



# Spec Sheet

## MOVING ONE

UHF Diversity Wireless Microphone System

### Applications

- Live Sound, Music Clubs
- Conference, Seminar, Courtroom
- House of Worship, AV Companies

### Features

- Noise-free and interference-free audio signal
- 6 frequency bands available (518 – 865 MHz)
- Up to 77 channels, 10 groups
- Automatic free-frequency research
- Improved Diversity Technology
- Digital Code Squelch for extremely quiet power on/off operation and no squelch adjustments needed
- Infrared Rx/Tx setup communication system
- 100m receiving distance (outdoor use)
- 40Hz - 18kHz frequency response
- 104dB S/N ratio

### Description

Moving-One is a UHF diversity wireless system that combines the best of analog tradition with the contribution of digital technology. Thanks to this innovative technology, it provides a more noise-free and interference-free audio signal in any situation, by ensuring coverage of over 100m in outdoor use.

The Moving-One features 6 bands ranging from 518 to 865MHz. Bands 1, 2, 3, 4 and 6 operate on up to 77 channels divided in 10 groups. It is possible to increase the number of channels by using multiple bands.

The system is equipped with an automatic free-frequency research system, which seeks for free frequencies and, in case of disturbed channels, reports through a flashing LED the presence of interference. The selected frequency of the receiver is then sent to the transmitter via

infrared with a simple operation, avoiding boring manual procedures.

Furthermore, the innovative “Digital Code Squelch Technology” handles further telemetry information – like power on/off and charge level of Tx batteries – in addition to the audio data, preventing any interference to enter the Rx when Tx is turned off. So no squelch adjustments are needed anymore.

The diversity technology in the Moving-One is based on a new digital-assisted antenna selection system and monolithic-chip switch circuitry, which guarantee a virtually inaudible switching between the two antennas.

All this cutting edge technology assures natural sound with frequency range between 40Hz and 18kHz [ $\pm 2$ dB] and S/N ratio of 104dB [A-weighted], upsetting the standards of UHF diversity systems of this price range.

Moving-One Receiver features an intuitive user interface with only 4 buttons and a 2-digit LED display with 7 segments each. The infrared sensor is used to communicate with the handheld mic or the body-pack. Finally, there are two telescopic antennas and, in the real panel, an XLR and a 6.3mm Jack balanced/unbalanced outputs.

Moving-One Handheld Transmitter is equipped with a built-in antenna and its transmitting power can be factory defined between 10 mW or 50 mW, in function of Country regulations. It features a condenser capsule on a dynamic suspension, particularly brilliant and able to reproduce a warm and enveloping sound. Its gain is adjustable through a two-position switch: HIGH (+10dB) and LOW (0dB).

Moving-one Body-Pack is equipped with a Beyerdynamic® condenser headset connected via 4-Pins Mini-XLR. In case of instruments (guitars, basses, etc.) it is possible to use a Mini-XLR to 6.3mm Jack cable (optional) with optimized impedance and low capacitance. Even for the body-pack the gain is adjustable, but with a three position switch: HIGH (+10dB), MID (0dB) and LOW (-10dB). All other characteristics (Infrared system, batteries type and life) are the same than the handheld Model.

# MOVING ONE

## Technical Specifications

### RECEIVER (MOVING ONE-RX)

Receiver size	Half rack size	
Sensitivity	-92dBm	
Power supply	Power supply full-range, Input 100-240V~ 50/60Hz Output 12Vdc 500mA	
Current consumption	250mA	
Audio output	Mic (Balanced) XLR: max 300mVrms Line (Balanced/Unbalanced) JACK: max 1,2Vrms	
Frequency response	40Hz – 18kHz [±2dB]	
Distortion	<1% @ nominal deviation	
UHF operating frequency	Band 1	(518-542MHz)
	Band 2	(606-630MHz)
	Band 3	(662-686MHz)
	Band 4	(742-766MHz)
	Band 6	(823-832MHz)
	Band 7	(863-865MHz)
Modulation	FM with Digital Code Squelch	
Deviation	35KHz nom. @ 1KHz sinusoidal	
Antenna	2x integrated telescopic antennas	
Functionally	Diversity	
Weight	325g - 0.72lbs.	
Power supply weight	112g - 0.25lbs.	

### HANDLED TRANSMITTER (MOVING ONE-TXH)

Power supply	3V (2x1.5V) model AA alkaline	
Current consumption	~250mA at 3V	
Distortion	<1% @ nominal deviation	
Frequency response	40Hz – 18kHz [±2dB]	
UHF operating frequency	Band 1	(518-542MHz)
	Band 2	(606-630MHz)
	Band 3	(662-686MHz)
	Band 4	(742-766MHz)
	Band 6	(823-832MHz)
	Band 7	(863-865MHz)
Audio level	Adjustable through 2-position switch: +10dB HIGH / 0dB LOW	
Antenna	1 integrate	
Limiter	Yes	
Flat battery warning	Yes	
Battery life	nearly >18 hours	
Weight (with battery)	246g / 0.54lbs.	

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## Technical Specifications

### BELPACK TRANSMITTER (MOVING ONE – TXB)

Power supply	3V (2x1,5V) model AA alkaline	
Current consumption	~250mA a 3V	
Frequency response	40Hz – 18kHz [±2dB]	
Distortion	<1% @ nominal deviation	
UHF operating frequency	Band 1	(518-542MHz)
	Band 2	(606-630MHz)
	Band 3	(662-686MHz)
	Band 4	(742-766MHz)
	Band 6	(823-832MHz)
	Band 7	(863-865MHz)
Audio level	Adjustable with 3-position switch: +10dB / 0dB / -10dB	
Antenna	1 integrate	
Limiter	Yes	
Flat battery warning	Yes	
Battery life	nearly >18 hours	
Weight (with battery)	110g / 0.24lbs.	

### System

Type of receiver	Diversity with two antennas / 6 bands, up to 77 channels (10 groups) according to band
Frequency response	40Hz – 18kHz [±2dB]
THD distortion	<1% @ nominal deviation
S/N ratio	104dB “A” weighted
Modulation	FM (Frequency Modulation)
Deviation	35KHz nom. @ 1KHz sinusoidal
Conformity to Directive	1995/5/CE
Maximum capacity	40m (indoor); 100m (outdoor)

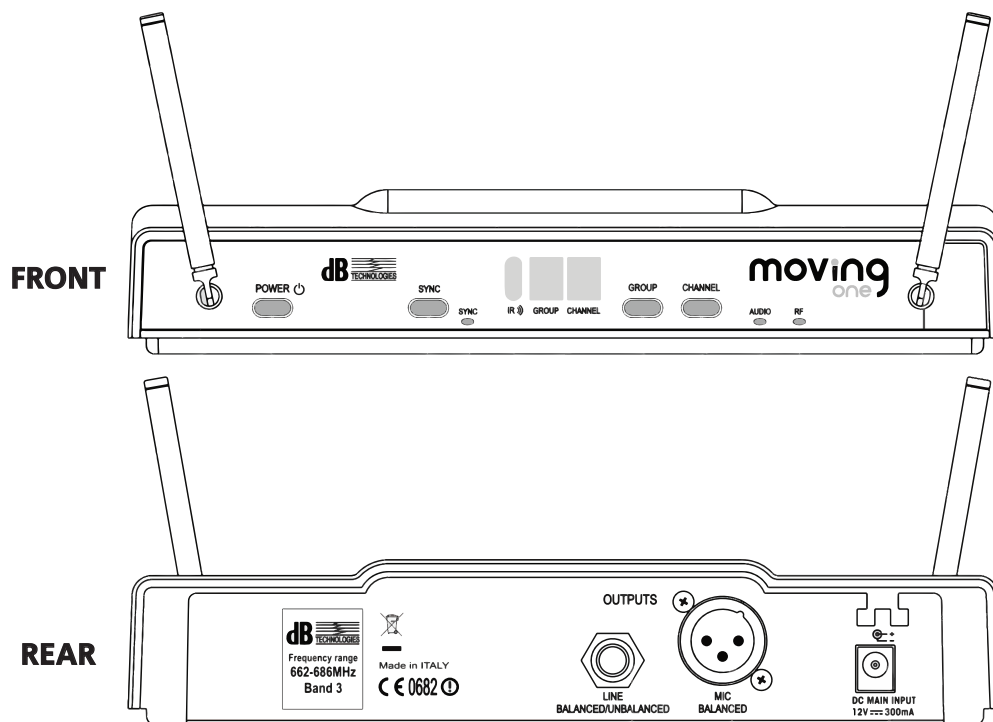
### MICROPHONE (HEADSET)

Transducer type	Capacitor
Frequency response	20 Hz – 13kHz
Nominal impedance	Ca. 700Ohm
Sensitivity (SPL)	119dB
Cable length	0.95m
Connector	4-pins MINI XLR Compatible Beyerdynamic / Opus
Weight	36g - 0.10lbs.

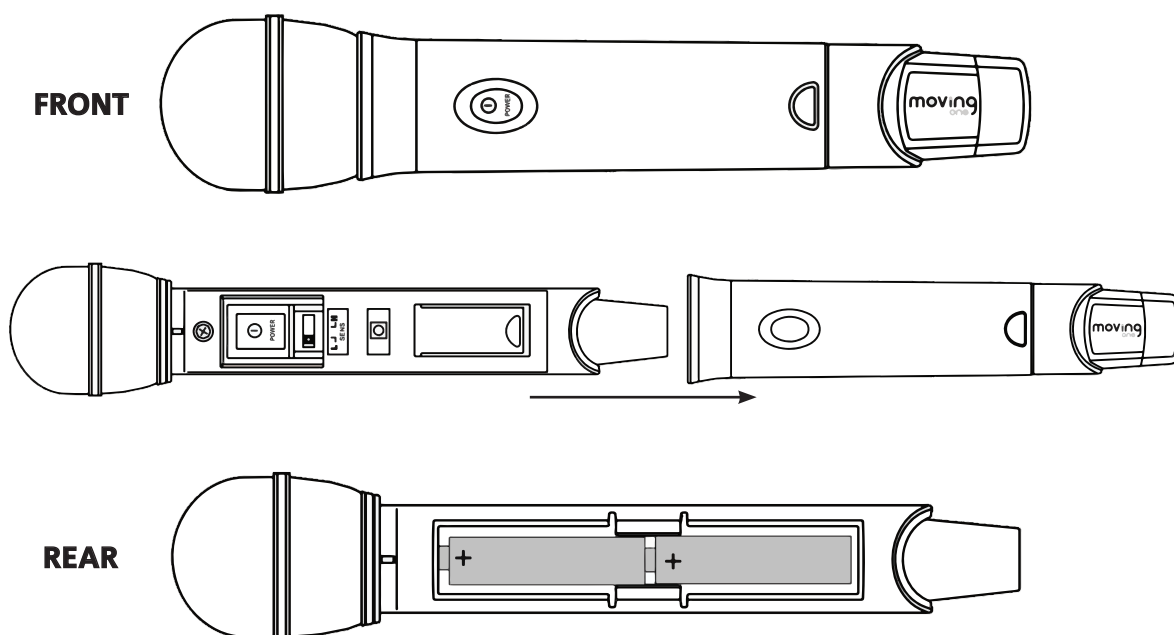
# MOVING ONE

## Technical Specifications

### MOVING ONE-RX



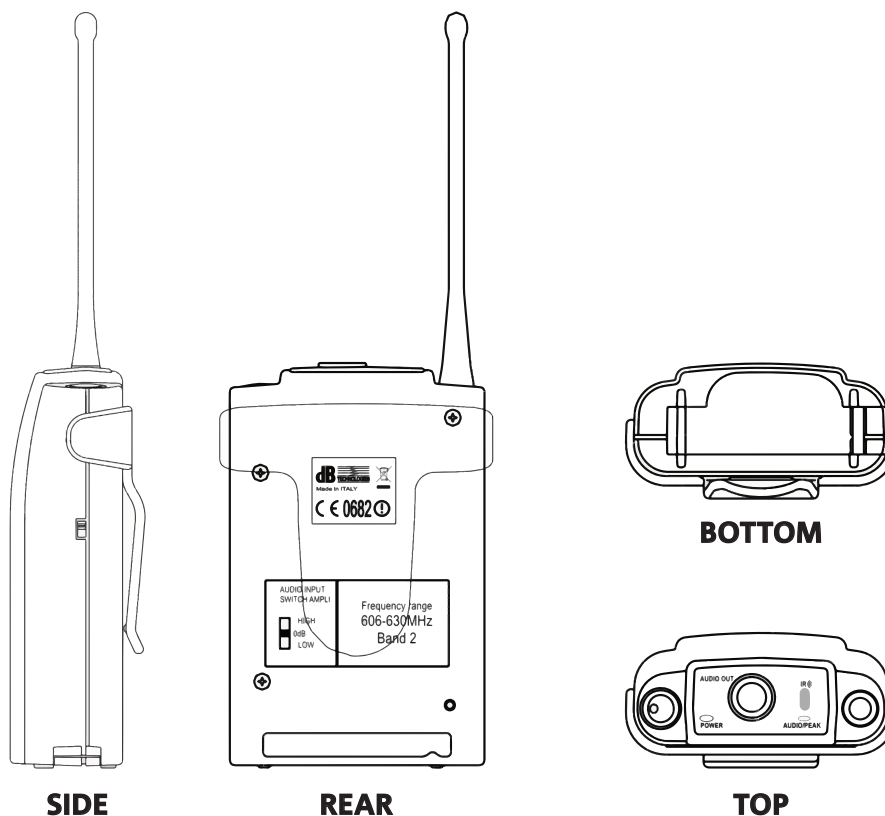
### MOVING ONE-TXH



# MOVING ONE

## Technical Specifications

### MOVING ONE-TXB



### MICROPHONE (HEADSET) / INSTRUMENT CABLE

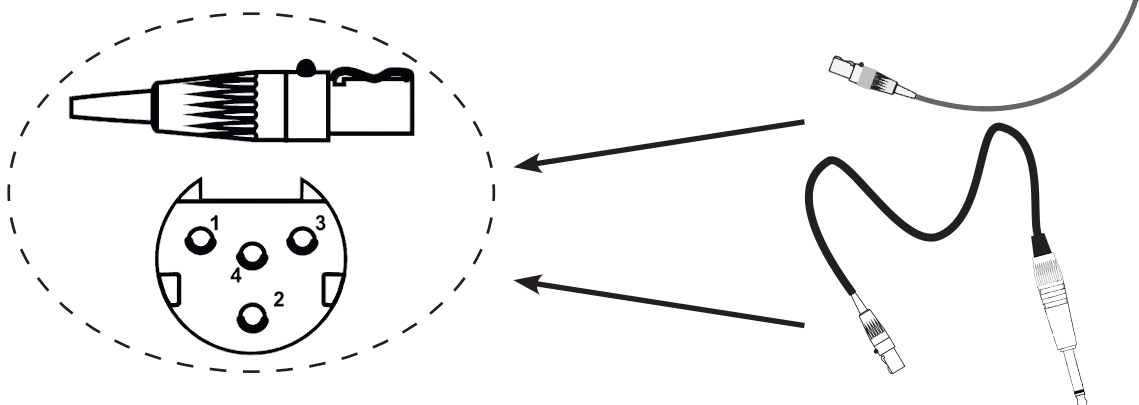
#### 4-Pins Mini XLR

PIN 1 = Ground / Shield

PIN 2 = H2

PIN 3 = H1

PIN 2 = Phantom Power



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dBTechnologies products are continually improved. All specifications are therefore subject to change without notice.