AV ELECTRONICS MARKETING SDN BHD

www.iva.com.my

www.IVA.COM.MY

GoWireless

UHF WIRELESS MICROPHONE

FEATURES

GoWireless represents a significant leap forward in UHF wireless technology, building on IVA's legacy and pioneering the use of System on a Chip (SoC). This integration not only shrinks the device's footprint and reduces component count, leading to cost savings, but also empowers GoWireless with intelligent features like AI frequency scanning. This ensures crystal-clear, reliable transmission by automatically identifying the cleanest channel. Coupled with a wide 100MHz bandwidth, GoWireless sets a new standard for performance and versatility.

Advanced SoC Architecture: A cutting-edge design integrating multiple circuits onto a single, powerful chip.

AI Frequency Scanner: Intelligently identifies, compares and selects the optimal transmission frequency for unparalleled transmission stability.

Wide 100MHz Bandwidth: Provides ample frequency options and supports simultaneous use of multiple units

100MHz Broadband Transmitter: Ability to synch with both receiver's CH A and CH B

Dual Antenna Placement Option: Offers flexible installation, especially for rack-mounted setups.

Infrared Synchronization: Enables quick and easy pairing between transmitter and receiver.

Unprecedented 100MHz Bandwidth

GoWireless boasts a massive 100MHz bandwidth, unmatched in its class. With Channel A spanning 470MHz to 520MHz and Channel B covering 530MHz to 580MHz, users have an abundance of frequency choices for optimal performance. This wide spectrum allows GoWireless to effortlessly navigate crowded UHF environments, avoiding interference and ensuring a clean signal. The 100MHz bandwidth also supports the simultaneous operation of up to 16 transmitters units (ideal environment and with optional antenna distributors for better antenna and cable management), making it ideal for large-scale events. Flexible transmitters synchronization with either Channel A or B simplifies management in complex setups.

System on a Chip (SoC) Innovation

IVA leads the charge in integrating SoC technology into professional wireless microphone design. By consolidating components like demodulation, amplification, voltage regulation and other circuitry onto a single chip, SoC architecture enables a more compact and efficient design. This results in a smaller circuit board, fewer components, simplified maintenance, and ultimately benefit customers in term of cost saving.

Intelligent AI Frequency Scanning

In today's congested UHF landscape, finding a clear transmission frequency can be challenging. GoWireless addresses this with its advanced AI frequency scanning. Leveraging the increased memory and processing power of the SoC, the system analyzes a wide range of frequencies, identifying, comparing and selecting the channel with the lowest noise floor for the cleanest possible signal.

Effortless Infrared Synchronization

Building on the user-friendly design of previous IVA wireless microphones, GoWireless features intuitive infrared synchronization. A dedicated Sync button provides direct access to this feature, allowing users to quickly and easily pair the transmitter and receiver without navigating complex menus.

Dual Antenna Placement for Enhanced Reception

Recognizing the popularity of rack-mounted installations, GoWireless offers a dual antenna placement option. A rackmount kit includes a port for front antenna placement, allowing users to relocate the antenna to the front of the receiver (using optional BNC coaxial cables). This dramatically improves signal reception, especially in situations where the rear-mounted antenna is shielded by the metal rack (performance may vary depending on the presence of a metal front door).

SPECIFICATIONS

Main Frame Size	EIA Standard 1U
Receiving Channel	Two channels
Receiving Mode	Non Diversity
Frequency Stability	±0.003%
Carrier Frequency Range	470 MHz – 520 MHz for CH A 530 MHz – 580 MHz for CH B
Total Frequency Channel	2 x 100 CH
Oscillation	PLL Synthesis
Sensitivity	>105 dB
Bandwidth	100 MHz
Max. Deviation Range	±48KHz
S/N	>103db(1KHz@A)
T.H.D	<0.4 @ 1 kHz
Frequency Response	45 Hz ~ 18 kHz ±3dB
Transmitter Transmission Strength	30 mW for handheld & bodypack
Spurious Emission	>55dBc
Operating Distance	60 meters in line of sight & low RF noise environment
Antenna Interface	2 x BNC
Audio Interface	6.3mm unbalanced audio output, XLR balanced audio output
Max. Unit Stacking	16 transmitters in low RF noise environments
Power Supply	12 ~ 18 VDC
Battery	AA 1.5V for handheld & bodypack
Battery Life	~ 6 hours for handheld & bodypack
Power Consumption	120 mA for handheld & bodypack
LCD Display	Frequency, CH, Battery, RF, AF, MUTE for Receiver, Frequency, CH, Battery for Handheld & Bodypack
Dimensions (WxDxH)	420 x 180 x 44 mm
Weight	2.2 kg
Packaging Dimensions (WxDxH)	515 x 78 x 394 mm
Packaging Weightt	3.8 kg

• The manufacturer reserves the right to make changes or improvements in manufacturing or design which may affect specification

Stackable Unit

In a busy RF environment and increasing of demand of multiple transmitter to be operating in same venues and spaces, the frequencies coordination is a crucial setup for a problem free event flow. All stacked receiver must be properly handled with antenna distributor for antenna management and power cable management for best interference free operation. Assuming the RF in the entire range of IVA GoWireless is completely free of interference RF noise, the table below are the carefully calculated frequencies point that can be selected for each of the transmitter.

Disclaimer: The enviroment RF is clean from RF noise.

UNITS	FREQUENCY (Mhz)
1	470.3
2	579.5
3	470.8
4	578.5
5	472.3
6	576
7	476.8
8	570.5
9	480.8
10	563.5
11	490.3
12	552
13	501.3
14	544.5
15	513.3
16	530.5

Choosing the Right Wireless Microphone

IVA wireless microphones offer freedom and flexibility for a variety of applications.
But with different models available, which is the perfect one? Understanding the key features and select the ideal IVA wireless microphone system is crucial to fulfill specific needs.

Feature	GoWireFree	GoWireless	GoWireless Pro	PRO-UD2 Advance Compact
Ranking	Entry-Level	Entry-Level	Professional	Flagship
Transmission Range	Short Range	Decent	Better	Best
Transmission Stability	Uninterrupted Use	Uninterrupted Use	Higher Stability	Absolutely critical
Sound Quality	Okay (Speech)	Okay (Speech)	Better (Professional Quality)	Highest (Studio & Live Grade)
Antenna	1	2	4	2, True Diversity
Best For	Everyday Use, Small Venues	Everyday Use, Small Venues	Professional Performers, Medium-Sized Venue	Large-Scale Events, Demanding Professionals
Target User	Cafes, Schools, Meeting Rooms	Cafes, Schools, Small DJs, Meeting Rooms	PA Rental, Mobile DJs, Performing Arts, KTV, Auditoriums, Hall	PA Rental (Concerts), Large Halls, Artists
Key Benefit	Ultra-budget-friendly	Budget-friendly	Enhanced Stability & Sound	Uncompromising Performance