

MASCOT

WIRELESS MICROPHONE SYSTEM



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The Passion of Perfect Sound Since 1979

Win Your Freedom with MASCOT Wireless Microphones



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MASCOT

UXD-310 True Diversity Single Channel Receiver

UXD-330 True Diversity Dual Channel Receiver



Features

- True diversity transmission range: up to 100 meter / 300 feet.
- Clear VA LCD displays frequency, group, channel and AF/RF levels.
- 700 available UHF frequency channels.
- Channels auto scan functions.
- Preset 8 frequency group containing 12 channels each.
- Up to 12 systems can be used simultaneously.
- The SQ control dial for adjusting the audio output level.
- Detachable receiver antennas for using with professional antenna systems.
- Balanced XLR and unbalanced 1/4" jack outputs.
- Easy to be installed into a standard 19" rack by rack ears.
- One button synchronization function between receiver and transmitter.

UXD-310 / UXD-330 RECEIVER	
Receiving Mode	True Diversity
Frequency Range	UHF 520~937.5MHz (Regionally Selected)
Display	VA LCD displays frequency, group, channel, RF & AF levels, scan, preset, SYNC
Preset Channel	8 group: 12 compatible channels in each group
Oscillator	PLL Synthesized
Modulation	FM
S/N Ratio	> 100dB, at 20KHz deviation and 60dBμV antenna input
AF Response	50Hz ~ 18KHz
T.H.D.	< 1% (at 1KHz)
Dynamic Range	> 100dB
Image & Spurious Rejection	70dB minimum
Receiving Sensitivity	At 5μV over 70dB S/N ratio
IF Frequency	1st: 243.95MHz 2nd: 10.7MHz
Tone Signal	32.768KHz
Power Supply	DC12V
Audio Output	Balanced & Unbalanced
Current Consumption	UXD-310: 260±10mA UXD-330: 520±10mA
Case	UXD-310: Half 19" EIA Rack Metal Case UXD-330: 19" EIA Rack Metal Case
Dimension(mm) WxHxD	UXD-310: 200 x 42 x 183 UXD-330: 400 x 42 x 183
Net Weight	UXD-310: Approx. 970g UXD-330: Approx. 1630g



UHF PROFESSIONAL WIRELESS MICROPHONE SYSTEM

UF-61 Handheld Microphone

UT-61 Bodypack Transmitter



UF-61



UT-61

UF-61 / UT-61 TRANSMITTER	
Frequency Range	UHF 520~937.5 MHz (Regionally Selected)
Channel Select	SYNC with receiver
Display	LCD shows group, channel and battery life
RF Power Output	10mW (max.)
Frequency Stability	±0.005%
Spurious Emission	> 60dB below carrier frequency
Gain Setting	UT-61: 0dB / -10dB / -20dB
Mic Unit	UF-61D: Uni-Direction dynamic unit μ83 UF-61V: Uni-Direction electret condenser unit VC-7 UT-61: Headset Mic / Lavalier Mic / Instrument Mic
Battery	DC3V (1.5V x 2AA)
Current Consumption	120±10mA
Dimension(mm) WxHxD	UF-61: 260 x 51Ø UT-61: 65 x 97 x 25
Net Weight	UF-61: Approx. 240g UF-61MD: Approx. 345g UT-61: Approx. 86g

Features UF-61

- Features the MASCOT μ83 dynamic capsule for sweet sound and avoiding handling noise.
- Optional VC-7 condenser capsule unit delivers delicate and clean voice in high frequency, and is suitable for high voice range performance.
- SYNC function for quickly channel setting.
- LCD shows group, channel and battery life.
- Mute off/on switch.
- UF-61MD: Upper smooth texture metal housing fits well in the hand.

Features UT-61

- LCD features group, channel and battery life.
- Gain settings for different audio input sources.
- SYNC function for quickly channel setting.
- Convenient mute switch function.



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UXD-100 True Diversity Single Channel Receiver

UXD-200 True Diversity Dual Channel Receiver



Features

- True diversity transmission range: up to 100 meter / 300 feet.
- Clear VA LCD displays frequency, group, channel and AF/RF levels.
- 700 available UHF frequency channels.
- Automatically channels scan function.
- Preset 8 frequency group containing 12 channels each.
- Up to 8 systems can be used simultaneously.
- The SQ control dial for adjusting the audio output level.
- Detachable receiver antennas for using with professional antenna systems.
- Balanced XLR and unbalanced 1/4" jack outputs.
- Easy to be installed into a standard 19" rack by rack ears.
- Synchronization function allows users to match the frequency between receiver and transmitter.

UXD-100 / UXD-200 RECEIVER	
Receiving Mode	True Diversity
Frequency Range	UHF 520~937.5 MHz (Regionally Selected)
Display	VA LCD displays frequency, group, channel, RF & AF levels, scan, preset, SYNC
Preset Channel	8 group: 12 compatible channels in each group
Oscillator	PLL Synthesized
Modulation	FM
S/N Ratio	> 100dB, at 20KHz deviation and 60dBμV antenna input
AF Response	50Hz ~ 18KHz
T.H.D.	< 1% (at 1KHz)
Dynamic Range	> 100dB
Image & Spurious Rejection	70dB minimum
Receiving Sensitivity	At 5μV over 70dB S/N ratio
IF Frequency	1st: 243.95MHz 2nd: 10.7MHz
Tone Signal	32.768KHz
Power Supply	DC12V
Audio Output	Balanced & Unbalanced
Current Consumption	UXD-100: 260±10mA UXD-200: 520±10mA
Case	UXD-100: Half 19" EIA Rack Metal Case UXD-200: 19" EIA Rack Metal Case
Dimension(mm) WxHxD	UXD-100: 200 x 42 x 183 UXD-200: 400 x 42 x 183
Net Weight	UXD-100: Approx. 975g UXD-200: Approx. 1740g



UHF PROFESSIONAL WIRELESS MICROPHONE SYSTEM

UF-61 Handheld Microphone
UT-61 Bodypack Transmitter



UF-61



UT-61

UF-61 / UT-61 TRANSMITTER	
Frequency Range	UHF 520~937.5 MHz (Regionally Selected)
Channel Select	SYNC with receiver
Display	LCD shows group, channel and battery life
RF Power Output	10mW (max.)
Frequency Stability	±0.005%
Spurious Emission	> 60dB below carrier frequency
Gain Setting	UT-61: 0dB / -10dB / -20dB
Mic Unit	UF-61D: Uni-Direction dynamic unit μ83 UF-61V: Uni-Direction electret condenser unit VC-7 UT-61: Headset Mic / Lavalier Mic / Instrument Mic
Battery	DC3V (1.5V x 2AA)
Current Consumption	120±10mA
Dimension(mm) WxHxD	UF-61: 260 x 51Ø UT-61: 65 x 97 x 25
Net Weight	UF-61: Approx. 240g UF-61MD: Approx. 345g UT-61: Approx. 86g

Features UF-61

- Features the MASCOT μ83 dynamic capsule for sweet sound and avoiding handling noise.
- Optional VC-7 condenser capsule unit delivers delicate and clean voice in high frequency, and is suitable for high voice range performance.
- SYNC function for quickly channel setting.
- LCD shows group, channel and battery life.
- Mute off/on switch.
- UF-61MD: Upper smooth texture metal housing fits well in the hand.

Features UT-61

- LCD features group, channel and battery life.
- Gain settings for different audio input sources.
- SYNC function for quickly channel setting.
- Convenient mute switch function.



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UXD-90 True Diversity Single Channel Receiver

UXD-180 True Diversity Dual Channel Receiver



Features

- True diversity transmission range: up to 100 meter / 300 feet.
- Clear VA LCD displays frequency, group, channel and AF/RF levels.
- 700 available UHF frequency channels.
- Channels auto scan functions.
- Preset 8 frequency group containing 12 channels each.
- Up to 8 systems can be used simultaneously.
- The SQ control dial for adjusting the audio output level.
- Detachable receiver antennas for using with professional antenna systems.
- Balanced XLR and unbalanced 1/4" jack outputs.
- Easy to be installed into a standard 19" rack by rack ears.
- One button synchronization function between receiver and transmitter.

UXD-90 / UXD-180 RECEIVER	
Receiving Mode	True Diversity
Frequency Range	UHF 520~937.5 MHz (Regionally Selected)
Display	VA LCD displays frequency, group, channel, RF & AF levels, scan, preset, SYNC
Preset Channel	8 group: 12 compatible channels in each group
Oscillator	PLL Synthesized
Modulation	FM
S/N Ratio	> 100dB, at 20KHz deviation and 60dBμV antenna input
AF Response	50Hz ~ 18KHz
T.H.D.	< 1% (at 1KHz)
Dynamic Range	> 100dB
Image & Spurious Rejection	70dB minimum
Receiving Sensitivity	At 5μV over 70dB S/N ratio
IF Frequency	1st: 243.95MHz 2nd: 10.7MHz
Tone Signal	32.768KHz
Power Supply	DC12V
Audio Output	Balanced & Unbalanced
Current Consumption	UXD-90 : 260±10mA UXD-180 : 520±10mA
Case	UXD-90 : Half 19" EIA Rack Metal Case UXD-180 : 19" EIA Rack Metal Case
Dimension(mm) WxHxD	UXD-90 : 200 x 42 x 183 UXD-180 : 400 x 42 x 183
Net Weight	UXD-90 : Approx. 975g UXD-180 : Approx. 1740g



UHF PROFESSIONAL WIRELESS MICROPHONE SYSTEM

UF-61 Handheld Microphone
UT-61 Bodypack Transmitter



UF-61



UT-61

UF-61 / UT-61 TRANSMITTER	
Frequency Range	UHF 520~937.5 MHz (Regionally Selected)
Channel Select	SYNC with receiver
Display	LCD shows group, channel and battery life
RF Power Output	10mW (max.)
Frequency Stability	±0.005%
Spurious Emission	> 60dB below carrier frequency
Gain Setting	UT-61: 0dB / -10dB / -20dB
Mic Unit	UF-61D: Uni-Direction dynamic unit μ 83 UF-61V: Uni-Direction electret condenser unit VC-7 UT-61: Headset Mic / Lavalier Mic / Instrument Mic
Battery	DC3V (1.5V x 2AA)
Current Consumption	120±10mA
Dimension(mm) WxHxD	UF-61: 260 x 51 \varnothing UT-61: 65 x 97 x 25
Net Weight	UF-61: Approx. 240g UF-61MD: Approx. 345g UT-61: Approx. 86g

Features UF-61

- Features the MASCOT μ 83 dynamic capsule for sweet sound and avoiding handling noise.
- Optional VC-7 condenser capsule unit delivers delicate and clean voice in high frequency, and is suitable for high voice range performance.
- SYNC function for quickly channel setting.
- LCD shows group, channel and battery life.
- Mute off/on switch.
- UF-61MD: Upper smooth texture metal housing fits well in the hand.

Features UT-61

- LCD features group, channel and battery life.
- Gain settings for different audio input sources.
- SYNC function for quickly channel setting.
- Convenient mute switch function.



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RS-61 Diversity Single Channel Receiver

RS-66 Diversity Dual Channel Receiver



Features

- Diversity transmission range: up to 60 meter / 190 feet.
- Clear VA LCD displays frequency, group, channel and AF/RF levels.
- 700 available UHF frequency channels.
- Single button scan functions.
- Preset 8 frequency group containing 12 channels each.
- Up to 8 systems can be used simultaneously.
- The SQ control dial for adjusting the audio output level.
- Detachable receiver antennas for using with professional antenna systems.
- Balanced XLR and unbalanced 1/4" jack outputs.
- Easy to be installed into a standard 19" rack by rack ears.
- Fast and easy setup with synchronization matches the operating channel of transmitter to receiver.

RS-61 / RS-66 RECEIVER

Receiving Mode	Diversity
Frequency Range	UHF 520~937.5 MHz (Regionally Selected)
Display	VA LCD displays frequency, group, channel, RF & AF levels, scan, preset, SYNC
Preset Channel	8 group: 12 compatible channels in each group
Oscillator	PLL Synthesized
Modulation	FM
S/N Ratio	> 100dB, at 20KHz deviation and 60dBμV antenna input
AF Response	50Hz ~ 18KHz
T.H.D.	< 1% (at 1KHz)
Dynamic Range	> 100dB
Image & Spurious Rejection	70dB minimum
Receiving Sensitivity	At 5μV over 70dB S/N ratio
IF Frequency	1st: 243.95MHz 2nd: 10.7MHz
Tone Signal	32.768KHz
Power Supply	DC12V
Audio Output	Balanced & Unbalanced
Current Consumption	RS-61: 185±10mA RS-66: 370±10mA
Case	RS-61: Half 19" EIA Rack Mini Metal Case RS-66: 19" EIA Rack Metal Case
Dimension(mm) WxHxD	RS-61: 200 x 42 x 122 RS-66: 400 x 42 x 183
Net Weight	RS-61: Approx. 639g RS-66: Approx. 1480g



UHF PROFESSIONAL WIRELESS MICROPHONE SYSTEM

UF-32 Handheld Microphone
UT-51 Bodypack Transmitter



UF-32



UT-51

UF-32 / UT-51 TRANSMITTER	
Frequency Range	UHF 520~937.5 MHz (Regionally Selected)
Channel Select	SYNC with receiver
Display	LED shows the battery life
RF Power Output	10mW (max.)
Frequency Stability	±0.005%
Spurious Emission	> 60dB below carrier frequency
Gain Setting	UT-51: 0dB / -10dB / -20dB
Mic Unit	UF-32D: Uni-Direction dynamic unit μ 93A UF-32V: Uni-Direction electret condenser unit VC-7 UT-51: Headset Mic / Lavalier Mic / Instrument Mic
Battery	DC3V (1.5V x 2AA)
Current Consumption	120±10mA
Dimension(mm)WxHxD	UF-32: 243 x 51 \varnothing UT-51: 65 x 97 x 25
Net Weight	UF-32: Approx. 258g UT-51: Approx. 86g

Features UF-32

- Features the MASCOT μ 93A dynamic capsule for sweet sound and avoiding handling noise.
- Optional VC-7 condenser capsule unit delivers delicate and clean voice in high frequency, and is suitable for high voice range performance.
- SYNC function for quickly channel setting.
- Mute off/on switch.

Features UT-51

- SYNC function for quickly channel setting.
- Gain settings for different audio input sources.
- Convenient mute switch function.



MASCOT

RS-51B Diversity Single Channel Receiver

RS-55B Diversity Dual Channel Receiver



Features

- Diversity transmission range: up to 60 meter / 190 feet.
- Easy to setup and deliver good sound quality.
- Clearly LED 7-segment displays selected channel.
- High signal/noise ration performance.
- Balanced XLR and unbalanced 1/4" jack outputs.
- Adjustable squelch for eliminating RF interference.
- Easy to be installed into a standard 19" rack by rack kits.

RS-51B / RS-55B RECEIVER	
Receiving Mode	Diversity
Frequency Range	UHF 520~937.5 MHz (Regionally Selected)
Display	7 Segment display shows channel
Preset Channel	8 channel
Oscillator	PLL Synthesized
Modulation	FM
S/N Ratio	> 100dB, at 20KHz deviation and 60dB μ V antenna input
AF Response	50Hz ~ 18KHz
T.H.D.	< 1% (at 1KHz)
Dynamic Range	> 100dB
Image & Spurious Rejection	70dB minimum
Receiving Sensitivity	At 5 μ V over 70dB S/N ratio
IF Frequency	1st: 243.95MHz 2nd: 10.7MHz
Tone Signal	32.768KHz
Power Supply	DC12V
Audio Output	Balanced & Unbalanced
Current Consumption	RS-51B: 150 \pm 10mA RS-55B: 350 \pm 10mA
Case	RS-51B: Half 19" EIA Rack Case RS-55B: 19" EIA Rack Metal Case
Dimension(mm) WxHxD	RS-51B: 200 x 42 x 122 RS-55B: 400 x 42 x 183
Net Weight	RS-51B: Approx. 365g RS-55B: Approx. 1445g



UHF PROFESSIONAL WIRELESS MICROPHONE SYSTEM

UF-21B Handheld Microphone
UT-16B Bodypack Transmitter



UF-21B



UT-16B

UF-21B / UT-16B TRANSMITTER	
Frequency Range	UHF 520~937.5 MHz (Regionally Selected)
Channel Select	Button select
Display	LED shows the battery life
RF Power Output	10mW (max.)
Frequency Stability	±0.005%
Spurious Emission	> 60dB below carrier frequency
Gain Setting	UT-16B: 10dB / 0dB / -10dB
Mic Unit	UF-21B: Uni-Direction dynamic unit μ93A UT-16B: Headset Mic / Lavalier Mic / Instrument Mic
Battery	DC3V (1.5V x 2AA)
Current Consumption	120±10mA
Dimension(mm) WxHxD	UF-21B: 260 x 56Ø UT-16B: 65 x 97 x 24
Net Weight	UF-21B: Approx. 240g UT-16B: Approx. 84g

Features UF-21B

- Features the MASCOT μ93A dynamic capsule for sweet sound and avoiding handling noise.
- Optional VC-7 condenser capsule unit delivers delicate and clean voice in high frequency, and is suitable for high voice range performance.
- The 7-segment LED display shows the current operating channel.

Features UT-16B

- Gain setting for different audio input sources.
- The 7-segment LED display shows the current operating channel.
- 2 AA batteries offer a long time operation.
- Convenient mute switch function.



MASCOT

RS-31B Diversity Single Channel Receiver

RS-33B Diversity Dual Channel Receiver



Features

- Up to 60 meters reception for total wireless freedom.
- Diversity receiver ensure the reliable transmission quality.
- Easy to use intuitive interface with preset 8 channels offers quickly setup.
- AF/RF LED clearly indicated reception status.
- Balanced XLR and unbalanced 1/4" jack outputs.
- Adjustable squelch for eliminating RF interference.
- Clearly LED 7-segment displays selected channels.

RS-31B / RS-33B RECEIVER	
Receiving Mode	Diversity
Frequency Range	UHF 520 ~ 937.5 MHz (Regionally Selected)
Display	7 Segment display chows channel
Preset Channel	8 channel
Oscillator	PLL Synthesized
Modulation	FM
S/N Ratio	> 100dB, at 20KHz deviation and 60dBµV antenna input
AF Response	50Hz ~ 18KHz
T.H.D.	< 1% (at 1KHz)
Dynamic Range	> 100dB
Image & Spurious Rejection	70dB minimum
Receiving Sensitivity	At 5µV over 70dB S/N ratio
IF Frequency	1st: 243.95MHz 2nd: 10.7MHz
Tone Signal	32.768KHz
Power Supply	DC12V
Audio Output	Balanced & Unbalanced
Current Consumption	RS-31B: 120±10mA RS-33B: 350±10mA
Case	Mini Case
Dimension(mm) WxHxD	RS-31B: 170 x 42 x 102 RS-33B: 262 x 42 x 102
Net Weight	RS-31B: Approx. 260g RS-33B: Approx. 375g



UHF PROFESSIONAL WIRELESS MICROPHONE SYSTEM

UF-21B Handheld Microphone
UT-16B Bodypack Transmitter



UF-21B



UT-16B

UF-21B / UT-16B TRANSMITTER	
Frequency Range	UHF 520~937.5 MHz (Regionally Selected)
Channel Select	Button select
Display	LED shows the battery life
RF Power Output	10mW (max.)
Frequency Stability	±0.005%
Spurious Emission	> 60dB below carrier frequency
Gain Setting	UT-16B: 10dB / 0dB / -10dB
Mic Unit	UF-21B: Uni-Direction dynamic unit μ93A UT-16B: Headset Mic / Lavalier Mic / Instrument Mic
Battery	DC3V (1.5V x 2AA)
Current Consumption	120±10mA
Dimension(mm) WxHxD	UF-21B: 260 x 56Ø UT-16B: 65 x 97 x 24
Net Weight	UF-21B: Approx. 240g UT-16B: Approx. 84g

Features UF-21B

- Features the MASCOT μ93A dynamic capsule for sweet sound and avoiding handling noise.
- Optional VC-7 condenser capsule unit delivers delicate and clean voice in high frequency, and is suitable for high voice range performance.
- The 7-segment LED display shows the current operating channel.

Features UT-16B

- Gain setting for different audio input sources.
- The 7-segment LED display shows the current operating channel.
- 2 AA batteries offer a long time operation.
- Convenient mute switch function.



MASCOT

RS-80 Diversity Single Channel Receiver

RS-83 Diversity Single Channel Receiver



RS-80



RS-83

Features

- Stylish design with intuitive operation offers the utmost portable convenience.
- Diversity receiver ensures the reliable transmission quality.
- 16 channel preset frequency for quickly setup.
- AF/RF LED clearly indicate reception status.
- Balanced XLR and unbalanced 1/4" outputs for using with a wide range of equipment.
- Adjustable squelch for eliminating RF interference.
- Up to 60 meters reception for total wireless freedom.

RS-80 / RS-83 RECEIVER	
Receiving Mode	Diversity
Frequency Range	UHF 520 ~ 937.5 MHz (Regionally Selected)
Preset Channel	16 channel
Oscillator	PLL Synthesized
Modulation	FM
S/N Ratio	> 100dB, at 20KHz deviation and 60dBμV antenna input
AF Response	50Hz ~ 18KHz
T.H.D.	< 1% (at 1KHz)
Dynamic Range	> 100dB
Image & Spurious Rejection	70dB minimum
Receiving Sensitivity	At 5μV over 70dB S/N ratio
IF Frequency	1st: 243.95MHz 2nd: 10.7MHz
Tone Signal	32.768KHz
Power Supply	DC12V
Audio Output	Balanced & Unbalanced
Current Consumption	RS-80: 120±10mA RS-83: 120±10mA
Case	Mini Case
Dimension(mm) WxHxD	RS-80: 170 x 32 x 106 RS-83: 170 x 42 x 102
Net Weight	RS-80: Approx. 260g RS-83: Approx. 375g

VOCAL	LAVALIER	HEADWORN

UHF PROFESSIONAL WIRELESS MICROPHONE SYSTEM

UF-16 Handheld Microphone
UT-16 Bodypack Transmitter



UF-16



UT-16

UF-16 / UT-16 TRANSMITTER	
Frequency Range	UHF 520~937.5 MHz (Regionally Selected)
Channel Select	Rotary
Display	LED shows the battery life
RF Power Output	10mW (max.)
Frequency Stability	±0.005%
Spurious Emission	> 60dB below carrier frequency
Gain Setting	UT-16B: 0dB / -10dB / -20dB
Mic Unit	UF-16: Uni-Direction electret condenser unit VC-7 UT-16: Headset Mic / Lavalier Mic / Instrument Mic
Battery	DC3V (1.5V x 2AA)
Current Consumption	120±10Ma
Dimension(mm) WxHxD	UF-16: 237 x 56Ø UT-16: 65 x 100 x 27
Net Weight	UF-16: Approx. 240g UT-16: Approx. 84g

Features UF-16

- With VC-7 condenser capsule unit delivers delicate and clean voice in high frequency, and is suitable for high voice range performance.
- Compact and solid housing design.
- LED shows power status.
- 2 AA batteries offer a long time operation.
- The power button is located at the bottom of the body to prevent accidentally activated.

Features UT-16

- Locking 3.5mm jack can be worked with lavalier, headset or instrument pickup.
- Numerous uni-directional and omni-directional condenser lavalier or headset microphone for choose.
- 2 AA batteries offer a long time operation.



MASCOT

RS-612 Dual Channel Receiver

RS-614 Quad Channel Receiver



RS-612



RS-614

Features

- Clear VA LCD display panel and user-friendly interface.
- Auto scan and preset function.
- Preset 8 frequency group containing 12 channels each.
- Easy wireless synchronization between transmitter and receiver.
- Individual output volume control knob.
- The SQ control dial for adjusting the audio output level.
- Balanced XLR and unbalanced 1/4" jack outputs.
- Detachable receiver antennas can connect with antenna booster for enhance the RF signal transmission.
- Easy to be installed into a standard 19" rack by rack ears.

RS-612 / RS-614 RECEIVER

Frequency Range	UHF 520-937.5 MHz (Regionally Selected)
Display	VA LCD displays group, channel, RF & AF levels, scan, preset, SYNC
Preset Channel	8 group: 12 compatible channels in each group
Oscillator	PLL Synthesized
Modulation	FM
S/N Ratio	> 100dB, at 20KHz deviation and 60dBµV antenna input
AF Response	50Hz ~ 18KHz
T.H.D.	< 1% (at 1KHz)
Dynamic Range	> 100dB
Image & Spurious Rejection	70dB minimum
Receiving Sensitivity	At 5µV over 70dB S/N ratio
IF Frequency	1st: 243.95MHz 2nd: 10.7MHz
Tone Signal	32.768KHz
Power Supply	DC12V
Audio Output	Balanced & Unbalanced
Current Consumption	RS-612: 360±10mA RS-614: 720±10mA
Case	RS-612: Half 19" EIA Rack Metal Case RS-614: 19" EIA Rack Metal Case
Dimension(mm) WxHxD	RS-612: 200 x 42 x 183 RS-614: 400 x 42 x 183
Net Weight	RS-612: Approx. 917g RS-614: Approx. 1780g

VOCAL



LAVALIER



HEADWORN



UHF PROFESSIONAL WIRELESS MICROPHONE SYSTEM

UF-32 Handheld Microphone

UT-51 Bodypack Transmitter



UF-32



UT-51

UF-32 / UT-51 TRANSMITTER	
Frequency Range	UHF 520~937.5 MHz (Regionally Selected)
Channel Select	SYNC with receiver
Display	LED shows the battery life
RF Power Output	10mW (max.)
Frequency Stability	±0.005%
Spurious Emission	> 60dB below carrier frequency
Gain Setting	UT-51: 0dB / -10dB / -20dB
Mic Unit	UF-32D: Uni-Direction dynamic unit μ 93A UF-32V: Uni-Direction electret condenser unit VC-7 UT-51: Headset Mic / Lavalier Mic / Instrument Mic
Battery	DC3V (1.5V x 2AA)
Current Consumption	120±10mA
Dimension(mm) WxHxD	UF-32: 243 x 51 \varnothing UT-51: 65 x 97 x 25
Net Weight	UF-32: Approx. 258g UT-51: Approx. 86g

Features UF-32

- Features the MASCOT μ 93A dynamic capsule for sweet sound and avoiding handling noise.
- Optional VC-7 condenser capsule unit delivers delicate and clean voice in high frequency, and is suitable for high voice range performance.
- SYNC function for quickly channel setting.
- Mute off/on switch.

Features UT-51

- SYNC function for quickly channel setting.
- Gain settings for different audio input sources.
- Convenient mute switch function.



MASCOT

RS-21B High Sensitivity Dual Channel Receiver

RS-22B High Sensitivity Dual Channel Receiver



RS-21B



RS-22B

Features

- Clearly channel LED display.
- 8 selectable channels for easy to setup and deliver good sound quality.
- High signal/noise ratio performance.
- Unbalanced 1/4" jack outputs.
- Adjustable squelch for minimizing external RF interference.
- Easy to be installed into a standard 19" rack by rack kits.
- Individual output volume control knob.
- Mixing out switch to combine signal to one output.

RS-21B / RS-22B RECEIVER	
Frequency Range	UHF 520-937.5 MHz (Regionally Selected)
Display	7 Segment display shows channel
Preset Channel	8 channel
Oscillator	PLL Synthesized
Modulation	FM
S/N Ratio	> 100dB, at 20KHz deviation and 60dBuV antenna input
AF Response	50Hz ~ 18KHz
T.H.D.	< 1% (at 1KHz)
Dynamic Range	> 100dB
Image & Spurious Rejection	70dB minimum
Receiving Sensitivity	At 5µV over 70dB S/N ratio
IF Frequency	1st: 243.95MHz 2nd: 10.7MHz
Tone Signal	32.768KHz
Power Supply	DC12V
Audio Output	Unbalanced
Current Consumption	RS-21B: 250±10mA RS-22B: 250±10mA
Case	RS-21B: Half 19" EIA Rack Case RS-22B: 19" EIA Rack Metal Case
Dimension(mm) WxHxD	RS-21B: 200 x 42 x 183 RS-22B: 400 x 42 x 183
Net Weight	RS-21B: Approx. 975g RS-22B: Approx. 1740g



UHF PROFESSIONAL WIRELESS MICROPHONE SYSTEM

UF-21B Handheld Microphone
UT-16B Bodypack Transmitter



UF-21B



UT-16B

UF-21B / UT-16B TRANSMITTER	
Frequency Range	UHF 520~937.5 MHz (Regionally Selected)
Channel Select	Button select
Display	LED shows the battery life
RF Power Output	10mW (max.)
Frequency Stability	±0.005%
Spurious Emission	> 60dB below carrier frequency
Gain Setting	UT-16B: 10dB / 0dB / -10dB
Mic Unit	UF-21B: Uni-Direction dynamic unit μ 93A UT-16B: Headset Mic / Lavalier Mic / Instrument Mic
Battery	DC3V (1.5V x 2AA)
Current Consumption	120±10mA
Dimension(mm) WxHxD	UF-21B: 260 x 56 \varnothing UT-16B: 65 x 97 x 24
Net Weight	UF-21B: Approx. 240g UT-16B: Approx. 84g

Features UF-21B

- Features the MASCOT μ 93A dynamic capsule for sweet sound and avoiding handling noise.
- Optional VC-7 condenser capsule unit delivers delicate and clean voice in high frequency, and is suitable for high voice range performance.
- The 7-segment LED display shows the current operating channel.

Features UT-16B

- Gain setting for different audio input sources.
- The 7-segment LED display shows the current operating channel.
- 2 AA batteries offer a long time operation.
- Convenient mute switch function.



MASCOT

RS-16B Single Channel Mini Receiver



RS-16B

Features

- Compact, lightweight and portable design.
- Handily function for quickly setup.
- Clear channel LED display.
- Preset 8 selectable channels.
- Adjustable 2-step squelch function for minimizing external RF interference.
- With two 3.5mm jack for connecting a headphone, mixer or amplifier.
- Multiple receivers to one transmitter are available.

RS-16B RECEIVER	
Receiving Mode	Non-Diversity
Frequency Range	UHF 520-937.5 MHz (Regionally Selected)
Display	7 Segment display shows channel
Preset Channel	8 channel
Oscillator	PLL Synthesized
Modulation	FM
S/N Ratio	> 100dB, at 20KHz deviation and 60dB μ V antenna input
AF Response	50Hz ~ 18KHz
T.H.D	< 1% (at 1KHz)
Dynamic Range	> 100dB
Image & Spurious Rejection	70dB minimum
Receiving Sensitivity	At 5 μ V over 70dB S/N ratio
IF Frequency	1st: 243.95MHz 2nd: 10.7MHz
Tone Signal	32.768KHz
Power Supply	DC12V
Audio Output	Ø3.5mm phone jack
Current Consumption	120 \pm 10mA
Case	Bodypack Receiver
Dimension (mm) WxHxD	65 x 97 x 24
Net Weight	Approx. 86g



UHF PROFESSIONAL WIRELESS MICROPHONE SYSTEM

UF-22B Handheld Microphone
UT-16B Bodypack Transmitter



UF-22B



UT-16B

UF-22B / UT-16B TRANSMITTER	
Frequency Range	UHF 520~937.5 MHz (Regionally Selected)
Channel Select	Button select
Display	LED shows the battery life
RF Power Output	10mW (max.)
Frequency Stability	±0.005%
Spurious Emission	> 60dB below carrier frequency
Gain Setting	UT-16B: 10dB / 0dB / -10dB
Mic Unit	UF-22B: Uni-Direction condenser unit VC-7 UT-16B: Headset Mic / Lavalier Mic / Instrument Mic
Battery	DC3V (1.5V x 2AA)
Current Consumption	120±10mA
Dimension(mm) WxHxD	UF-22B: 235 x 56Ø UT-16B: 65 x 97 x 24
Net Weight	UF-22B: Approx. 235g UT-16B: Approx. 84g

Features UF-22B

- Features the MASCOT μ 93A dynamic capsule for sweet sound and avoiding handling noise.
- Optional VC-7 condenser capsule unit delivers delicate and clean voice in high frequency, and is suitable for high voice range performance.
- The 7-segment LED display shows the current operating channel.

Features UT-16B

- Gain setting for different audio input sources.
- The 7-segment LED display shows the current operating channel.
- 2 AA batteries offer a long time operation.
- Convenient mute switch function.

GUITAR	INSTRUMENT	MULTIPLE RECEIVERS

MASCOT

RS-60 Single Channel Receiver

RS-120 Dual Channel Receiver



RS-60



RS-120

Features

- Compact lightweight design for all occasions.
- 8 preset selectable channels offers quickly and easily setup.
- AF/RF LED clearly indicated reception status.
- Unbalanced 1/4" jack audio output connectors.
- Adjustable squelch for eliminating RF interference.

RS-60 / RS-120 RECEIVER	
Frequency Range	UHF 520 ~ 937.5 MHz (Regionally Selected)
Preset Channel	8 channel
Oscillator	PLL Synthesized
Modulation	FM
S/N Ratio	> 100dB, at 20KHz deviation and 60dBµV antenna input
AF Response	50Hz ~ 18KHz
T.H.D.	< 1% (at 1KHz)
Dynamic Range	> 100dB
Image & Spurious Rejection	70dB minimum
Receiving Sensitivity	At 5µV over 70dB S/N ratio
IF Frequency	1st: 243.95MHz 2nd: 10.7MHz
Tone Signal	32.768KHz
Power Supply	DC12V
Audio Output	Unbalanced 1/4" (6.35mm) output
Current Consumption	RS-60: 110mA ± 10mA RS-120: 200 mA ± 10mA
Case	Mini Case
Dimension (mm) WxHxD	RS-60: 170 x 32 x 106 RS-120: 170 x 32 x 106
Net Weight	RS-60: Approx. 260g RS-120: Approx. 375g



UHF PROFESSIONAL WIRELESS MICROPHONE SYSTEM

UF-16 Handheld Microphone

UT-16 Bodypack Transmitter



UF-16



UT-16

UF-16 / UT-16 TRANSMITTER	
Frequency Range	UHF 520~937.5 MHz (Regionally Selected)
Channel Select	Rotary
Display	LED shows the battery life
RF Power Output	10mW (max.)
Frequency Stability	±0.005%
Spurious Emission	> 60dB below carrier frequency
Gain Setting	UT-16B: 0dB / -10dB / -20dB
Mic Unit	UF-16: Uni-Direction electret condenser unit VC-7 UT-16: Headset Mic / Lavalier Mic / Instrument Mic
Battery	DC3V (1.5V x 2AA)
Current Consumption	120±10mA
Dimension(mm) WxHxD	UF-16: 237 x 56Ø UT-16: 65 x 100 x 27
Net Weight	UF-16: Approx. 240g UT-16: Approx. 84g

Features UF-16

- With VC-7 condenser capsule unit delivers delicate and clean voice in high frequency, and is suitable for high voice range performance.
- Compact and solid housing design.
- LED shows power status.
- 2 AA batteries offer a long time operation.
- Visible power button for easily operation.

Features UT-16

- Locking 3.5mm jack can be worked with lavalier, headset or instrument pickup.
- Numerous uni-directional and omni-directional condenser lavalier or headset microphone for choose.
- 2 AA batteries offer a long time operation.



MASCOT

Lavalier Microphone

Low-visible miniature lavalier microphones are optimized for speech and vocal applications. Compatible with all kinds of Mascot Bodypack Transmitters.



LAV-6A

- Featuring clear and clean sound for various presentation applications.
- Wide frequency response for a true nature sound reproduction.
- Low handling noise and good sensitivity.
- Compatible with body-pack transmitter.

LAV-6A	
Type	Uni-Directional Electret Condenser
Sensitivity	-47±3dB
Frequency Range	100~20,000Hz
Max. Operation Voltage	5V DC
Current Consumption	Max. 0.5mA
S/N Ratio	>60dB
Dimension(mm) WxHxD	12 Ø x 37
Standard Accessories	Wind Screen & Clip
Connector	3pin Mini XLR TA3F Female Connector 4pin Mini XLR TA4F Female Connector 3.5Ø screw plug



LAV-7A

- Featuring clear and clean sound for various presentation applications.
- Wide frequency response for a true nature sound reproduction.
- Low handling noise and good sensitivity.
- Compatible with body-pack transmitter.

LAV-7A	
Type	Uni-Directional Electret Condenser
Sensitivity	-47±3dB
Frequency Range	100~20,000Hz
Max. Operation Voltage	5V DC
Current Consumption	Max. 0.5mA
S/N Ratio	>60dB
Dimension(mm) WxHxD	13 Ø x 38
Standard Accessories	Wind Screen & Clip
Connector	3pin Mini XLR TA3F Female Connector 4pin Mini XLR TA4F Female Connector 3.5Ø screw plug



LAV-204

- Pick-up the sound very clearly, even the capsule unit is far away from the sound source.
- Eliminate the breathing noise and has very good sensitivity.
- Smaller and light design lets user wearing more comfortable.
- Compatible with body-pack transmitter.

LAV-204	
Type	Omni-Directional Electret Condenser
Sensitivity	-42±3dB
Frequency Range	100~20,000Hz
Max. Operation Voltage	10V DC
Current Consumption	Max. 0.5mA
S/N Ratio	>60dB
Dimension(mm) WxHxD	5.7 Ø x 16.5
Standard Accessories	Wind Screen & Clip
Connector	3pin Mini XLR TA3F Female Connector 4pin Mini XLR TA4F Female Connector 3.5Ø screw plug



LAV-206

- Pick-up the sound very clearly, even the capsule unit is far away from the sound source.
- Eliminate the breathing noise and has very good sensitivity.
- Smaller and light design lets user wearing more comfortable.
- Compatible with body-pack transmitter.

LAV-206	
Type	Omni-Directional Electret Condenser
Sensitivity	-43±3dB
Frequency Range	100-20,000Hz
Max. Operation Voltage	10V DC
Current Consumption	Max. 0.5mA
S/N Ratio	>58dB
Dimension(mm) WxHxD	8.6 Ø x 22
Standard Accessories	Wind Screen & Clip
Connector	3pin Mini XLR TA3F Female Connector 4pin Mini XLR TA4F Female Connector 3.5Ø screw plug

Instrument Microphone

Extremely rugged with adjustable gooseneck is an ideal design for wind instruments applications.



SM-11

- Adjustable clip and gooseneck can pick-up sound source in properly position.
- Wide-range frequency response provides the powerful, smooth and clean sound.
- Low distortion at high sound pressure occasions.

SM-11	
Type	Uni-Directional Electret Condenser
Sensitivity	-43±3dB
Frequency Range	100-20,000Hz
Max. Operation Voltage	5V DC
Current Consumption	Max. 0.5mA
S/N Ratio	>60dB
Dimension(mm) WxHxD	12 Ø x 37
Standard Accessories	Wind Screen
Connector	3pin Mini XLR TA3F Female Connector 4pin Mini XLR TA4F Female Connector 3.5Ø screw plug

MASCOT

Headset Microphone

The high quality condenser headset microphone are suitable for active microphone users.



HM-11

- Design with the lightweight wireframe for long time operation.
- Clear and nature frequency response for perfect sound performance.
- Ideally provide isolation from external unwanted sound source and high gain-before-feedback.
- For professional user.

HM-11	
Type	Uni-Directional Electret Condenser
Sensitivity	-47±3dB
Frequency Range	100~20,000Hz
Max. Operation Voltage	5V DC
Current Consumption	Max. 0.5mA
S/N Ratio	>60dB
Standard Accessories	Wind Screen
Connector	3pin Mini XLR TA3F Female Connector 4pin Mini XLR TA4F Female Connector 3.5Ø screw plug



HM-7

- Lightweight wireframe and elastic headband adjust for a secure and comfort fit.
- Delivers high sound quality with hand-free operation.
- Sweat resistant and shockproof construction eliminated the handing or shaking noise.

HM-7	
Type	Uni-Directional Electret Condenser
Sensitivity	-47±3dB
Frequency Range	100~20,000Hz
Max. Operation Voltage	5V DC
Current Consumption	Max. 0.5mA
S/N Ratio	>60dB
Standard Accessories	Wind Screen
Connector	3pin Mini XLR TA3F Female Connector 4pin Mini XLR TA4F Female Connector 3.5Ø screw plug



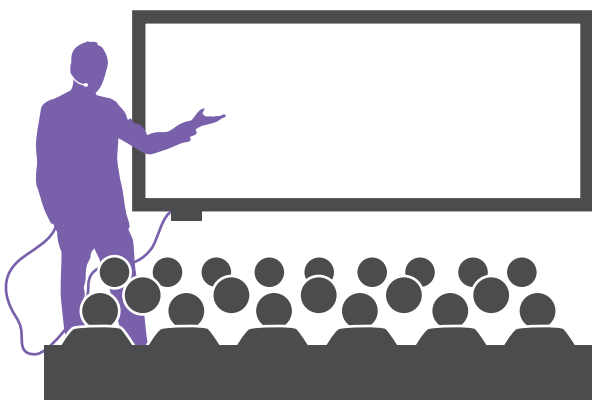
HM-6

- Design with the lightweight wireframe for long time operation.
- Delivers high sound quality with hand-free operations.
- Suitable for vocal application where comfort and reliability are required.

HM-6	
Type	Uni-Directional Electret Condenser
Sensitivity	-49±4dB
Frequency Range	100~20,000Hz
Max. Operation Voltage	10V DC
Current Consumption	Max. 0.5mA
S/N Ratio	>60dB
Standard Accessories	Wind Screen
Connector	3pin Mini XLR TA3F Female Connector 4pin Mini XLR TA4F Female Connector 3.5Ø screw plug

Phantom Power Cable Kit

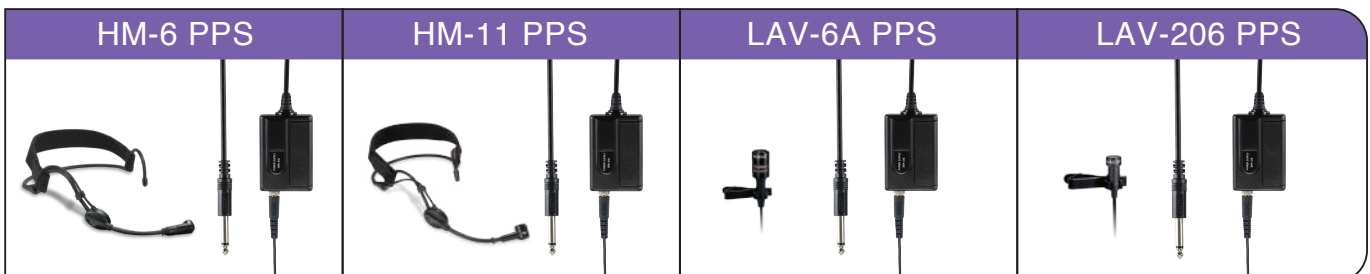
The ideal, convenient device and most widely used as a power source for condenser microphones.



DPA-316

- Plug and use.
- 3.5mm screw socket, compatible with lavalier microphone or headset microphone.
- It can be connected with amplifier, mixer, loudspeakers, etc.
- Using one 1.5V AA battery to supply the power to the connected electret condenser microphone.
- 5M high quality audio cable with 6.3mm plug.

DPA-316	
Type	Phantom Power Cable Kit
Power Supply	1 x AA battery, 1.5V
Battery Operation	About 4,000 hours of continuous use
Socket	3.5mm Jack Socket
Cable	5M Cable with 6.3mm Plug
Assortment	Headset Microphone Lavalier Microphone



MASCOT

Antenna System

No matter how to adjust the receiver or transmitter position, the signal transmission quality for wireless microphone is still not good. The UHF antenna system is the solution for frustrated performers.



AU-9A Log Antenna

- UHF wideband (500 MHz ~ 1GHz) frequency range.
- It can be used as a transmitting or receiving antenna for detachable antenna wireless microphone system or in-ear monitoring system.
- With 4 ~ 6dBi gain is suitable for various application required specific directionality.
- Adjustable connector design allows it to be mounted on a microphone stand, wall or suspended from the ceiling.

AU-9A Log Antenna	
Pick-up Pattern	Uni-Directional
Open Angle	±50°
Frequency Range	500MHz ~ 1GHz
Front/Back Ratio	> = 18dB
Antenna Gain	5.5dBi
Wave Impedance	50Ω
RF Connector	BNC
Stand Adapter	5/8" x 27 brass thread
Overall Dimensions(mm)	273.3 x 273 x 26
WxHxD	
Weight	310g



AB-1 Antenna Booster

- Compatible with AU-9A Log Antenna.
- It can enhance the receiving sensitivity and compensate the signal loss from extend coaxial cable transmission.
- Powered by receiver or antenna divider.
- Optional for different frequency band.

AB-1 Antenna Booster	
Frequency Range	500MHz ~ 1GHz
Gain Range	15dB ± 1dB
Impedance	50Ω
Selectable Gain	0dB (passive) / -6dB
Power Supply	DC12V / 60mA
Overall Dimensions(mm)	65 x 40 x 15
WxHxD	



AH-2 Antenna Holder

- The wall-mountable antenna holder makes the AU-9A easily be connected to the receiver, which can be installed on the wall for indoor use.
- Compatible with AU-9A.

AH-1 Antenna Holder	
Screw Adapter	5/8" Female Type
Overall Dimensions(mm)	80 x 26 x 26
WxHxD	

The signal transmission will be interfered, drop or disappeared by crowd, distance, or electronic products during the performance. The antenna booster is suggested to use for enhancing the signal transmission quality and stability.



AD-214 Antenna Divider

- Efficient use on managing multiple antenna into a pair of antennas.
- 4 pairs of antenna RF output are located at rear panel.
- Built-in RF amplifier can compensate the signal split losses.
- Supply DC power up to 4 receivers.
- BNC type connector.

AD-214 Antenna Divider	
Frequency Range	500MHz ~ 1GHz
Gain Range	3dB ± 0.5dB
Input Impedance	50Ω
Output Impedance	50Ω
Power Input	DC12 ~ 18V, 5A Switching Power Supply, 1DC Input, 4DC Output
RF Output Terminal	2 RF Inputs and 2 RF Outputs divided into 8 RF Outputs
Antenna DC Output	DC 12V (120mA) for EA antenna booster connection
RF connector	BNC Female Type
Overall Dimensions(mm) WxHxD	420 x 180 x 44



AS-1 Antenna Splitter

- Split an incoming signal into two outgoing signals.
- It also can combine two incoming signals into one outgoing signal.
- BNC type connector.

AS-1 Antenna Splitter	
Frequency Range	500MHz ~ 1GHz
Input Impedance	50Ω
Isolation	12dB
Loss	< 4.5dB
RF connector	BNC Female Type
Overall Dimensions(mm) WxHxD	40 x 32 x 28



AB-8A Antenna Booster

- Enhancing the receiving sensitivity and stability on application.
- RF amplifier can compensate for the RF signal losses extension cable up to 9dB.
- BNC type connector.

AB-8A Antenna Booster	
Frequency Range	500MHz ~ 1GHz
Gain Range	9dB ± 1dB
Impedance	50Ω
Power Supply	DC8V
Overall Dimensions(mm) WxHxD	80 x 26 x 26

MASCOT

Antenna System

The various accessories are offered for different install application.



AH-1 Antenna Holder

- Easily assembled on the microphone stand or mounted on the wall.
- Compatible with AB-8A.

AH-1 Antenna Holder	
Screw Adapter	5/8" Female Type
Overall Dimensions(mm) WxHxD	80 x 26 x 26



AB-8C Ceiling Mounted Antenna Booster

- Invisible design and easily to be fixed directly to the ceiling.
- Built-in 9dB gain is suitable for installations required to extend the operating range, like supermarket or shopping center.

AB-8C Ceiling Mounted Antenna Booster	
Frequency Range	500MHz ~ 1GHz
Gain Range	9dB ± 1dB
Antenna Impedance	50Ω
Max. Ceiling Thickness	15mm
Mounting Hole Ø	38mm
Connector	BNC
Input Voltage	8V DC 80mA (via coaxial cable)



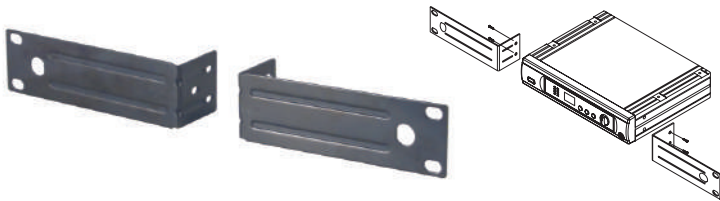
BB-50 / BB-100 / BB-1000 Extension Cable

- Extension cable with BNC male connector for connection with receiver to booster, splitter or divider.
- Customized extension cable in different length is also available.

Extension Cable	
Cable	RG58A / U
Length	BB-50: 50cm BB-100: 100cm BB-1000: 10M

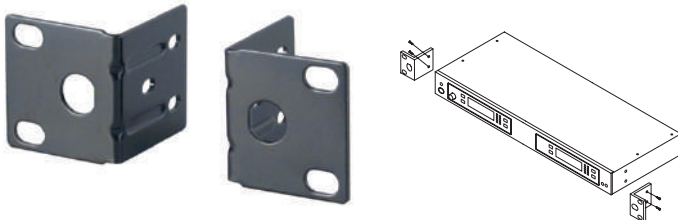
Accessories

We offer a series of accessories for optional purchase.



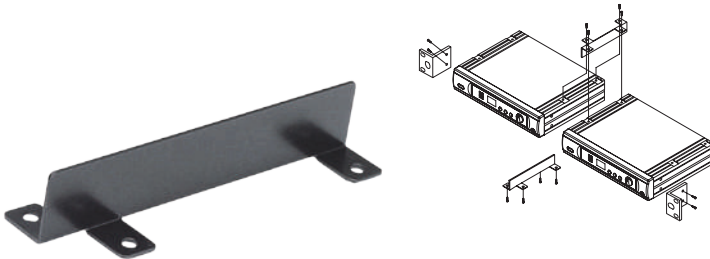
L3 Long L Type Metal Rack

- 2 pieces L3 to mount a 1/2 rack size receivers in a 19" rack.



L4 Short L Type Metal Rack

- 2 pieces L4 to mount a 1/2 rack size receivers in a 19" rack.



C2 Connecting Plate

- 2 pieces L4 with 2 pieces C2 can combine two 1/2 rack size receivers in a 19" rack.



PE Carry Case

- Convenient and durable case.
- Suitable for package of a half 19" wireless microphone set.

MASCOT

Accessories

We offer a series of accessories for optional purchase.



CB-401 Guitar Cable

- 3.5Ø screw type plug / 6.3Ø plug.
- Bodypack transmitter to guitar, instruments or other recording equipment.



CB-402 Guitar Cable

- 3pin mini XLR TA3F Female connector / 6.3Ø plug.
- Bodypack transmitter to guitar, instruments or other recording equipment.



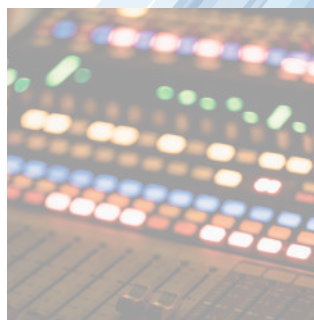
CB-402M Guitar Cable

- 3pin mini XLR TA3F Female connector / 6.3Ø metal plug.
- Bodypack transmitter to guitar, instruments or other recording equipment.



H-12 Microphone Holder

- Suitable for handheld microphone.



MASCOT

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