

WILLIAMS AV

Digi-Wave[®] ACM

ADVANCED COMMUNICATION MODULE



The Digi-Wave 400 Advanced Communication Module (ACM) is a portable digital communication system designed for advanced intercom setups. With the Digi-Wave ACM, you get access to the full range of Digi-Wave 400 features along with the new Advanced Communications Mode. This mode caters to the constantly changing requirements of modern communication, offering all the essential functions found in high-end production intercoms at a reasonable cost.

Key Features

- A fully portable, full-duplex wireless intercom allows users to go where needed and remain in communication with their team.
- **Flexible Access Point.** Unlike most wireless intercom devices in the market, which use an access point to connect units, Digi-Wave ACM's Main Sync feature enables users to choose any device in the system to act as the digital access point, maximizing the overall range of the connected system and ensuring communication connectivity throughout the production area. Optionally, a unit can be mounted in a fixed location to maximize coverage.
- **All Call Mode.** This mode enables one or several leaders to communicate easily with all subgroups.

Applications

- Broadcast Intercom
- Live Production
- Large operations communications – Tour groups, cruise ships, etc.

The Digi-Wave ACM offers a primary sync function, enabling users to assign a unit as a flexible access point. Unlike many production intercoms that require a fixed access point, the Digi-Wave ACM operates wirelessly. This key feature allows users to designate a unit as a flexible access point, ensuring teams can move freely without concerns about signal drops.

With the new naming feature, administrators can personalize subgroups using up to 6 characters or select from common subgroups such as camera, audio, and stage. This customization aids team members in quickly recognizing their subgroups and enhancing communication efficiency.

Each Digi-Wave ACM system has a two-way transceiver (DLT 400-ACM) compatible with existing Digi-Wave 400 rechargeable receivers (with firmware 1.4.10 or higher).

Markets

- Live Performance & Events
- Production & Outdoor Broadcast (OB)
- Houses of Worship
- Conference Centers
- Live Sporting Events



View our full digital line at WilliamsAV.com/digital-products

Product Specifications: Digi-Wave 400 ACM Transceiver (DLT 400 ACM)

Dimensions	2.60"W x 4.22"H x 0.50"D (66 mm x 107.3 mm x 12.6 mm)
Weight	Weight 3.3 oz (94 g) including battery
Color	Black/Silver (Front/Back)
Case Material	Black ABS plastic
Battery Type	Lithium Polymer with smart charge built into transceiver; 1800 mAH
Battery Life	Up to 16 hrs talk time per charge@ 1ch Tx and 1ch Rx
Power Save	Auto Sleep Mode after 5 minutes of no RF signal from compatible devices
Charge Time	5 hrs. approx.
System Voltages	OLED 14VDC; RF 5VDC; Logic 3.3 VDC
Operating Frequencies	2.4 GHz (ISM band); 2402 – 2476 MHz FHSS
Audio Frequency Response (-3dB level)	Intercom, Court, INTP24, Adv. Comm and Q&A Mode: 100 - 7,200 Hz Other Modes: 100 - 11,500 Hz
SNR	73 dB (A-weighted, default Rx volume with mic input)
THD	0.1 % (Default Volume, 1kHz)
Microphone Input	Internal microphone (disabled when MIC jack engaged) and 3.5 mm phone jack (sleeve) with electret microphone bias, adjustable gain with 63dB range.
Line Input	USB-C, Adjustable level
Headphone Output	3.5 mm TRRS headphone jack; 25 mW, R 32 ohms
Audio Output	Headphone: Max SSPL 90 111.8dB (EAR 013), 116.8dB 041) Line: USB-C, Adjustable level
Range	Up to 900 ft (274 m) (depending upon environmental conditions)
Modulation	FSK
RF Output	19 dBm Typical
Security	87 bit encryption (300 Series Compatible), 128+87 bit encryption, encryption PIN, Lock for settings
Side Tone	-6 dB below volume, tone variation (Off, Low and High settings available)
Indicators	OLED
LEDs	Red LED around Talk button when enabled; Bi-color, changing green and red LED at top
Charging Connectors	USB-C; Two contacts for use with CHG 412
Compatible Receiver	DLR 400 RCH, DLR 400 ALK, DLT 300 with some limitations and DLR 360 with some limitations
Operating Temperature Range	14° to 113°F (-10° to 45°C)
Approvals	FCC, Industry Canada, CE, RoHS 3, WEEE, RCM, ANATEL, KC, Giteki
Warranty	2-year warranty against component failure and manufacturing defects (1 year on internal battery). See Full Warranty on the website for details.

Product Specifications: Digi-Wave 400 Receiver - Rechargeable (DLR 400 RCH)

Dimensions	2.60"W x 4.22"H x 0.50"D (66 mm x 107.3 mm x 12.6 mm)
Weight	3.3 oz (94 g) including battery
Color	Black
Battery type	Lithium Polymer with smart charge built into transceiver; 1800 mAH
Battery life	Up to 32 hrs per charge @ 1ch Rx
Power Save	Auto Sleep Mode after 5 minutes of no RF signal from compatible devices
Charge time	5 hrs. approx.
System Voltage	OLED 14VDC; RF 5VDC; Logic 3.3 VDC
Operating frequencies	2.4 GHz (ISM band); 2402 – 2476 MHz FHSS
Audio Frequency response(-3dB Level)	Intercom, Court, INTP24, and Q&A Mode: 100 – 7,200 Hz Other Modes: 100 – 11,500 Hz
SNR	73 dB (A-weighted)
THD	0.1 % (Default Volume, 1kHz)
Headphone Output	3.5 mm TRRS headphone jack; 25 mW, R32 Ω
Line Audio Output	USB-C, Adjustable Level
Range	Up to 900 ft (274 m) (depending upon environmental conditions)
Modulation	FSK
RF Sensitivity	-92 dBm
Security	87-bit encryption (300 Series Compatible), 128+87 bit Encryption, encryption PIN, Lock for settings
Indicators	OLED
LEDs	Bi-color, changing green and red LED at top
Charging Connectors	USB-C; Two contacts for use with CHG 412
Compatible Units	DLT 400, DLT 300 with some limitations
Operating Temperature	14° to 113°F (-10° to 45°C)
Approvals	FCC, Industry Canada, CE, RoHS 3, WEEE, RCM, ANATEL, KC, Giteki
Warranty	2-year warranty against component failure and manufacturing defects (1 year on internal battery). See Full Warranty on the website for details.