

## DIALOG® AERO



DIALOG® AERO is a wideband UHF 2-channel encrypted digital wireless microphone solution with over 100 MHz of RF tuning range.

- > With less than 4 ms of end-to-end audio latency, this system is ideal for conferencing and sound reinforcement applications.
- > Includes a modular expandable 2 bay smart dock. Link multiple 2 bay docks together to make up to an 8 bay dock to simplify installation and minimize cabling.
- > All system components utilize USB C connectivity for powering and charging.
- > Microphones can be powered with the included rechargeable Li-Ion AA batteries. Microphones can also be powered using NiMH AA rechargeable batteries, common AA battery types, or USB C.
- > Microphones and Dock can charge Li-Ion and NiMH AA batteries. The Dock also charges spare AA batteries.
- > The receiver connects to any audio device using professional balanced XLR output(s) and an unbalanced 1/4-inch mixed output.
- > The auto-scan feature finds open channels for optimal reception.
- > The receiver has a large LCD display for viewing frequency, RF power level, battery life, received signal strength, and audio level.
- > The receiver's compact half-rack size offers versatile mounting options. It can be installed in an equipment rack using the included rack ears or placed on a desktop, inside a credenza, under a table, or behind a video display.
- > Includes detachable antennas with a 5-foot extension kit for added flexibility.



### Professional Quality

Larger systems can be built using optional accessories, which include a four-channel antenna distributor with ceiling mount antennas, antenna combiners, and a joining kit for mounting two receivers in a single rack space.



### Aero Console Software

Aero Console software provides remote configuration, monitoring and management of the receiver and smart dock via Ethernet.

### APPLICATIONS

- Town Hall Meetings
- Company All-hands Meetings
- Company Management Retreats
- School Award Meetings
- Rallies
- House of Worship
- Hybrid Training and/or Presentation Sessions
- Sound Reinforcement and Voice Lift
- Rental Equipment

### WORKSPACES

- Class Rooms
- Auditoriums
- Court Rooms
- Gymnasiums
- Huddle Rooms
- Training Rooms
- Multipurpose Rooms

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### SYSTEM Specifications

Frequency Range .....	• 500 MHz – 608 MHz
Modulation .....	• QPSK
Frequency Response .....	• 20 Hz to 20 kHz ( $\pm 3$ dB)
Sampling Rate .....	• 48 KHz or 24 KHz
SNR .....	• $\geq 96$ dB (A)
THD+N .....	• $< 0.1$ %
Dynamic Range .....	• 120 dB
Working Distance .....	• 80 m
Audio Latency .....	• $< 4$ ms
Encryption .....	• 32 Bit

### RECEIVER Specifications

Display .....	• Color LCD
Antenna Interface .....	• BNC 50 $\Omega$
Receiving Sensitivity .....	• 95 dBm
Maximum Output .....	• Balanced 500 mV, Unbalanced 1000 mV
Power Supply .....	• 5 V / 2 A
Working Current .....	• 775 mA
Dimensions (L×W×H) .....	• 214.4 × 211.25 × 47 mm
Weight .....	• 1.2 kg
Antenna Bias .....	• 9 V
Ethernet .....	• RJ-45 100 Mbps
Operating Temperature .....	• $-10^{\circ}$ C to $45^{\circ}$ C

### CHARGER DOCK Specifications

Power Supply .....	• 5 V / 3 A
Charging Current .....	• Transmitter: 600 mA Lithium battery: 500 mA NiMH battery: 400 mA
Charging Time .....	• Lithium battery: 1.5 hrs NiMH : 5 hrs
Size .....	• 166 x 81 x 71 mm
Weight .....	• 0.5 kg

### BELTPACK TRANSMITTER Specifications

Display .....	• OLED Display
Output Power .....	• $\geq 10$ dBm
Working Current .....	• $\leq 200$ mA
Dimensions (L×W×H) .....	• 87.33 × 67.61 × 27.72 mm
Battery .....	• 2 × 1.2 V(AA), 2 × 1.5 V(AA), 2 × 3.7 V (AA)
Battery Life .....	• 12 hrs
Weight .....	• 160 g (including battery)
Microphone Connector .....	• TA3
Operation Voltage Range .....	• 2.0 V – 10 V

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### HANDHELD TRANSMITTER Specifications

Display .....	• OLED Display
Output Power .....	• $\geq 10$ dBm
Working Current .....	• $\leq 200$ mA
Dimensions .....	• Length 248.9 mm × Diameter 49.6 mm (including microphone capsule)
Battery .....	• 2 × 1.2 V (AA), 2 × 1.5 V (AA), 2 × 3.7 V (AA)
Battery Life .....	• 12 hrs
Weight .....	• 368.2 g (including battery)
Open Circuit Sensitivity .....	• 50 dB @ 1 KHz
Max SPL .....	• 135 dB
Equivalent Noise Level .....	• 15 $\mu$ V

### HEADSET MIC OMNI Specifications

Sensitivity Range .....	• $-47 \pm 2$ dB RL= 2.2 K $\Omega$ Vs = 2.0 V (1 KHz 0 dB = 1 V/Pa)
Impedance .....	• Max. 2.2 K $\Omega$ 1 KHz (RL= 680 $\Omega$ )
Frequency .....	• 20 - 16000 Hz
Current Consumption .....	• Max. 0.5 mA
Operating Voltage Range .....	• 2 V to 10 V
Maximum Sound pressure level .....	• 115 dB S.P.L
Signal-to-Noise Ratio .....	• 65 dB @ 1 kHz
Line length .....	• 1 m
Weight .....	• 23 g

### LAV MIC OMNI Specifications

Sensitivity Range .....	• $-40 \pm 2$ dB RL = 2.2 K $\Omega$ Vs = 2.0 V (1 KHz 0 dB = 1 V/Pa)
Impedance .....	• Max. 2.2 K $\Omega$ 1 KHz (RL = 2.2 K $\Omega$ )
Frequency .....	• 20 - 16000 Hz
Current Consumption .....	• Max. 0.5 mA
Operating Voltage Range .....	• 2.0 V - 10 V
Maximum Sound Pressure Level .....	• 115 dB S.P.L
Signal-to-Noise Ratio .....	• 65 dB @ 1 kHz
Reduced Sensitivity .....	• 3.0 V - 1.5 V sensitivity change < 3 dB
Line Length .....	• 1 m
Weight .....	• 20.6 g

### RACK MOUNT JOINING KIT Specifications

Ear Weight .....	• 29 g
Ear Size .....	• 26.5 mm x 43 mm
Weight of Splicing Plate .....	• 96 g
Splicing Board Size .....	• 110 mm x 80 mm

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### PART NUMBERS

- 910-630-001: Dialog® Aero 1 ch Wireless Rx
- 910-630-002: Dialog® Aero 2 ch Wireless Rx
- 910-630-100: Dialog® Aero 2 Bay Charger Dock
- 910-630-201: Dialog® Aero Beltpack Tx
- 910-630-202: Dialog® Aero Handheld Tx
- 910-630-301: Dialog® Aero Lav Mic Omni
- 910-630-302: Dialog® Aero Headset Mic Omni
- 910-630-500: Dialog® Aero Rack Mount Joining Kit
- 910-630-600: Dialog® Aero Antenna Distributor
- 910-630-601: Dialog® Aero Antenna 2 - way Combiner Pair
- 910-630-602: Dialog® Aero Antenna Ceiling Omni Pair



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