

A pair of black over-ear headphones with a red accent on the ear cup is positioned in the upper left. A vintage-style silver microphone with a black grille and a red logo is in the lower right. The background is black.

# Microphones & Headphones

**PROEL** 



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# Music is **kin**

s a safe  
d of high.

(Jimi Hendrix)





# LIVE MICROPHONES

With their robustness, reliability and affordable performance PROEL's Live Microphones provides the perfect choice for different kind of vocalists and different styles. The dynamic models offer a lower sensibility to the environment noise and a better responsiveness to high pressure levels, while condenser models provide ultimate sound quality.







# DM580LC

- Dynamic Cardioid Microphone
- Particularly tailored for vocal applications
- Uniform cardioid pattern for isolating the main sound source and avoiding feedbacks
- Durable metal construction
- On/off switch for on-stage control
- Steel mesh ball grille with integral filter for reducing wind noise
- 4.5 mt XLR cable included

Type	Moving coil
Polar Pattern	Cardioid
Frequency Response	70 - 14000 Hz
Sensitivity	-55 dB
Max Spl for 1% THD	135 dB
S/N Ratio	> 74 dB
Impedance	600 Ω
Connector	3 pin XLR male
Weight	275 g
Dimensions	H 195 x Ø 50 mm



# DM226

- Vocal microphone with dynamic capsule
- Cardioid Polar Pattern
- Exceptional transparency at mid-bass frequencies
- Flat and extended Frequency Response
- Ergonomic barrel design

Type	Moving coil
Polar Pattern	Cardioid
Frequency Response	50 - 15000 Hz
Sensitivity	-53 dB
Max Spl for 1% THD	135 dB
Impedance	600 Ω
Connector	3 pin XLR male
Weight	360 g
Dimensions	H 180 x Ø 45 mm





# DM220

- Vocal microphone with dynamic capsule
- Cardioid Polar Pattern
- Flat and extended Frequency Response
- ON/OFF switch
- Exceptional transparency at mid-bass frequencies
- Ergonomic barrel design

Type	Moving coil
Polar Pattern	Cardioid
Frequency Response	50 - 15000 Hz
Sensitivity	-53 dB
Max Spl for 1% THD	135 dB
Impedance	600 $\Omega$
Connector	3 pin XLR male
Weight	360 g
Dimensions	H 180 x $\varnothing$ 45 mm



# DM800

- Dynamic Capsule
- Cardioid Polar Pattern
- Flat and extended Frequency Response
- ON/OFF switch
- Designed for optimal warmth and clarity
- Excellently accurate pickup pattern provides optimal gain before feedback
- 4.5 mt XLR cable included

Type	Moving coil
Polar Pattern	Cardioid
Frequency Response	60 - 14000 Hz
Sensitivity	-53 dB
Max Spl for 1% THD	130 dB
Impedance	600 $\Omega$
Connector	3 pin XLR male
Weight	360 g
Dimensions	H 180 x $\varnothing$ 45 mm



# DM800KIT

- Kit made of three DM800 dynamic microphones
- Includes three microphone clamps
- ABS carrying and storage case

Type	Moving coil
Polar Pattern	Cardioid
Frequency Response	60 - 14000 Hz
Sensitivity	-53 dB
Max Spl for 1% THD	130 dB
Impedance	600 Ω
Connector	3 pin XLR male
Weight	360 g
Dimensions	H 180 x Ø 45 mm



# LDF320

- Permanently polarized condenser microphone
- Cardioid Polar Pattern
- High gain with clear and natural sound
- Light-weight and rugged construction
- Designed for overhead applications in churches and concert halls
- 4.5 mt XLR cable included

Type	Back electret condenser
Polar Pattern	Cardioid
Frequency Response	20 - 20000 Hz
Sensitivity	-40 dB
Max Spl for 1% THD	130 dB
S/N Ratio	> 65 dB
Impedance	75 Ω
Power Requirement	+48 vdc Phantom, 1,5 Volt battery
Connector	3 pin XLR male
Weight	110 g
Dimensions	H 170 x Ø 30 mm

# HI-GRADE MICROPHONES

Our Hi-Grade Series microphones offer a high-quality sound reproduction, capturing every timbre nuance even in the most critical applications. The electro-acoustic design of the capsules, engineered to deliver the highest tone quality, and the sturdy construction meet even the most complex requirements.





# DM580

- Professional microphone with Humbucking dynamic capsule
- High applicable SPL
- Cardioid Polar Pattern and reduced sensitivity for the use with high stage monitor levels
- Frequency Response and natural bass roll-off for close vocal miking and reducing handling noise
- Particularly tailored for female vocal applications

Type	Moving coil
Polar Pattern	Cardioid
Frequency Response	50 - 16000 Hz
Sensitivity	-52 dBv
Max Spl for 1% THD	137 dB
Impedance	400 Ω
Connector	3 Pin Male XLR
Weight	301 g
Dimensions	H 164 x Ø 51 mm



# DM585

- High-sensitivity, professional microphone with dynamic capsule
- High applicable SPL
- Cardioid Polar Pattern particularly resistant to feedback
- Particularly tailored for vocal applications

Type	Moving coil
Polar Pattern	Cardioid
Frequency Response	50 - 17000 Hz
Sensitivity	-52 dB
Max Spl for 1% THD	135 dB
Impedance	400 Ω
Connector	3 pin XLR male
Weight	320 g
Dimensions	H 180 x Ø 44 mm



# DM55V2

NEW

- Satin chrome-plated die-cast casing for pure vintage look and feel
- Cardioid Polar Pattern
- Frequency Response tailored for vocals and instrumental music
- Internal shock mount for reduced handling noise
- On-off switch
- Self-tensioning swivel mount
- Custom design

Type	Moving coil
Polar Pattern	Cardioid
Frequency Response	50 - 16000 Hz
Sensitivity	-52 dB
Max Spl for 1% THD	130 dB
Impedance	300 $\Omega$
Connector	3 pin XLR male
Weight	485 g
Dimensions	H 185 x L 56 x W 67 mm

# RECORDING MICROPHONES

Thanks to the very natural acoustic pattern and to the capability to fit the character of different sources, the comprehensive range of PROEL'S recording microphones offers the right miking solution for many kind of instrument and for different locations, from professional studios to home recording.







# CM12

NEW

- Ultra-thin, 3 micron, 24 karat gold-layered, Mylar® diaphragm for excellent transient response
- Exceptional low-frequency reproduction
- Cardioid Polar Pattern
- Extremely low self noise for critical studio vocal recording
- Uniform polar response
- High output level
- Exceptional transparency and natural sound reproduction

Type	Condenser single 1" diaphragm
Polar Pattern	Uni-Directional
Frequency Response	30 - 18000 kHz
Sensitivity	-36 dB
Max Spl for 1% THD	136 dB
S/N Ratio	76 dB
Impedance	250 Ω
Recommended Load Impedance	1000 Ω
Power Requirement	+48 vdc Phantom
Connector	3 pin male XLR
Weight	317 g
Dimensions	H 148 x Ø 56 mm
Colour	Black
Accessories	Microphone holder



# CM200

NEW

- Ultra-thin, 2.5 micron, 24 karat gold-layered, low mass Mylar® diaphragm for superior transient response
- Extended Frequency Response
- Cardioid Polar Pattern
- Can withstand high sound pressure level (SPL)
- The low self-noise makes it ideal for recording instruments

Type	Condenser single 0,5" gold-layered diaphragm
Polar Pattern	Uni-Directional
Frequency Response	10 - 20000 Hz
Sensitivity	-40 dB
Max Spl for 1% THD	135 dB
Self Noise	< 15 dB
S/N Ratio	79 dB
Impedance	250 Ω
Recommended Load Impedance	1000 Ω
Power Requirement	+48 vdc Phantom
Connector	3 pin male XLR
Weight	435 g
Dimensions	H 135 x Ø 25 mm
Colour	Black
Accessories	Microphone holder





USB CONNECTOR



# CM12USB

**NEW**

- Ultra-thin, gold-layered, low-mass, Mylar® diaphragm for excellent transient response
- High quality A/D converter with 16-bit, 48kHz resolution
- Switchable high pass filter and -10dB pad
- Stereo 1/8" headphone jack for no latency monitoring
- Headphone volume control with microphone mute switch
- Plugs directly into any computer with a USB input, no drivers required
- Supplied with USB cable

Type	Condenser single 1" diaphragm
Polar Pattern	Uni-Directional
Frequency Response	30 - 18000 Hz
Sensitivity	-40 dB
Max Spl for 1% THD	130 dB
S/N Ratio	> -90 dBA
Volume Control	Microphone and Headphone
Power Requirement	Power from USB port
Digital Output Interface	USB 2.0
Resolution	16-bit
Sampling Rate	44.1 - 48 kHz
Headphone Power Output (RMS)	59 mW
Weight	325 g
Dimensions	H 148 x Ø 56 mm
Colour	Black
Operating system	PC Win8\Win7\Vista\XP; Mac OSX 10.6.4 or higher



USB CONNECTOR

# DM581USB

- XLR and USB connections
- Integrated A/D converter
- Metal body
- Driver installation not required
- Supplied with USB cable

Type	Moving coil
Polar Pattern	Cardioid
Frequency Response	60 - 14000 Hz
Sensitivity	-53 dBv Analog output -28 dBv Digital output
Max Spl for 1% THD	120 dB
Impedance	600 Ω
Power Requirement	USB Port
Digital Output Interface	USB 2.0
Resolution	16-bit
Sampling Rate	44.1/48 kHz
Connector	3 pin XLR
Weight	290 g
Dimensions	H 185 x Ø 51 mm
Operating System	PC Win8\Win7\Vista\XP; Mac OSX 10.6.4 or higher

# MIC62USB NEW

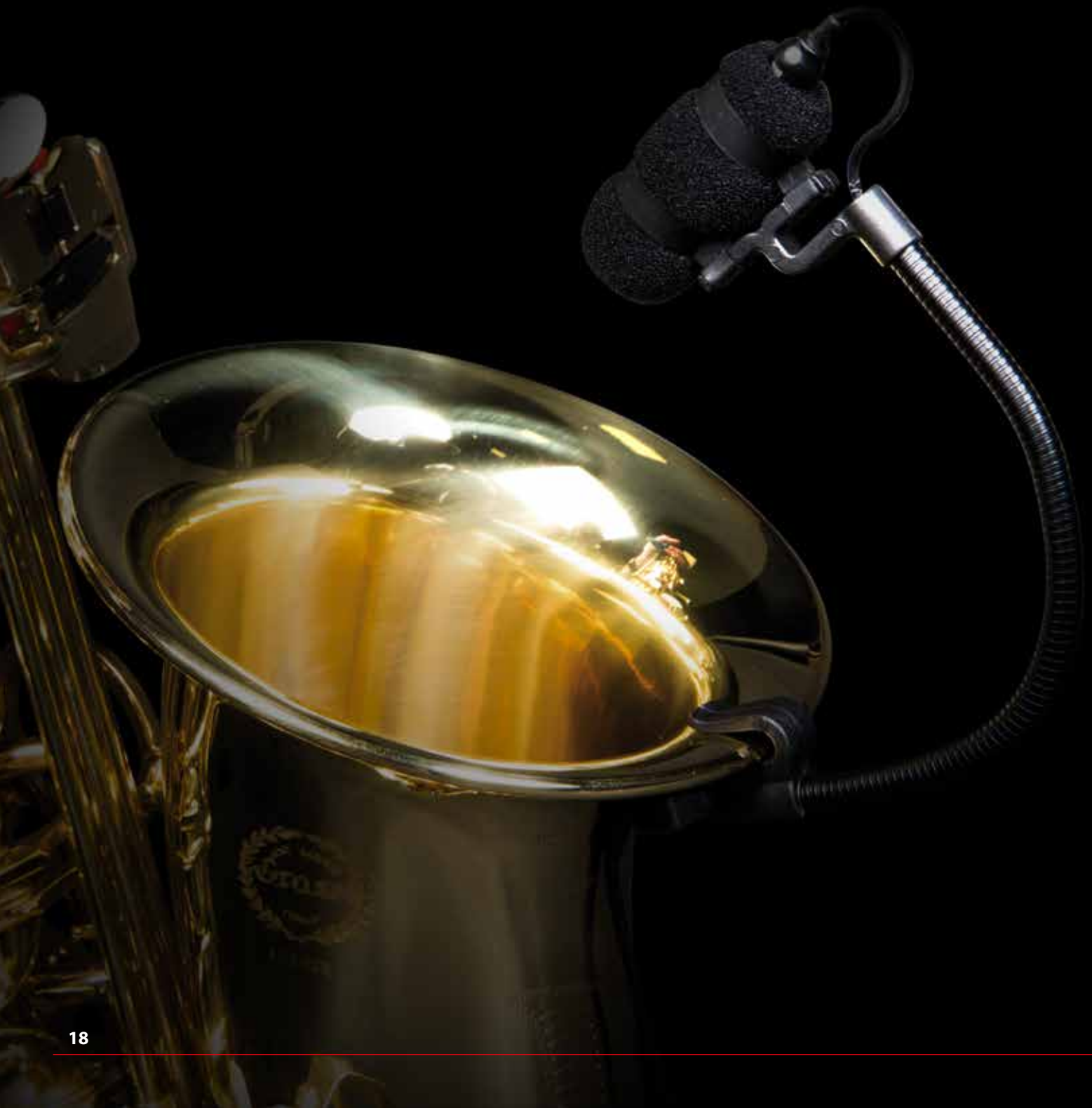


- Low-profile design for unobtrusive appearance
- Simple plug-and-play design, no PC drivers needed
- "Mute On/Off" button with green/red LED indicator light
- Powered by connecting the USB-4B into your PC
- Standard USB cable included
- Perfect for high-quality recordings of vocals and instruments as well as podcasting and web conference

Type	Back electred condenser
Polar Pattern	Uni-Directional
Frequency Response	50 - 18000 Hz
Sensitivity	-40 dB
Max Spl for 1% THD	127 dB
Power Requirement	Power from USB port
Digital Output Interface	USB 2.0
Resolution	16-bit
Sampling Rate	44.1 - 48 kHz
Weight	146 g
Dimensions	W 85 x L 65 mm
Colour	Black
Operating System	PC Win8\Win7\Vista\XP; Mac OSX 10.6.4 or higher

# INSTRUMENT MICROPHONES

Picking up correctly different instruments on the stage without feedback or interferences requires specifically designed microphones. PROEL offers different models of high-quality, reliable stage microphones tailored for specific instruments, to be used wired or in a wireless setup.





# DM1

- Professional dynamic drum microphone
- Cardioid Polar Pattern for an accurate sound reproduction without unnecessary back ground noise
- Frequency Response tailored for percussions, snare drums, toms and other instruments
- High gain before feedback
- Internal shock mount for reduced handling noise
- Compact design reduces stage clutter
- Hardened steel mesh grille

Type	Dynamic moving coil
Polar Pattern	Cardioid
Frequency Response	50 - 16000 Hz
Sensitivity	-55 dB
Max Spl for 1% THD	135 dB
Impedance	600 $\Omega$
Connector	XLR
Weight	145 g
Dimensions	L 85 x $\varnothing$ 45 mm
Colour	Black
Accessories	Drum support



# DM12

- Professional dynamic instrument microphone
- Super-cardioid Polar Pattern
- Fast transient response
- Low frequency extension
- Designed to be used with bass drums, bass guitar cabs, tubas and other low frequency instruments
- Internal shock mount for reduced handling noise
- Durable metal construction with hardened steel mesh grille

Type	Moving coil
Polar Pattern	Super-cardioid
Frequency Response	50 - 16000 Hz
Sensitivity	-58 dB
Max Spl for 1% THD	152 dB (calculated)
S/N Ratio	> 65 dB
Impedance	400 $\Omega$
Connector	3 pin XLR male
Weight	320 g
Dimensions	L 105 x $\varnothing$ 65 mm



# CM602

- Permanently polarized condenser capsule (back electret)
- Cardioid Polar Pattern
- Light and rugged construction
- High applicable SPL for close miking on stage
- Particularly suited as overhead for drums and percussion, for the hi-hat, wood wind and brass instruments, guitar

Type	Back electret condenser
Polar Pattern	Uni-directional
Frequency Response	50 - 18000 Hz
Sensitivity	-45 dB
Max Spl for 1% THD	130 dB
Self noise	< 22 dB
S/N Ratio	> 70 dB
Impedance	250 Ω
Recommended Load Impedance	1000 Ω
Power Requirement	+48 vdc Phantom
Connector	3 pin Male XLR
Weight	240 g
Dimensions	H 135 x Ø 23 mm

Package for miking up a  
8-piece drumset  
includes ABS carrying and storage case



## DMH5XL

- 5pcs drum kit
- Includes:
  - DM12 1pc
  - DM1 3pcs
  - CM602 1pcs
  - APM47 3pcs
- ABS carrying case

## DMH8XL

- 8pcs drum kit
- Includes:
  - DM12 1pc
  - DM1 4pcs
  - CM602 3pcs
  - APM47 4pcs
- ABS carrying case



# HCS20

- Miniature condenser microphone
- 8 mm permanently polarized condenser capsule
- Cardioid Polar Pattern
- Phantom adapter
- Built-in windscreen (additional external windscreen included)
- Designed for on-stage use with instruments, specifically saxophone, clarinet, trombone, trumpet

Type	Back electret condenser
Polar Pattern	Cardioid
Frequency Response	50 - 16000 Hz
Sensitivity	-45dB
Max Spl for 1% THD	130 dB
S/N Ratio	> 70 dB
Impedance	2000 $\Omega$ $\pm$ 30%
Power Requirement	+48 vdc Phantom
Cable	L 1000 x $\varnothing$ 2 mm
Colour	Black
Accessories	Windscreen



**HCS30** (HCSB and HCSC included)

# HCS30

- Miniature condenser clip microphone
- Cardioid Polar Pattern
- High gain before feedback
- Open and natural sound
- Wireless compatible
- Designed to be used with most acoustic instruments
- Available clip mounts for different acoustic instruments (optional):  
HCSA: cello - HCSD: guitar

Type	Back electret condenser
Polar Pattern	Cardioid
Frequency Response	50 - 16000 Hz
Sensitivity	-45 dB
Max Spl for 1% THD	130 dB
S/N Ratio	> 70 dB
Impedance	2000 $\Omega$ $\pm$ 30%
Power Requirement	+48 vdc Phantom
Cable	L 1000 x $\varnothing$ 2 mm
Colour	Black
Accessories	Windscreen



**HCSA**  
Clip mount for cello

**HCSD**  
Clip mount for guitar



# INSTALLATION **MICROPHONES**

PROEL installation microphones have been designed for installed sound applications, where dependability and durability are the main requirements. They are available in a variety of boundary, podium and desktop models.







# PA MG300

- Permanently polarized condenser capsule
- Unidirectional polar pattern
- High-pass filter
- 30 cm gooseneck with dual flexible section
- Foam anti-pop screen included

Type	Back Electret Condenser
Polar Pattern	Uni-Directional
Frequency Response	150 - 18000 Hz
Sensitivity	-45 dB $\pm$ 3 dB
Max Spl for 1% THD	132 dB
Recommended Load Impedance	1000 $\Omega$
Power Requirement	+48 vdc
Connector	3 pin male XLR
Weight	118 g
Dimension	H 300 mm



# MGN24

- Gooseneck condenser microphone
- Cardioid Polar Pattern
- High-pass filter
- 50cm gooseneck with two flexible sections
- Ideal applications include conference rooms, altars and podiums

Type	Condenser single 1" diaphragm
Polar Pattern	Uni-Directional
Frequency Response	30 - 18000 Hz
Sensitivity	-36 dB
Max Spl for 1% THD	130 dB
S/N Ratio	76 dB
Impedance	250 $\Omega$
Recommended Load Impedance	1000 $\Omega$
Power Requirement	+48 vdc Phantom
Connector	3 pin male XLR
Weight	317 g
Dimensions	L 498 x $\varnothing$ 25 mm
Colour	Black
Accessories	Microphone holder



# PA BMG2

- Die-cast zinc base
- Uni-directional Polar Pattern
- Phantom power supply
- Flexible stem
- Ring light
- On/off switch

<b>Type</b>	Condenser single 0,5" gold diaphragm
<b>Polar Pattern</b>	Uni-Directional
<b>Frequency Response</b>	20 - 20000 Hz
<b>Sensitivity</b>	-40 dB
<b>Max Spl for 1% THD</b>	135 dB
<b>S/N Ratio</b>	79 dB
<b>Impedance</b>	250 $\Omega$
<b>Recommended Load Impedance</b>	1000 $\Omega$
<b>Power Requirement</b>	+48 vdc Phantom
<b>Connector</b>	3 pin male XLR
<b>Weight</b>	435 g
<b>Dimensions</b>	L 480 x $\varnothing$ 25 mm
<b>Colour</b>	Black
<b>Accessories</b>	Microphone holder

# PA BM103T

- Universal desktop base for gooseneck microphones
- Scratch-proof plastic housing
- ON/OFF button
- Requires phantom power
- Can be used with any PROEL mixer or integrated amplifier
- XLR-3P input connector and standard XLR output connector





# PA MIC62W

- Low-profile condenser microphone
- Permanently polarized condenser capsule
- Hemispherical directional Polar Pattern
- Integral phantom power adapter
- Recommended for conference tables, podiums, ticket windows and theater stages

Type	Back electret condenser
Polar Pattern	Cardioid
Frequency Response	60 - 16000 Hz
Sensitivity	-48 dB
Impedance	600 $\Omega$
Max Spl 1% THD	115 dB
S/N Ratio	67 dB
Power Requirement	+48 vdc Phantom
Weight	250 g (without cable)
Dimensions	H 20 x L 75 x W 100 mm
Cable	10 m
Colour	White



# MFC81

- Shotgun style condenser microphone
- Permanently polarized condenser capsule
- Switchable cardioid / uni-directional Polar Pattern
- Switchable sensitivity for shotgun or handheld applications (switch OFF/ NORMAL/TELE)
- Phantom / battery powering
- Combines the advantages of a half shotgun with those of a handheld interview microphone

Type	Back electret
Polar Pattern	Cardioid / Uni-directional
Frequency Response	100 - 20000 Hz
Sensitivity	-45 dBv; -38 dBv
Max Spl for 1% THD	130 dB
Impedance	1000 $\Omega$
Recommended Load Impedance	2300 $\Omega$
Power Requirement	+48 vdc Phantom; 1,5 Volt battery
Connector	3 Pin Male XLR
Weight	120 g
Dimensions	H 360 x $\varnothing$ 21 mm

# CONFERENCE **SYSTEMS**





# WCS1000

**NEW**

The WCS1000 Wireless Conference System provides advanced technology, ease of use and flexibility in a full modular setup. As a buyer or installer, if you are looking for reliability, intuitive operation and versatility WCS System is the choice for you.

# WCS1000C

- PLL UHF Transmitter
- Uni-directional condenser microphone
- 3 function Key to set the microphone state
- Microphone On/Off Key
- 3 x 1.5V battery power supply
- Up to 50mt RF range



# WCS1000D

- PLL UHF Transmitter
- Uni-directional condenser microphone
- 2 function Key to set the microphone state
- Microphone On/Off Key
- 3 x 1.5V battery power supply
- Up to 50mt RF range



## AUDIO CHANNEL

Transmission Method	UHF Wireless (one way)
Audio Channel	5 (1 chairman, 4 delegate)
Carrier Frequency Band	740 MHz~764 MHz
Modulation Method	FM
Maximum Modulation	60 kHz
Radiant Power	≤ +9 dBm
Frequency Deviation	< 0.002
Frequency Response	50 - 15000 Hz
S/N Ratio	> 85 dB
THD	< 0.8 %

## DATA CONTROL CHANNEL

Transmission Method	Wireless (two-way)
Data Channel	16
Frequency Range	433.4MHz~434.4MHz
Modulation Method	FSK
Sensitivity	-100 dBm
Transmission Consumption	≤ 6 dBm
Communication Rate	100 KBPS
Frequency Deviation	< 0.002

## SYSTEM

Power Supply	DC 3.7~4.5V
Signal Covering Range	Radius 60 meters
Consumption Rating	Standby: ≤ 360 mW
	Speaking: ≤ 630 mW
Operating Temperature Range	-10° - 40°C
Dimensions	H 58 x L 178 x W 115 mm
Weight	700 g

## AUDIO CHANNEL

Transmission Method	UHF Wireless (one way)
Audio Channel	5 (1 chairman, 4 delegate)
Carrier Frequency Band	740 MHz~764 MHz
Modulation Method	FM
Maximum Modulation	60 kHz
Radiant Power	≤ +9 dBm
Frequency Deviation	< 0.002
Frequency Response	50 - 15000 Hz
S/N Ratio	> 85 dB
THD	< 0.8 %

## DATA CONTROL CHANNEL

Transmission Method	Wireless (two-way)
Data Channel	16
Frequency Range	433.4MHz~434.4MHz
Modulation Method	FSK
Sensitivity	-100 dBm
Transmission Consumption	≤ 6 dBm
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## SYSTEM

Power Supply	DC 3.7~4.5V
Signal Covering Range	Radius 60 meters
Consumption Rating	Standby: ≤ 360 mW
	Speaking: ≤ 630 mW
Operating Temperature Range	-10° - 40°C
Dimensions	H 58 x L 178 x W 115 mm
Weight	700 g



# WCS1000RX

- PLL UHF Receiver
- Three operating modes: FIFO, LIMIT MODE, CHAIRMAN ONLY
- LCD display
- Individual level control for each channel
- Connection interface for external video processor
- Balanced outputs
- 19" rack-mount metal case

## AUDIO CHANNEL

Transmission method	UHF Wireless (one way)
Audio Channel	5 (1 chairman, 4 delegate)
Carrier Frequency Band	740 MHz~764 MHz
Modulation Method	FM
Receiving Sensitivity	-100 dBm
Audio Gain	≤ 20
Frequency Response	50 ~15000 Hz
S/N Ratio	> 85 dB
THD	< 0.8 %

## DATA CONTROL CHANNEL

Transmission Method	Wireless (two-way)
Data Channel	16
Frequency Range	433.4 MHz~434.4 MHz
Modulation Method	FSK
Sensitivity	-100 dBm
Transmission Consumption	≤ 6 dBm
Communication Rate	100 KBPS
Frequency Deviation	< 0.002

## SYSTEM

Power Supply	DC12~15V ≤ 1A
Signal Covering Range	Radius 60 m
Consumption Rating	7 W
Operating Temperature Range	-10° ~ 40°C
Dimensions	H 85 x L 485 x W 355 mm
Weight	7000 g

# WCS1000CH

- Able to charge up to 16pcs rechargeable lithium batteries
- Universal Power Requirement AC110 ~230V
- Electronic circuit for intelligent charging
- Retractable handle and wheels for transport

Items	Parameter
<b>Power Supply</b>	110V-240V/50 Hz~60 Hz
<b>Consumption Rating</b>	200 W
<b>Charge Quantity</b>	16
<b>MAX Charging Current of Each Unit</b>	700 mA
<b>Charging Time</b>	About 8~10 hours
<b>Charging Status</b>	Red LED flashing - Charging, Green LED - Full Charged
<b>Operating Temperature Range</b>	0° ~ 40°C
<b>Dimensions</b>	H 175 x L 620 x W 370 mm
<b>Weight</b>	9000 g





# WIRELESS MICROPHONES

PROEL offers a wide range of wireless microphone, from single-channel VHF models to multiple-channel PLL UHF and 2.4 GHz digital systems, all of them available with handheld and bodypack transmitter and also with a combination of both. Such a wide choice of models ensures that you can find the perfect combination of performance and value for virtually any kind of application, ranging for single-source simple speech setup to large on-stage multi-channel systems.



# RMW1000

- PLL UHF Wireless Microphone System
- Available frequency ranges: 638 - 662 MHz • 606 - 630 MHz
- 50 meter / 160 feet range
- 50 Hz - 15 kHz Frequency Response
- -105 dB signal / noise ratio
- 99 selectable channels
- Diversity antenna
- Up to 5 systems usable in the same location depending on the circumstances
- Automatic channel scan
- IR sync
- ABS carrying and storage case



	RMW1M
Transmitter Type	PLL synthesized
Frequency Range	UHF
RF Frequency Stability	0,01 %
Modulation Method	FM (F3E)
Audio Frequency Response	50 - 15000 Hz
THD	< 1 %
Dynamic Range	≥ 100 dB
S/N Ratio	≥ 90 dB
RF Output Power	< 10 mW
Current Drain	160 mA
Tone Pilot Frequency	30 ~ 33 kHz
Mic Capsule	Dynamic
Power Requirement	2x 1,5 Volt AA type
Battery Life	8 hours
Dimensions	H 250 x Ø 35 mm
Weight	290 g

	RMW1000
Receiver Type	PLL synthesized
Frequency Range	UHF
RF Frequency Stability	0,01 %
Modulation Method	FM (F3E)
Audio Frequency Response	50 - 15000 Hz
THD	< 0,8 %
Dynamic Range	≥ 100 dB
Sensitivity	-105 dB
Output Level	-13 dBV Balanced -2 dBV unbalanced ¼ jack
Power Requirement	+12 - 15 vdc 300 mA
Dimensions	H 42 x L 197 x W 134 mm
Weight	820 g

	RMW1H
Transmitter Type	PLL synthesized
Frequency Range	UHF
RF Frequency Stability	0,01 %
Modulation Method	FM (F3E)
Audio Frequency Response	50 - 15000 Hz
THD	< 1 %
Dynamic Range	≥ 100 dB
S/N Ratio	≥ 90 dB
RF Output Power	< 10 mW
Current Drain	160 mA
Tone Pilot Frequency	30 ~ 33 kHz
Microphone Condenser	Headset
Power Requirement	2x 1,5 Volt AA type
Battery Life	8 hours
Dimensions	H 108 x L 64 x W 19 mm
Weight	100 g

## RMW1000 SYSTEMS



### RMW1000M

Receiver RMW1000  
1x Transmitter RMW1M



### RMW1000H

Receiver RMW1000  
1x Bodypack RMW1H



# RMW821

**NEW**



- UHF Dual Band 821 - 832 and 863 - 865 MHz, 13MHz Band
- Frequencies selectable in steps of 25 kHz
- Up to 50 mt /100 feet range (open space)
- Ir Synchronization
- True diversity receiver
- Up to 6 systems usable in the same location depending on the circumstances
- ABS carrying and storage case



	WM8M
<b>Carrier Frequency Range</b>	821 - 832 MHz and 863 - 865 MHz
<b>Modulation Method</b>	FM (F3E)
<b>Transmission Distance</b>	Up to 50 m (open space)
<b>RF Frequency Stability</b>	0,002 %
<b>Audio Frequency Response</b>	50 - 15000 Hz
<b>RF Max Deviation</b>	±50 kHz
<b>Spurious Emission</b>	Under limits EN300422
<b>RF Output Power</b>	< 10dBm Max E <sub>rp</sub> (Effective Radiated Power)
<b>Mic Capsule</b>	Dynamic
<b>Polar Pattern</b>	Cardioid
<b>Power Requirement</b>	2x1,5Volt AA type
<b>Battery Life</b>	Up to 8 hours
<b>Dimensions</b>	H 260 x Ø 45 mm

	WM821
<b>Receiver Type</b>	UHF Band
<b>Frequency Range</b>	821 - 832 MHz and 863 - 865 MHz
<b>RF Frequency Stability</b>	0,002 %
<b>Modulation Method</b>	FM (F3E)
<b>RF Image / Spurious Rej</b>	> 70 dBm
<b>RF Interference Rej</b>	> 70 dBm
<b>Sensitivity</b>	-105 dB
<b>Audio Frequency Response</b>	60 - 18000 Hz
<b>THD</b>	< 1 %
<b>Dynamic Range</b>	> 90 dB
<b>S/N Ratio</b>	> 100 dB
<b>Power Requirement</b>	+12 - 15 vdc 500mA
<b>Output Connector</b>	Unbalanced ¼" jack - XLR 3 balanced
<b>Dimensions</b>	H 45 x L 210 x W 160 mm

	WM8B
<b>Carrier Frequency Range</b>	821 - 832 MHz and 863 - 865 MHz
<b>Modulation Method</b>	FM (F3E)
<b>Transmission Distance</b>	Up to 50 m (open space)
<b>RF Frequency Stability</b>	0,002 %
<b>Audio Frequency Response</b>	50 - 15000 Hz
<b>RF Max Deviation</b>	±50 kHz
<b>Spurious Emission</b>	Under limits EN300422
<b>RF Output Power</b>	< 10 dBm Max E <sub>rp</sub> (Effective Radiated Power)
<b>Mic Capsule Headset</b>	Back electret condenser
<b>Polar Pattern</b>	Onidirectional
<b>Power Requirement</b>	2x1,5Volt AA type
<b>Battery Life</b>	Up to 8 hours
<b>Dimensions</b>	H 73 x L 58 x W 22 mm

## RMW821 SYSTEMS



### RMW821M

Receiver WM821  
1x Transmitter WM8M



### RMW821H

Receiver WM821  
1x Bodypack WM8B



# WM240



- Wireless Microphone System
- 2.4 GHz ISM range
- GFSK digital modulation / demodulation
- Digital Diversity
- Up to 25 meters / 100 feet range
- 50 - 15000 Hz Frequency Response
- Low-profile desktop receiver with foldable antenna
- Intelligent frequency hopping
- ABS carrying and storage case
- Up to 3 systems usable in the same location  
*depending on the circumstances*



	WM24M
Frequency Range	2.404 - 2.476 GHz
RF Output Power	10 dBm Max Effective Radiated Power
Transmission Distance	Up to 25 m (open space)
Audio Frequency Response	50 - 15000 Hz (16bit -38.4 kHz)
THD	< 0.05 % @ 1 kHz
S/N Ratio	> 89 dB
Transmission Delay	18 ms
Power Requirement	2x1,5Volt AA type
Battery Life	Up to 20 hours
Dimensions	H 287 x Ø 47 mm

	WM240
Frequency Range	2.404 - 2.476 GHz
Sensitivity	-78 dB
Audio Frequency Response	50 - 15000 Hz (16bit -38.4 kHz)
THD	< 0.05 % @ 1 kHz
S/N Ratio	> 89 dB
Transmission Delay	18 ms
Output Connector	Unbalanced ¼" jack
Power Requirement	DC 12V 200 mA
Dimensions	H 48x L 215x W 115 mm

	WM24B
Frequency Range	2.404 - 2.476 GHz
RF Output Power	10 dBm Max Effective Radiated Power
Transmission Distance	Up to 25 m (open space)
Audio Frequency Response	50 - 15000 Hz (16bit -38.4 kHz)
THD	< 0.05 % @ 1 kHz
S/N Ratio	> 89 dB
Transmission Delay	18 ms
Power Requirement	2x1,5Volt AA type
Battery Life	Up to 20 hours
Dimensions	H85xL 62 xW22 mm

## WM240 SYSTEMS



**WM240M**  
Receiver WM240  
1x Transmitter WM24M



**WM240B**  
Receiver WM240  
1x Bodypack WM24B



# WM600

- PLL UHF Wireless Microphone System
- 863 - 865 MHz frequency range
- 30 meter / 100 feet range
- 50 Hz - 15 kHz Frequency Response
- -105 dB signal / noise ratio
- Low-profile desktop receiver with two foldable antennas
- 4 selectable frequency channels
- Up to 4 systems usable in the same location
- ABS carrying and storage case



	WM6M
RF Frequency Band	863~865 MHz
Frequency Stability	0,00002
Modulation Method	FM (F3E)
RF Max Deviation	±40 kHz
Audio Frequency Response	50 - 15000 Hz
Spurious Emission	Under limits EN 300422
RF Output Power	< 10 dBm
Power Requirement	2 x 1,5 Volt AA type
Dimensions	H 235 x Ø 47 mm

	WM600
Receiver Type	PLL UHF 4 channel
Frequency Range	UHF 863~865 MHz
RF Frequency Stability	0,0029%
Modulation Method	FM (F3E)
RF Image / Spurious Rej	> 70 dB
RF Interference Rej	> 70 dB
Sensitivity	-105 dB
Audio Frequency Response	50 - 15000 Hz
THD	< 1 %
Dynamic Range	> 100 dB
S/N Ratio	> 105 dB
Output Connectors	Balanced XLR Unbalanced ¼" jack
Power Requirement	DC 13-15V DC / 200 mA
Dimensions	H 45 x L 175 x W 135 mm

	WM6H
RF Frequency Band	863~865 MHz
Frequency Stability	0,00002
Modulation Method	FM (F3E)
RF Max Deviation	±40 kHz
Audio Frequency Response	50 - 15000 Hz
Spurious Emission	Under limits EN 300422
RF Output Power	< 10 dBm
Power Requirement	2 x 1,5 Volt AA type
Dimensions	H 100 x L 65 x W 30 mm

## WM600 SYSTEMS



**WM600M**  
Receiver WM600  
1x Transmitter WM6M



**WM600H**  
Receiver WM600  
1x Bodypack WM6H



# WM600D

- PLL UHF Dual Channel Wireless Microphone System
- 863 - 865 MHz frequency range
- 30 meter / 100 feet range
- 50 - 15000 Hz Frequency Response
- -105 dB signal / noise ratio
- Low-profile desktop receiver with two foldable antennas
- 4 selectable frequency channels
- Up to 2 systems usable in the same location
- ABS carrying and storage case



	WM6M
RF Frequency Band	863~865 MHz
Frequency Stability	0,00002
Modulation Method	FM (F3E)
RF Max Deviation	±40 kHz
Audio Frequency Response	50 - 15000 Hz
Spurious Emission	Under limits EN 300422
RF Output Power	< 10 dBm
Power Requirement	2 x 1,5 Volt AA type
Dimensions	H 235 x Ø 47 mm

	WM600
Receiver Type	PLL UHF 4 channel
Frequency Range	UHF 863~865 MHz
RF Frequency Stability	0,002%
Modulation Method	FM (F3E)
RF Image / Spurious Rej	> 70 dB
RF Interference Rej	> 70 dB
Sensitivity	-105 dB
Audio Frequency Response	50 - 15000 Hz
THD	< 1 %
Dynamic Range	> 100 dB
S/N Ratio	> 105 dB
Output Connectors	Balanced XLR Unbalanced ¼" jack
Power Requirement	DC 13-15 V DC / 200 mA
Dimensions	H 45 x L175 x W 135 mm

	WM6H
RF Frequency Band	863~865 MHz
Frequency Stability	0,00002
Modulation Method	FM (F3E)
RF Max Deviation	±40 kHz
Audio Frequency Response	50 - 15000 Hz
Spurious Emission	Under limits EN 300422
RF Output Power	< 10 dBm
Power Requirement	2 x 1,5 Volt AA type
Dimensions	H 100 x L 65 x W 30 mm

## WM600D SYSTEMS



### WM600DM

Receiver WM600D  
2 x Transmitter WM6M



### WM600DH

Receiver WM600D  
2 x Bodypack WM6B  
2 x Headset LWM1 + HWM1



### WM600KIT

Receiver WM600D  
1x Transmitter WM6M  
1x Bodypack WM6H  
1x Headset LWM1 + HWM1



# WM202

- Diversity UHF Channel Wireless Microphone System
- 863 - 865 MHz frequency range
- 30 meter / 100 feet range
- 50 Hz - 15 kHz Frequency Response
- -105 dB signal / noise ratio
- Low-profile desktop receiver with two foldable antennas
- Up to 3 systems usable in the same location
- ABS carrying and storage case



	WM2M
RF Frequency Band	863~865 MHz
Frequency Stability	0,00002
Modulation Method	FM (F3E)
RF Max Deviation	±40 kHz
Audio Frequency Response	50 - 15000 Hz
Spurious Emission	Under limits EN 300422
RF Output Power	< 10 dBm
Power Requirement	2 x 1,5 Volt AA type
Dimensions	H 235 x Ø 47 mm

	WM202
Receiver Type	UHF BAND
Frequency Range	UHF 863~865 MHz
RF Frequency Stability	0,002 %
Modulation Method	FM (F3E)
RF Image / Spurious Rej	> 70 dB
RF Interference Rej	> 70 dB
Sensitivity	-105 dB
Audio Frequency Response	50 - 15000 Hz
THD	< 1 %
Dynamic Range	> 100 dB
S/N Ratio	> 105 dB
Output Connectors	Balanced XLR Unbalanced ¼" jack
Power Requirement	DC 13-15 V DC / 200mA
Dimensions	H 45 x L175 x W 135 mm

	WM2H
RF Frequency Band	863~865 MHz
Frequency Stability	0,00002
Modulation Method	FM (F3E)
RF Max Deviation	±40 kHz
Audio Frequency Response	50 - 15000 Hz
Spurious Emission	Under limits EN 300422
RF Output Power	< 10 dBm
Power Requirement	2 x 1,5 Volt AA type
Dimensions	H 100 x L 65 x W 30 mm

## WM202 SYSTEMS



### WM202M

Receiver WM202  
1 x Transmitter WM2M



### WM202H

Receiver WM202  
1 x Bodypack WM2H  
2 x Headset LWM1 + HWM1



### WM202KIT

Receiver WM202  
1x Transmitter WM2M  
1x Bodypack WM2B  
1x Headset LWM1 + HWM1



# WM202D

- Diversity UHF Dual Channel Wireless Microphone System
- 863 - 865 MHz frequency range
- 30 meter / 100 feet range
- 50 - 15000 Hz Frequency Response
- -105 dB signal / noise ratio
- Low-profile desktop receiver with two foldable antennas
- Up to 2 systems usable in the same location
- ABS carrying and storage case



	WM2M
RF Frequency Band	863~865 MHz
Frequency Stability	0,00002
Modulation Method	FM (F3E)
RF Max Deviation	±40 kHz
Audio Frequency Response	50 - 15000 Hz
Spurious Emission	Under limits EN 300422
RF Output Power	< 10 dBm
Power Requirement	2 x 1,5 Volt AA type
Dimensions	H 235 x Ø 47 mm

	WM202D
Receiver Type	UHF BAND
Frequency Range	UHF 863~865 MHz
RF Frequency Stability	0,002 %
Modulation Method	FM (F3E)
RF Image / Spurious Rej	> 70 dB
RF Interference Rej	> 70 dB
Sensitivity	-105 dB
Audio Frequency Response	50 - 15000 Hz
THD	< 1 %
Dynamic Range	> 100 dB
S/N Ratio	> 105 dB
Output Connectors	Balanced XLR Unbalanced ¼" jack
Power Requirement	DC 13-15 V DC / 200mA
Dimensions	H 45 x L 175 x W 135 mm

	WM2H
RF Frequency Band	863~865 MHz
Frequency Stability	0,00002
Modulation Method	FM (F3E)
RF Max Deviation	±40 kHz
Audio Frequency Response	50 - 15000 Hz
Spurious Emission	Under limits EN 300422
RF Output Power	< 10 dBm
Power Requirement	2 x 1,5 Volt AA type
Dimensions	H 100 x L 65 x W 30 mm

## WM202D SYSTEMS



### WM202DM

Receiver WM202D  
1x Transmitter WM2M



### WM202DH

Receiver WM202D  
1x Transmitter WM2M  
1x Bodypack WM2H  
2x Headset LWM1 + HWM1



# WM101

**NEW**

- UHF 863 - 865 MHz ISM Band
- Available in 3 frequencies
- Up to 25 mt /100 feet range (open space)
- 50 - 15000 Hz
- Low profile desktop receiver
- ABS carrying and storage case



	WM11M
Carrier Frequency Range	863 - 865 MHz
Modulation Method	FM (F3E)
Transmission Distance	Up to 25 m (open space)
RF Frequency Stability	0,002 %
Audio Frequency Response	50 - 15000 Hz
RF Max Deviation	±50 kHz
Spurious Emission	Under limits EN300422
RF Output Power	< 10 dBm Max Exp (Effective Radiated Power)
Mic Capsule	Dynamic
Polar Pattern	Cardioid
Power Requirement	2 x 1,5 Volt AA type
Battery Life	Up to 8 hours
Dimensions	H 260 x Ø 45 mm

	WM101
Receiver Type	UHF Band
Frequency Range	863 - 865 MHz
RF Frequency Stability	0,002 %
Modulation Method	FM (F3E)
RF Image / Spurious Rej	> 70 dBm
RF interference Rej	> 70 dBm
Sensitivity	-105 dB
Audio Frequency Response	50 - 15000 Hz
THD	< 1%
Dynamic Range	> 90 dB
S/N Ratio	>100 dB
Power Requirement	DC 13-15 V DC / 500mA
Output Connector	Unbalanced ¼" jack
Dimensions	H 45 x L 150 x W 118 mm

	WM11B
Carrier Frequency Range	863 - 865 MHz
Modulation Method	FM (F3E)
Transmission Distance	Up to 25 m (open space)
RF Frequency Stability	0,002 %
Audio Frequency Response	50 - 15000 Hz
RF Max Deviation	±50 kHz
Spurious Emission	Under limits EN300422
RF Output Power	< 10 dBm Max Exp (Effective Radiated Power)
Mic Capsule Headset	Back electret condenser
Polar Pattern	Cardioid
Power Requirement	2 x 1,5 Volt AA type
Battery Life	Up to 8 hours
Dimensions	H 95 x L 65 x W 23 mm

## WM101 SYSTEMS



### WM101M

Receiver WM101  
1 x Transmitter WM11M



### WM101H

Receiver WM101  
1 x Bodypack WM11B  
1 x Headset HWM1



### WM101KIT

Receiver WM101  
1x Transmitter WM11M  
1x Bodypack WM11B  
1x Headset HWM1

# WM100

- VHF Wireless Microphone System
- 175 - 216 MHz frequency range
- 30 meter / 100 feet range
- 50 Hz - 15 kHz Frequency Response
- 95 dB audio dynamic range
- Low-profile desktop receiver with two foldable antennas
- Up to 5 systems usable in the same location *depending on the circumstances*
- ABS carrying and storage case



	WM1M
RF Frequency Band	174~216 MHz
Frequency Stability	0,00002
Modulation Method	FM (F3E)
RF Modulation	> 30 kHz
Audio Frequency Response	50 - 15000 Hz
Spurious Emission	Under limits EN 300422
RF Output Power	< 10 dBm
Power Requirement	2 x 1,5 Volt AA type
Dimensions	H 283 x Ø 50 mm

	WM100
Receiver Type	VHF BAND
Frequency Range	VHF 174~216 MHz
RF Frequency Stability	0,00002
Modulation Method	FM (F3E)
RF Image Rection	-75 dB
RF Interference Reject	> 70 dB
Sensitivity	-105 dB
Audio Frequency Response	50 - 15000 Hz
THD	< 1 %
Dynamic Range	> 100 dB
S/N Ratio	> 70 dB
Output Connector	Balanced XLR
	Unbalanced ¼" jack
Power Requirement	DC 13-15 V DC / 200mA
Dimensions	H 45 x L175 x W 135 mm

	WM1H
RF Frequency Band	174~216 MHz
Frequency Stability	0,00002
Modulation Method	FM (F3E)
RF Modulation	> 30 kHz
Audio Frequency Response	50 - 15000 Hz
Spurious Emission	Under limits EN 300422
RF Output Power	< 10 dBm
Power Requirement	2 x 1,5 Volt AA type
Dimensions	H 100 x L 65 x W 30 mm

## WM100 SYSTEMS



### WM100M

Receiver WM100  
1 x Transmitter WM1M



### WM100H

Receiver WM100  
1 x Bodypack WM1H  
1 x Headset LWM1 + HWM1



### WM100KIT

Receiver WM100  
1x Transmitter WM1M  
1x Bodypack WM1H  
1x Headset LWM1 + HWM1

# PA UHF SPLITTER



This professional active antenna splitter / booster splits the signal received from the two main "master" antennas to four diversity channels. Combined with two antennas (UHFGP or ANT700) and four RMW1000 multi-frequency receivers, it forms a high-sensitivity four-channel receiving system. The splitter has four 12VDC outputs for direct power supplying of the 4 wireless receivers.

Frequency band	600 - 790 MHz
Output Connectors	INPUT: 2 x TNC ; OUTPUT: 8 x TNC
Dimensions	H 44 x L 483 x W 250 mm
Input Impedance	50 $\Omega$
Output Impedance	50 $\Omega$
Power Requirement	12 - 18 vdc
Notes	INPUT/OUTPUT GAIN: +3 dB



# ANT700

Wideband design for use with RMW1000 System. Improves RF signal gain by 4dB.

Frequency Range	470 ~ 790 MHz
Effective Working Angle	70°
Antenna Impedance	50 $\Omega$
Antenna Gain	4 dB
Connector	TNC
Weight	400 g
Dimensions	H 260 x L 295 x W 5 mm

# PERSONAL MONITOR SYSTEMS

Offering the performance and the versatility of a high quality personal ear monitor system, PROEL RM3000 represents an affordable alternative to traditional stage monitors for its ease of use, its full set of features and its flexibility.



# RM3000

- ½ rack unit transmitter in a metal chassis
- 8 selectable frequencies (PLL synthesized)
- Audio level indicators (L&R)
- Channel selector and display
- Headphone output
- Audio input level control
- Combo inputs (Jack or XLR)
- Selectable mono or stereo mode



# RM3000R

- Bodypack receiver
- LCD display plus RF and AF indicators
- Battery level indicator
- Headphone output 2x100 mW @ 16 Ω
- Selectable limiter
- Selectable mono or stereo mode
- > 6 hours of use from 2 x 1,5 V battery
- EB10 earphones included



# EB10

- Comfortable, form-fitting expansion foam completely isolates the ear from external sound
- Extended Frequency Response



	RM3000		RM3000R		EB10
Frequency Range	863~865 MHz	Frequency Range	863~865 MHz	Audio Frequency Response	50 - 18000 Hz
Channel	8 selectables	Bandwidth	2 MHz	Sensitivity	112 dB/mW
Oscillation Mode	synthesized	Channel	8 selectables	Impedance	16 Ω
Maximum Deviation Range	70 kHz	Oscillation Mode	PLL synthesized	Distortion	< 0.3 %
Frequency Stability	±0.005 % (0°C~+60°C)	Maximum Deviation Range	70 kHz	Cable	1200 mm
Modulation Mode	FM (F3E) stereo modulation	Frequency Stability	±0.005 % (0°C~+60°C)	Plug Diameter	from 3,5 to 6,5 mm
RF Output Power	low<10mW;middle<50mW;high<100mW (depending on national rules)	Modulation Mode	FM (F3E) stereo modulation	Weight	7g
Spurious Rejection	Under limits EN 300422	Receiving Mode	single receiving		
Audio Frequency Response	50 - 15000Hz	Sensitivity	-110 dBm		
THD	< 1 % (at 1 kHz, max deviation)	Squelch Level	unchangeable		
Audio Input	line level x2, XLR/ Ø 6.3 mm combo socket	THD	< 0.5 % @ 1 kHz		
Audio Output	XLR phone jack x 2	Maximum S/N Ratio	90 dBa (a weighted)		
Earphone Output	Ø 6.3 mm stereo jack with adjustable volume	Audio Frequency Response	50 - 15000 Hz		
Earphone Output Impedance	16 Ω	Stereo Separation	> 45 dB @ 1 kHz		
Output Power (32Ω)	2 x 100 mW @ 1 kHz (THD 3%)	Output Jack	Ø 3.5 mm stereo earphone jack		
Amplifier Gain	low/high 10dB	Output Power (32Ω)	2x100 mW @ 1 kHz (THD 3%)		
Antenna Connector	tnc (50 Ω impedance)	Earphone Impedance	16 Ω		
Power Requirement	12~18 vdc 500 mA	Power Requirement	2 x 1,5 Volt AA type		
		Battery Life	8 hours (under moderate volume)		

# RM3000 SYSTEMS



## RM3000TR

Transmitter RM3000  
1x Bodypack RM3000R  
1x EB10



## RM3000R

Bodypack RM3000R  
1x EB10

# HEADSET **MICROPHONES**

The progress in microphone technology has brought to a gradual reduction of transducer dimensions, thus microphones can now be so small that it is difficult to spot them. Our Headset Series mics, provided with a choice of connection adapters, can be used in combination with most of the professional wireless systems.





# HCM08



- 3,5mm. permanently polarized condenser capsule
- Omnidirectional Polar Pattern
- Very sturdy construction
- 2 adaptors included (AD4SH - AD3SE)
- Supplied with HCMBAG

Type	Back Electret Condenser
Polar Pattern	Omnidirectional
Frequency Response	20 - 20000 Hz
Sensitivity	-35 dB
Max Spl for 1% THD	130 dB
Equivalent Noise Level	20 dB - A
Impedance	1500 $\Omega$
Recommended Load Impedance	> 2000 $\Omega$
Power Requirement	1,5 - 10 vdc
Connector (Changeable)	AD4SH - AD3SE
Weight	18 g
Dimension Capsule	$\varnothing$ 3,5 mm
Colour	beige

# HCM08PRO



- Very small size and super light-weight flexible miniature microphone
- 3.5 mm permanently polarized condenser capsule
- Double vent protection system for use in theatre and spoken word applications
- Comfortable and secure fit
- 3 adaptors included (AD4SH-AD3SE-AD3AK)
- Replaceable cable

Type	Back electret condenser
Polar Pattern	Omnidirectional
Frequency Response	20 - 20000 Hz
Sensitivity	-45 dB
Max Spl for 1% THD	130 dB
S/N Ratio	> 70 dB
Impedance	1500 $\Omega$ $\pm$ 30%
Power Requirement	1.5 V-10 vdc
Connectors (Changeable)	3,5 mm plug; 3 pin mini XLR; 4 pin mini XLR
Weight	25 g
Dimension Capsule	$\varnothing$ 3 mm
Cable	$\varnothing$ 1,5 x 1200 mm
Accessories	Metal Windscreen

# HCM10V2



- Permanently polarized condenser capsule
- Cardioid Polar Pattern
- 3 adaptors included ( AD4SH-AD3SE-AD3AK)
- Replaceable cable
- Designed to be used by singers, actors and showmen in applications where the microphone must be 'invisible'

Type	Back electret condenser
Polar Pattern	Cardioid
Frequency Response	20 - 20000Hz
Sensitivity	-35 dB
Max Spl for 1% THD	130 dB
Equivalent Noise Level	20 dB-A
Impedance	2000 $\Omega$
Recommended load impedance	2000 $\Omega$
Power Requirement	1,5 - 10 vdc
Connectors	3,5 mm plug; 3 pin mini XLR; 4 pin mini XLR
Weight	25 g

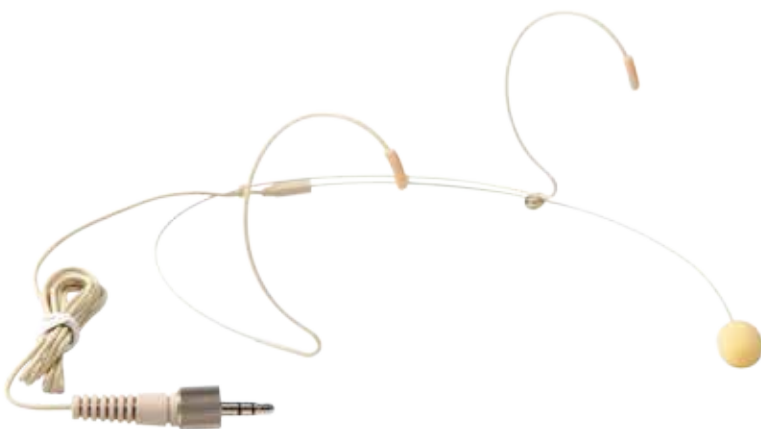
# HCM03



- 5 mm permanently polarized condenser capsule
- Omnidirectional Polar Pattern
- Comfortable fixed bi-aural headband
- Available either with 3,5 mm jack (HCM03SE), 4 pin mini-XLR (HCM03)
- Foam anti-pop screen included

Type	Back electret condenser
Polar Pattern	Omnidirectional
Frequency Response	20 - 20.000 Hz
Sensitivity	-42 dB
Max Spl for 1% THD	130 dB
Equivalent Noise Level	20 dB-A
Impedance	680 $\Omega$
Recommended Load Impedance	> 2000 $\Omega$
Power Requirement	1,5 - 10 vdc
Connectors	mini jack 3,5 mm (HCM03SE) Mini XLR 4 POLE (HCM03)
Weight	23 g
Dimension Capsule	$\varnothing$ 5 mm
Colour	beige

# HCM23



- Very small size and super light-weight flexible miniature microphone
- 5 mm permanently polarized condenser capsule
- Omni-directional Polar Pattern
- Double vent protection system for use in theatre and spoken word applications
- Comfortable and secure fit with fixed bi-aural headband
- Anti-pop screen
- Available either with 3,5 mm jack (code HCM23SE)  
4 pin mini XLR (code HCM23)  
or with 3 pin mini XLR (code HCM23AK)

Type	Back electret condenser
Polar Pattern	Omnidirectional
Frequency Response	20 - 20000 Hz
Sensitivity	-45 dB
Max Spl for 1% THD	130 dB
Impedance	1500 $\Omega$ $\pm$ 30%
Recommended Load Impedance	2000 $\Omega$
Power Requirement	1,5 - 10 vdc
Available Connectors	3,5 mm plug (HCM23SE); 3 pin mini XLR (HCM23AK); 4 pin mini XLR (HCM23)
Weight	25 g
Dimension Capsule	$\varnothing$ 5 mm
Cable	$\varnothing$ 1,5 x 1200 mm

# HCM38



- Light but sturdy high-quality condenser headset microphone
- Permanently polarized condenser capsule
- Cardioid Polar Pattern
- Perspiration-resistant
- Ideal for singers, MCs, and aerobics instructors
- Available either with 3,5 mm jack (code HCM38SE) or with 4 pin mini XLR (code HCM38)

Type	Back electret condenser
Polar Pattern	Cardioid
Frequency Response	80 - 14000 Hz
Sensitivity	-65 dB
Max Spl for 1%THD	135 dB
Equivalent Noise Level	18 dB-A
Impedance	680 $\Omega$
Recommended Load Impedance	2000 $\Omega$
Power Requirement	1,5 - 3 vdc
Connectors	mini jack 3,5mm ( hcm38se) mini XLR 4 pole ( hcm38)
Weight	51 g







# LAVALIER MICROPHONES

PROEL's miniature Lavalier microphones provide the perfect solution for applications requiring a high quality sound in an unobtrusive format. A choice of connection adapters make them suitable for wireless setups, while the PHW100 adapter allows them to be used also in wired mode.





# LCH420

- 5 mm permanently polarized condenser capsule
- Omnidirectional Polar Pattern
- Tie clip microphone
- 4 pin mini XLR connector
- Foam anti-pop screen included

Type	Back electret condenser
Polar Pattern	Omnidirectional
Frequency Response	20 - 20000 Hz
Sensitivity	- 42 dB
Max Spl for 1% THD	130 dB
Equivalent Noise Level	20 dB-A
Impedance	1000 $\Omega$
Recommended Load Impedance	> 2000 $\Omega$
Power Requirement	1,5 - 9 vdc
Connector	Mini XLR 4 POLE
Weight	8 g
Dimension Capsule	$\varnothing$ 5 mm
Colour	beige



# LCH370

- High-quality miniature broadcast lavalier microphone
- Flat Frequency Response and wide dynamic range
- 6,5 mm permanently polarized condenser capsule
- Cardioid Polar Pattern
- 3 standard adaptors (AD4SH-AD3SEAD3AK) for use with most of the professional wireless systems currently available
- Anti-pop screen

Type	Back electret condenser
Polar Pattern	Cardioid
Frequency Response	20 - 20000 Hz
Sensitivity	-45 dB
Max Spl for 1%THD	130 dB
Impedance	1500 $\Omega$
Recommended Load Impedance	2000 $\Omega$
Power Requirement	1,5 - 10 vdc
Connectors	mini jack 3,5mm mini XLR 4 pole mini XLR 3 pole
Weight	15 g



# LCM1

- Omni-directional lavalier microphone
- Permanently polarized condenser capsule
- Omni-directional Polar Pattern
- Ideal for MCs or worship leaders

Type	Back plate electret condenser
Polar Pattern	Omnidirectional
Frequency Response	80 - 16000 Hz
Sensitivity	-52 dB
Max Spl for 1% THD	128 dB
Impedance	680 $\Omega$
Recommended load impedance	$\geq 3000 \Omega$
Power Requirement	1,5 - 7 vdc
Connector	3,5 mm threaded MiniJack
Weight	5 g
Dimensions	$\varnothing 25 \times 1000$ mm



# PHW100

NEW

- High quality in line preamplifier microphone for HCM series
- Switchable high pass filter

Input	4 pin Mini XLR
Power Requirement	+ 48 vdc Phantom
Pad	- 10 dB
Low Cut	100 Hz -6 dB
Output Connector	3 pin male XLR
Weight	105 g
Dimensions	H 95 x $\varnothing$ 20 mm
Colour	black





**Music fills the  
between the**



# the infinite two souls.

(Rabindranath Tagore)



# HEADPHONES

Music is our passion and we demonstrate it every day in the care we use for making our sound systems. The collaboration between our R&D department and a group of professional musicians has allowed us to design a line of headphones that can make you feel at the center of the music. Deep and defined lows, clear and transparent highs, will make you savor every single detail of your music, be it jazz, pop, rock or classical.





# HFI57

Professional monitor headphones designed specifically for studio applications, offer a flat and extended Frequency Response combined with long wearing listening comfort.

Type	Circumaural headphones, Closed-back
Driver Size	57 mm
Frequency Range	20 - 25000 Hz
Sound Pressure Level (Spl)	102 dB
Power Handling Capability	200 mw
THD	0,1 %
Impedance	32 Ω
Jack Plug	3,5 / 6,3 mm stereo
Cable	2 m
Weight w/o cable	289 g



# HFC60

The HFC60 headphones provides a smooth bass response and an outstanding audio performance, while the closed around-the-ear earpiece design isolates against ambient noise. The HFC60 headset is compatible with any model of smartphone and tablet.

Type	Circumaural headphones, Closed-back
Driver Size	40 mm
Frequency Range	20 - 20000 Hz
Sound Pressure Level (Spl)	106 dB
Power Handling Capability	200 mw
THD	0,1 %
Impedance	32 Ω
Jack Plug	3,5 / 6,3 mm stereo
Cable	2 m
Weight w/o cable	268 g



# HFJ600

The design with foldable and swivelling earpieces makes these headphones suitable both for professional DJs or for the use with hi-fi sets. Fitted with a 2m cable, it provides an excellent freedom of movement.

Type	Circumaural headphones, closed-back
Driver Size	50 mm
Frequency Range	20 - 22000 Hz
Sound Pressure Level (Spl)	105 dB
Power Handling Capability	200 mw
THD	0,1 %
Impedance	32 $\Omega$
Jack Plug	3,5 / 6,3 mm stereo
Cable	2 m
Weight w/o cable	261 g



# HFD50

Enhanced-bass close-back dynamic monitor headphones ideal for use with drums, bass and other low-frequency sound source.

Type	Circumaural headphones, closed-back
Driver Size	50 mm
Frequency Range	20 - 22000 Hz
Sound Pressure Level (Spl)	105 dB
Power Handling Capability	200 mw
THD	0,1 %
Impedance	32 $\Omega$
Jack Plug	3,5 / 6,3 mm stereo
Cable	2 m
Weight w/o cable	262 g





# HFC25

Lightweight and comfortable, HFC25 allows for fatigue-free listening for extended lengths of time. A snug fit and smaller diameter creates sound isolation and ensures better dynamic range.

Type	Closed, supraaural headphones
Driver Size	40 mm
Frequency Range	20 - 20000 Hz
Sound Pressure Level (Spl)	106 dB
Power Handling Capability	200 mw
THD	0,1 %
Impedance	32 $\Omega$
Jack Plug	3,5 mm stereo
Cable	2 m
Weight w/o cable	197 g



# HFC16

These headphones are lightweight, comfortable and also perform exceptionally well in high-noise environments, offering a high attenuation of background noise.

Type	Closed, supraaural headphones
Driver Size	40 mm
Frequency Range	20 - 20000 Hz
Sound Pressure Level (Spl)	106 dB
Power Handling Capability	200 mw
THD	0,1 %
Impedance	32 $\Omega$
Jack Plug	3,5 mm
Cable	2 m
Weight w/o cable	178 g





# HFBT



The first Bluetooth headphones by PROEL give you the freedom to enjoy your movies, videos and music unplugged, offering full natural and rich sound and a full freedom of movement. All calls on your smartphone come through loud and clear, even in noisy environments. The rechargeable lithium-ion battery provides seven hours of use or 180 hours in standby time. You can easily recharge it with the included USB cable.

Type	Dynamic
Driver Size	40 mm
Frequency Range	18 - 21000 Hz
Sound Pressure Level (Spl)	103 dB
Power Handling Capability	50 mw
THD	0,10 %
Jack Plug	3,5 mm stereo
Bluetooth® Profiles	HSP, HFP, A2DP, AVRCP
Bluetooth® Version	V. 4.0 + EDR
Frequency Range	2,4 Ghz ISM Band
Power Requirement	Li-Ion 370 mha 3,7 volt
Battery Life (approx)	6 hours
Operating Distance	< 9 m
USB Cable	Included
Weight	132 g

# HFNC

NEW

The HFNC headphones are engineered to sound better, be more comfortable and easier to take with you. The sound is deep, powerful and balanced, and so quiet that every note sounds clearer, you can listen for hours. Any low noise, as engine roar, gently fades away. If the AAA battery runs out, they keep working and you still enjoy music without noise reduction.

Type	Dynamic
Driver Size	40 mm
Frequency Range	18 - 21000 Hz
Sound Pressure Level (Spl)	108 dB
Power Handling Capability	100 mw
THD	0,10 %
Impedance	32 Ω
Noise Reduction	up to 18 dB at 200 Hz
Jack Plug	3,5 mm stereo
1 x Airline Adapter	Included
Power Requirement	1 x AAA 1,5 volt battery
Battery Life (Approx)	50 hours (using Alkaline AAA battery)
Cable	1,8 m
Weight with cable	178 g



# EH600

High Definition dynamic Earphone

Speaker Dimension	10 mm
Frequency Range	100 - 20000 Hz
Sensitivity	95 dB
Impedance	22 $\Omega$ $\pm$ 10%
Jack Plug	3,5 mm stereo
Cord Length	1,2 m



# EH1000

Professional dynamic Earphone

Speaker Dimension	10 mm
Frequency Range	20 - 20000 Hz
Sensitivity	104 dB
Impedance	32 $\Omega$ $\pm$ 10%
Jack Plug	3,5 mm stereo
Cord Length	1,2 m



# EH1028

Fashion dynamic Earphone

Speaker Dimension	10 mm
Frequency Range	20 - 20000 Hz
Sensitivity	102 dB
Impedance	32 $\Omega$ $\pm$ 10%
Jack Plug	3,5 mm stereo
Cord Length	1,2 m

# MICROPHONES **ACCESSORIES**



# RMADRK1

Rackmount kit (1U) for 2 PROFESSIONAL SERIES wireless receivers.



# APM47

ABS microphone holder with fixing clip, ideal for drums microphoning. All PROEL microphone holders can be applied on the APM47. Master pack: 6 pcs.



# APM10

Big ABS microphone holder (Ø Min-Max: 22 - 26 mm). Master pack: 12 pcs.



# APM15

Universal ABS microphone clip holder with fastening screw (Ø Min-Max: 20 - 32 mm). Master pack: 12 pcs



# APM20

Special rubber microphone holder (Ø Min-Max: 22 - 26 mm). Master pack: 12 pcs



# APM25

ABS microphone holder (Ø Min-Max: 27 - 31 mm). Master pack: 12 pcs.



# APM45B

Big professional ABS microphone holder (Ø Min-Max: 32 - 39 mm). Master pack: 12 pcs.



# WS2BK

Small head-mount microphone sponge windscreen set. Inner dimensions: Ø 10 mm x 25 mm. Colour: black. Master pack: 1 set.



# WS3BE

5 mm Ø foam windscreen  
Skin Colour  
Suitable for HCM series



# WS1BK

Big microphone sponge windscreen. Inner dimension: Ø 45 mm x 115 mm. Colour: black. Master pack: 1 pc.



# WS6MBK

6 universal microphone sponge windscreen set. Inner dimensions: Ø 25 mm x 65 mm. Available models: WS6MBK: black only. Master pack: 1 set.



# PRORF02

Lightweight recording/home studio acoustic diffuser screen. The screen improves the sound of the acoustic space around the microphone. The screen has a metal insert with universal 5/8" thread to be attached to a straight microphone stand. Master pack: 1 pc.



\*Microphone and microphone holder not included

# APOP50

Dual layer nylon screen pop filter, equipped with adjustable gooseneck and universal fastening screw for straight stands. Master pack: 1 pc.



# DST60TL

New desktop microphone metal base/stand, completely collapsible. It comes with an ABS microphone clip and universal adapter. Available in matt black finish (DST60TL).



# DST260

Extensible arm microphone stand featuring fixed desktop base and clip-on base desktop stand. Suggested for radio installations and dubbing studios. 5 m XLR – XLR microphone cable included. Available in matt black (DST260) finish.



\*Microphone and microphone holder not included

# PSE2MKII

The new PSE2MKII is a pack that has a microphone and related accessories for musicians on the move. It includes the essential accessories for stage and recording rooms. The set includes the items RSM195BK (Black microphone stand), DM226 (Dynamic microphone), CHL250LU6 (6 mt microphone cable with black housing, gold pins YONGSHENG XLR connectors) and APM20 (rubber microphone holder). You can find everything in a practical carrying nylon bag.



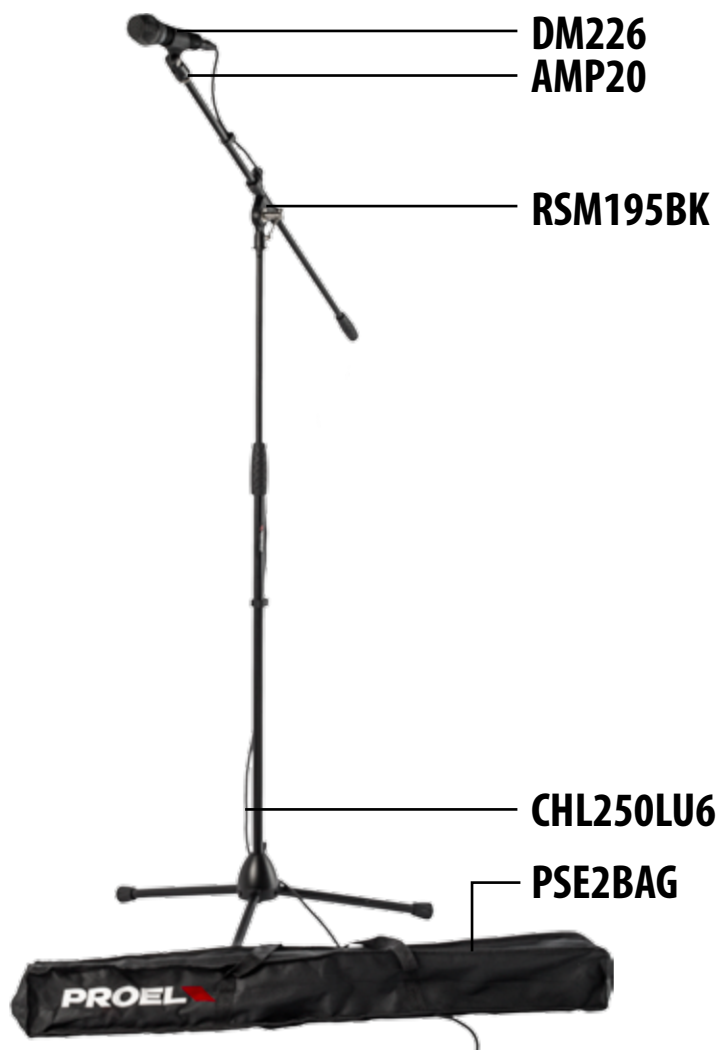
DM226



CHL250LU6

Components:

- **RSM195BK** - New professional microphone stand with boom. Equipped with high stability die cast tripod base, bearing nylon joints to ensure a fluid legs movement. Fully adjustable steel upper joint with die cast junction. Provided with clutch for height adjusting and counterweight made of "soft grip" rubber. Available in scratch-resistant matte black finish.
- **DM226** - DM226 is a vocal microphone with exceptional transparency at midBass frequencies, cardioid Polar Pattern and ergonomic barrel design. – Dynamic Capsule - Cardioid Polar Pattern - Flat and extended Frequency Response.
- **CHL250LU6** - CHALLENGE, Professional OFC microphone cable with YONGSHENG 3P XLR female cable mount - YONGSHENG 3P XLR male cable mount, black metal housing and gold pin connections. 6 mt length.
- **APM20** - Special rubber microphone holder (Ø Min - Max: 22 - 26 mm) with 3/8" - 5/8" thread adapter.
- **PSE2BAG** - Practical black Nylon carryng bag with inner padded pockets for microphone and microphone cable. Not available separately



# DST110

Triangular desktop heavy cast iron base with APM40 universal adapter. Available in matt black (DST100) finish.



DIE CAST

# RSM230

New professional headphone hanger, with universal clamp compatible with all PROEL microphone stands. Available in matt black finish (RSM230).



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