones CC 3 – System case	502575 502576 502581 004839 530195 503162 503168
Headmicrophones thin connection cable, 3.5 mm jack plug omni: black HSP 2-ew 009866 beige HSP 2-ew-3 009872	black HSP 4-ew 009867 beige HSP 4-ew-3 009873		
Headmicrophones thin connection cable, 3.5 mm jack plug, shorter microphone boom and smaller neckband omni: black HSP 2-ew-M 500693 beige HSP 2-ew-3-M 500692	black HSP 4-ew-M 500699 beige HSP 4-ew-3-M 500698		
Antenna Splitter for 1800 MHz – ASA 1-1G8 Antenna Booster for 1800 MHz – AB 3-1G8 Directional Antenna for 1800 MHz – AD 1800 19" RackMount Kit – GA 3 Antenna Front Mount Kit – AM 2		504914 504915 504916 503167 009912	
Power supply for one L 2015 NT 1-1-EU (EU version, 230 V) NT 1-1-UK (UK version, 230 V) NT 1-1-US (US version, 120 V)		503158 503874 503873	
Power supply for up to three L 2015 NT 3-1-EU (EU version, 230 V) NT 3-1-UK (UK version, 230 V) NT 3-1-US (US version, 120 V)		503159 503877 503876	
GA 3 – Rack-mount kit AM 2 – Antenna Mount kit CC 3 – System Case L 2015 – Charging unit BA 2015 – Rechargeable battery pack		503167 009912 503168 009828 009950	

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