



**PRO-UD2**  
ADVANCE COMPACT  
UHF WIRELESS MICROPHONE

**AV ELECTRONICS MARKETING SDN BHD**

[www.iva.com.my](http://www.iva.com.my)



# Compact Flagship UHF Wireless Microphone System

## Uncompromising Performance, Ultimate Clarity

Designed as the top-of-the-line model in the IVA wireless microphone series, the PRO-UD2 Advance delivers superior audio quality, cutting-edge RF technology, and seamless user experience in a COMPACT body. Built for professionals who demand exceptional sound clarity and reliability, this system ensures that every performance, speech, or presentation is heard with absolute precision. Featuring True Diversity Antenna Reception, the system intelligently switches antennas, receiving and demodulation circuitry to avoid signal dropouts, ensuring rock-solid wireless performance.

The impeccable audio balance across high, mid, and low frequencies provides natural, effortless voice reproduction, making vocals smooth and expressive. With four EQ presets, users can fine-tune their microphone's tone, enhancing bass or treble to suit individual vocal characteristics. The built-in RF Spectrum Detector and Artificial Intelligent (AI) Scanning take the guesswork out of frequency selection—automatically analyzing and selecting the cleanest available RF channels for interference-free transmission. Pairing is effortless, with infrared synchronization or the innovative Shake-to-Sync feature for fast and hassle-free setup.

The IVA PRO-UD2 Advance Compact is engineered for performers, speakers, and professionals who demand the best in wireless microphone technology—offering unparalleled stability, clarity, and ease of use.





## FEATURES



**Custom Circuit Design:**  
Engineered with premium electronic components, ensuring the highest quality and performance.



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



**25 MHz Bandwidth:**  
Provides up to 100 selectable channels and supports multiple units operating simultaneously without interference.



**Dual Antenna Placement Options:**  
Designed for flexible installation, making it ideal for rack-mounted setups.



**Infrared Synchronization:**  
Enables seamless and efficient pairing between the transmitter and receiver.



**Shake-to-Sync:**  
Effortless handheld microphone pairing with a simple shake for instant synchronization.



**Intelligent Auto Mute:**  
Advanced motion-sensing to auto mute in handheld microphone.



## Advanced Custom Circuitry

The IVA PRO-UD2 Series, now in its third generation, continues the legacy of proven stability and performance since the first PRO-UD2 launched in 2012. The third generation IVA PRO-UD2 Advance Compact takes performance to new heights with a fully improved proprietary custom-designed circuit design, ensuring superior audio clarity and signal integrity. At the core of its excellence is a proprietary custom-designed circuit that optimizes RF reception, RF demodulation, RF/AF amplification, and antenna diversity switching circuit. Each of these critical processes has been refined over the years, and with the Advance Compact version, premium-grade electronic components have been integrated to further enhance system stability and audio performance. A major leap forward in this generation is the introduction of True Diversity technology, marking a significant upgrade from the previous antenna diversity system. By intelligently switching between two independent antennas and its receiving circuitry, the system ensures the strongest possible signal reception, eliminating dropouts and dead spots. This makes the IVA PRO-UD2 Advance Compact the most reliable, interference-resistant, and high-performance wireless microphone system in the brand's history.



## Intelligent AI Frequency Scanning

With the increasing congestion in the UHF spectrum, ensuring a clean and interference-free wireless signal has become more challenging than ever. The IVA PRO-UD2 Advance Compact is designed to overcome this with its Intelligent AI Frequency Scanning, delivering seamless and reliable wireless performance in any environment. Using advanced real-time analysis, the receiver systematically scans and evaluates available frequencies, selecting the channel with the lowest noise floor for optimal transmission. This automated process eliminates guesswork, ensuring users always operate on the cleanest possible frequency with minimal risk of interference. Ideal for professional audio applications, this technology provides enhanced stability and signal integrity, making the IVA PRO-UD2 Advance Compact a trusted choice for demanding live performances, corporate events, and high-stakes productions.



A black receiver unit with a long, thin antenna attached to the side. The receiver has several buttons and a small display on the front.

## □ Next-Level Synchronization

In fast-paced live performances, corporate presentations, and professional events, setting up a wireless microphone system quickly and reliably is crucial. The IVA PRO-UD2 Advance Compact introduces a new dimension of wireless synchronization, designed to make pairing effortless and foolproof with two advanced technologies: Infrared Sync and Shake-to-Sync.

- Infrared Sync (IR Sync) ensures a precise and instant connection by aligning the IR sensors and pressing a button. This eliminates manual frequency tuning, reducing setup time and minimizing errors.
- Shake-to-Sync takes convenience even further—simply shake the handheld microphone while turning it on, and it will automatically synchronize with the receiver. This cutting-edge feature removes the need for button presses or menu navigation, making the pairing process faster, smarter, and more intuitive than ever before.

This dual synchronization system revolutionizes wireless microphone setup, making it faster, smarter, and more intuitive than ever before. Whether in live performances, corporate events, or places of worship, users can rely on seamless, next-generation pairing technology for a smooth and professional audio experience.

## □ Optimized Antenna Placement

Rack-mounted wireless systems often face signal challenges due to antenna placement, especially when enclosed in metal racks or cabinets. To ensure optimal RF performance, the IVA PRO-UD2 Advance Compact incorporates a dual antenna placement option, providing greater flexibility in professional installations. The included rackmount kit features dedicated ports for front antenna placement, allowing users to reposition the antennas using optional BNC coaxial cables. This minimizes potential signal obstructions from rear-mounted antennas and enhances reception reliability. While performance may vary depending on the presence of a metal front door, this feature offers a practical and efficient solution for maintaining stable wireless connectivity in demanding environments.

## □ Intelligent Auto Mute

In high-SPL environments such as KTV venues, live entertainment spaces, and corporate meeting events, open microphones can contribute to feedback and unwanted noise, impacting overall sound quality. To mitigate this, the IVA PRO-UD2 Advance Compact handheld microphone is equipped with an advanced motion-sensing Auto Mute function. When the microphone is placed on a table or remains idle, the built-in motion sensor detects inactivity and automatically engages mute mode, minimizing the risk of feedback and background noise. This ensures a cleaner, more controlled audio experience without requiring manual adjustments. For applications such as stage performances and conferences, where the microphone remains mounted on a stand, the Auto Mute function can be easily disabled, offering versatility to suit various professional settings.





# SPECIFICATIONS

Main Frame Size	EIA Standard 1U, Half Rack Size
Receiving Channel	Two channels
Receiving Mode	CPU Controlled True Diversity + Pilot Identification Reception
Frequency Stability	±0.005%
Carrier Frequency Range	565 – 590 Mhz
Total Frequency Channel	100 CH
Oscillation	PLL Synthesis
Sensitivity	>95 dBm
Bandwidth	25 MHz
Max. Deviation Range	±5KHz
S/N	>50 dBm
T.H.D	<1%
Frequency Response	70 Hz ~ 15 kHz ±3dB
Transmitter Transmission Strength	30 mW for handheld & bodypack
Spurious Emission	-35 dBm
Operating Distance	60 - 100 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	10 transmitters in low RF noise environments
Power Supply	12 VDC /1.25 A
Battery	AA 1.5V for handheld & bodypack
Battery Life	~ 6 hours for handheld & bodypack
Power Consumption	180 mA for handheld & bodypack
LCD Display	Frequency, CH, Battery, RF, AF, MUTE for Receiver, Frequency, CH, Battery for Handheld & Bodypack
Dimensions (WxDxH)	210 x 42 x 180 mm
Weight	1.8 kg
Packaging Dimensions (WxDxH)	480 x 71 x 340 mm
Packaging Weight	3 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 PRO-UD2 Advance Compact 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.

UNITS	FREQUENCY (Mhz)
1	565
2	565.5
3	566.75
4	569
5	570.5
6	579
7	584.75
8	587.25
9	589.25
10	590



# 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