

# DIGIWATTS 2400 SERIES (2.4 GHz DIGITAL WIRELESS AUDIO TELECOMMUNICATION SYSTEM)

## OVERVIEW

DIGIWATTS 2400 SERIES (2.4 GHz DIGITAL WIRELESS AUDIO TELECOMMUNICATION SYSTEM) is a new generation 2.4 GHz wireless conference system. Unlike the traditional UHF wireless conferencing systems, DIGIWATTS 2400 SERIES uses the universal ISM 2.4 GHz frequency band so that you can apply this system worldwide without worrying about the difference of the regulated RF bands in the countries. The built-in innovative communication protocol can intelligently assign adequate RF channels to the wireless transmitters while maintaining low latency audio transmission. This innovative system provides you with proven performance and durability in a variety of settings, special ideal for remote conference, wireless broadcasting system, mobile office, multi-purpose rooms frequently hold various events, etc.



## FEATURES

- Wide working range: Reliable wireless coverage extends up to 260 feet (80 meters).
- The first transmitter connecting to the receiver is the chairperson. The chairperson is always online and is not affected by the first-in, first-out condition.
- Intuitive first-in-first-out mechanism to support up to 5 transmitters speaking simultaneously.
- Maintain over 1,000 transmitters online in a wide working range up to 260 feet (80 meters).
- Intelligently assign adequate RF channels to the wireless transmitters while maintaining low latency audio transmission (< 6 ms).
- LCD screen: Display the working channel and group.
- LED indicator: Display the connection status.

## SPECIFICATIONS

RF Carrier Frequency Range	: 2.4 GHz ISM band (2.412 ~ 2.484 GHz)
Working Range	: 260 feet (80 meters)
Audio Frequency Response	: 20 Hz ~ 20 kHz
Dynamic Range	: 113 dB
Latency	: About 6 ms
RF Sensitivity	: -86 dBm
Power	: 19.5 dBm maximum
Recommended Storage Temperature Range	: -30 °C (-22 °F) to 75 °C (167 °F)
Recommended Operating Temperature Range	: 0 °C (32 °F) to 50 °C (122 °F)

## APPLICATIONS



# DW24-APR 2.4 GHz DIGITAL WIRELESS ACCESS POINT RECEIVER

## OVERVIEW

The DW24-APR is a wireless access point receiver. The easy-to-install design greatly simplifies the equipment installation process so that you can easily apply this system to all kinds of conferencing occasions. The DW24-APR supports up to 5 transmitters speaking simultaneously and is capable to maintain over 1000 conference transmitters online in a wide working range up to 260 feet (80 meters). The receiver itself can intelligently assign adequate RF channels to the transmitters with the first-in, first-out mechanism which provides you an intuitive and convenient experience.

## FEATURES

- Low-profile design: Match most conference room interior design with elegant and professional style.
- Straightforward installation: Without complicated setup, the plug-and-play design can easily deliver Hi-Fi audio through the most popular audio output connectors (XLR and 6.3 mm audio output).
- Wide working range: Reliable wireless coverage extends up to 260 feet (80 meters).
- The first transmitter connected to DW24-APR is the chairperson. The chairperson is always online and is not affected by the first-in, first-out condition.
- Support up to 5 transmitters speaking simultaneously with first-in, first-out function.
- Maintain over 1000 conference transmitters online.
- Intelligently assign adequate RF channels to the wireless transmitters while maintaining low latency audio transmission (< 6 ms).
- LCD screen: Display the working channel and group.
- LED indicator: Display the connection status.



## SPECIFICATIONS

Frequency Range	: ISM 2.4 GHz band (2400 ~ 2483.5 MHz)
RF Sensitivity	: -86 dBm
RF Dynamic Range	: 105.5 dB
Working Range	: 260 feet (80 meters)
Latency	: About 6 ms
Antenna	: Rear panel, detachable
Display	: LCD
Output Connectors	: XLR and 6.3 mm audio output
Power Input	: DC 12 V / 2000 mA
Size	: 220 mm x 150 mm x 4 mm (length x width x height)
Weight	: 1 kg

# DW24-PL1 GOOSENECK MICROPHONE WITH 2.4 GHz DIGITAL WIRELESS BASE TRANSMITTER

## OVERVIEW

DW24-PL1 is a wireless gooseneck microphone with base compatible with DIGIWATTS 2400 SERIES. The detailed gooseneck mechanical design allows you to set the angle easily and precisely while speaking. With the professional microphone element, high-performance microprocessor and the elaborate acoustic algorithm, DW24-PL1 is capable to effectively convey high-fidelity audio signal to satisfy the needs of acoustic requirements in any conference setting.

## FEATURES

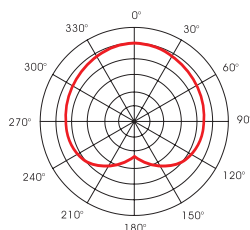
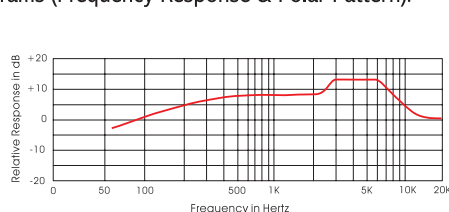
- Low profile design: Match most conference room interior design with elegant and professional style.
- Wide working range: Reliable wireless coverage extends up to 260 feet (80 meters).
- Adjustable wireless group to pair with the designated receiver (host).
- Automatic pairing, linking and frequency locking with the host.
- Adjustable volume.
- 3.5 mm audio input: Compatible with a variety of audio sources, such as computers, cell phones and MP3 players.
- LCD screen: Display of battery power, working group and working status, etc.
- Power button: Short press to power on/mute; long press for 3 seconds to shut down.
- Built-in rechargeable lithium battery.
- USB Type-C charging: The battery can be fully charged within 2~6 hours (depending on the charging source)..
- Durable working hours: More than 10 hours with a fully charged battery.
- Automatically shut down to save power when there is no audio input or unable to connect to the host for a certain period.



## SPECIFICATIONS

RF Carrier Frequency Range	: 2.4 GHz ISM band (2.412 ~ 2.484 GHz)
RF Power	: 19.5 dBm maximum
Working Range	: 260 feet (80 meters)
Latency	: About 6 ms
Element	: Back Electret condenser
Maximum SPL	: 127 dB (THD $\leq$ 1% @ 1 kHz)
Sensitivity	: -46 dBV/Pa @ 1kHz
Signal-to-Noise Ratio (SNR)	: 80 dB $\pm$ 3 dB
Dynamic Range	: 113 dB
Battery Type	: Rechargeable Li-ion
Battery Life	: Up to 10 hours
Charge Connector	: USB Type-C
Recommended Storage Temperature Range	: 0 °C (32 °F) to 30 °C (95 °F)

Diagrams (Frequency Response & Polar Pattern):



# DW24-AVL191D 2.4 GHz DIGITAL WIRELESS HANDHELD MICROPHONE

## FEATURES

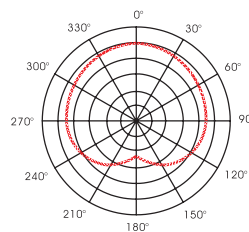
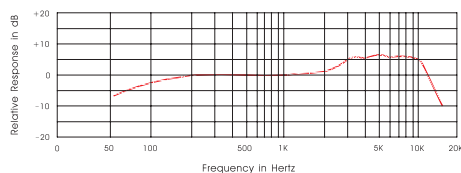
- Low profile design: Match most conference room interior design with elegant and professional style.
- Wide working range: Reliable wireless coverage extends up to 260 feet (80 meters).
- Adjustable wireless group to pair with the designated receiver (host).
- Automatic pairing, linking and frequency locking with the host.
- Adjustable volume.
- LCD screen: Display of battery power, working group and working status, etc.
- Power button: Short press to power on/mute; long press for 3 seconds to shut down.
- Built-in rechargeable lithium battery.
- USB Type-C charging: The battery can be fully charged within 2~6 hours (depending on the charging source)..
- Durable working hours: More than 10 hours with a fully charged battery.
- Automatically shut down to save power when there is no audio input or unable to connect to the host for a certain period.



## SPECIFICATIONS

RF Carrier Frequency Range	: 2.4 GHz ISM band (2.412 ~ 2.484 GHz)
RF Power	: 19.5 dBm maximum
Working Range	: 260 feet (80 meters)
Latency	: About 6 ms
Element	: Moving Coil Dynamic
Maximum SPL	: 135 dB (THD $\leq$ 1% @ 1 kHz)
Sensitivity	: -57 dBV/Pa @ 1 kHz
Battery Type	: Rechargeable Li-ion
Battery Life	: Up to 10 hours
Charge Connector	: USB Type-C
Recommended Storage Temperature Range	: 0 °C (32 °F) to 30 °C (95 °F)
Dimensions	: 220 mm x 50 mm
Weight	: 300 g

Diagrams (Frequency Response & Polar Pattern):





# DW24-PHM936 2.4 GHz DIGITAL WIRELESS BOUNDARY MICROPHONE

## FEATURES

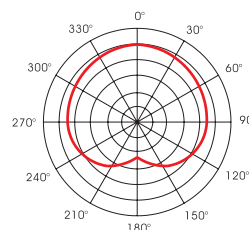
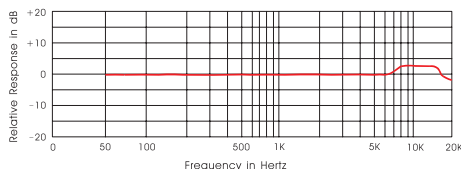
- Low profile design: Match most conference room interior design with elegant and professional style.
- Wide working range: Reliable wireless coverage extends up to 260 feet (80 meters).
- Adjustable wireless group to pair with the designated receiver (host).
- Automatic pairing, linking and frequency locking with the host.
- Adjustable volume.
- LCD screen: Display of battery power, working group and working status, etc.
- Power button: Short press to power on/mute; long press for 3 seconds to shut down.
- Built-in rechargeable lithium battery.
- USB Type-C charging: The battery can be fully charged within 2~6 hours (depending on the charging source)..
- Durable working hours: More than 10 hours with a fully charged battery.
- Automatically shut down to save power when there is no audio input or unable to connect to the host for a certain period.



## SPECIFICATIONS

RF Carrier Frequency Range	: 2.4 GHz ISM band (2.412 ~ 2.484 GHz)
RF Power	: 19.5 dBm maximum
Working Range	: 260 feet (80 meters)
Latency	: About 6 ms
Element	: Back Electret Condenser
Maximum SPL	: 140 dB (THD $\leq$ 1% @ 1 kHz)
Sensitivity	: -40 dBV/Pa @ 1 kHz
Signal-to-Noise Ratio (SNR)	: 64 dB $\pm$ 3 dB
Dynamic Range	: 110 dB
Battery Type	: Rechargeable Li-ion
Battery Life	: Up to 10 hours
Charge Connector	: USB Type-C
Recommended Storage Temperature Range	: 0 °C (32 °F) to 30 °C (95 °F)
Dimensions	: 23mm x 45 mm x 120 mm
Weight	: 150 g

Diagrams (Frequency Response & Polar Pattern):



# DW24-BP01 2.4 GHz DIGITAL WIRELESS BODYPACK TRANSMITTER

## FEATURES

- Low profile design: Match most conference room interior design with elegant and professional style.
- Wide working range: Reliable wireless coverage extends up to 260 feet (80 meters).
- Adjustable wireless group to pair with the designated receiver (host).
- Automatic pairing, linking and frequency locking with the host.
- Adjustable volume.
- Built-in omnidirectional mic: ensures clear and natural audio pick up without demanding an external microphone.
- External microphone input: allows connection of various lavalier or ear-worn condenser mics for optional use as a traditional bodypack transmitter.
- LCD screen: Display of battery power, working group and working status, etc.
- Power button: Short press to power on/mute; long press for 3 seconds to shut down.
- Built-in rechargeable lithium battery.
- USB Type-C charging: The battery can be fully charged within 2~6 hours (depending on the charging source).
- Durable working hours: More than 10 hours with a fully charged battery.
- Automatically shut down to save power when there is no audio input or unable to connect to the host for a certain period.



## SPECIFICATIONS

RF Carrier Frequency Range	: 2.4 GHz ISM band (2.412 ~ 2.484 GHz)
RF Power	: 19.5 dBm maximum
Working Range	: 260 feet (80 meters)
Latency	: About 6 ms
Microphone Connector	: 3.5 mm audio jack
Battery Type	: Rechargeable Li-ion
Battery Life	: Up to 10 hours
Charge Connector	: USB Type-C
Recommended Storage Temperature Range	: 0 °C (32 °F) to 30 °C (95 °F)