

DIALOG® AERO



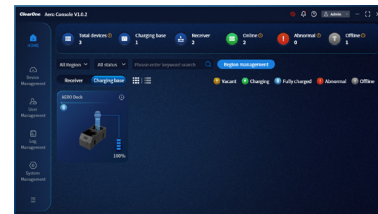
DIALOG® AERO is a wideband UHF 2-channel encrypted digital wireless microphone solution with over 100 MHz of RF tuning range.

- > 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

DIALOG® AERO

SYSTEM Specifications

Frequency Range	• 500 MHz – 608 MHz
Modulation	• QPSK
Frequency Response	• 20 Hz to 20 kHz (±3 dB)
Sampling Rate	• 48 KHz or 24 KHz
SNR	• ≥ 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 Ω
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° C to 45 ° 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	• ≥ 10 dBm
Working Current	• ≤ 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	• ≥ 10 dBm
Working Current	• ≤ 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 μ V

HEADSET MIC OMNI Specifications

Sensitivity Range	• -47 ± 2 dB RL = 2.2 K Ω Vs = 2.0 V (1 KHz 0 dB = 1 V/Pa)
Impedance	• Max. 2.2 K Ω 1 KHz (RL = 680 Ω)
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 \pm 1.5 g

LAV MIC OMNI Specifications

Sensitivity Range	• -40 ± 2 dB RL = 2.2 K Ω Vs = 2.0 V (1 KHz 0 dB = 1 V/Pa)
Impedance	• Max. 2.2 K Ω 1 KHz (RL = 2.2 K Ω)
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
Reduced Sensitivity	• 3.0 V - 1.5 V sensitivity change < 3 dB
Line Length	• 1 m
Weight	• 20.6 g \pm 1.5 g

RACK MOUNT JOINING KIT Specifications

Ear Weight	• 29 g \pm 1.5 g
Ear Size	• 26.5 mm x 43 mm
Weight of Splicing Plate	• 96 g \pm 1.5 g
Splicing Board Size	• 110 mm x 80 mm

DIALOG® AERO

PART NUMBERS

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



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