

AR-DV1

Multi-mode Digital Voice Receiver

It's the **FIRST** multi-mode digital voice receiver to receive and decode virtually **ALL** popular digital modes including: **MOTOTRBO™, DMR, dPMR™, APCO P25, NXDN™, Icom D-Star™, Digital CR, Yaesu, Kenwood®, and Alinco EJ-47U** as well as conventional analog signals.

With this breakthrough development, AOR offers the monitoring community a powerful new tool that receives multiple digital formats in addition to traditional analog operations in a compact receiver built for high sensitivity and selectivity.



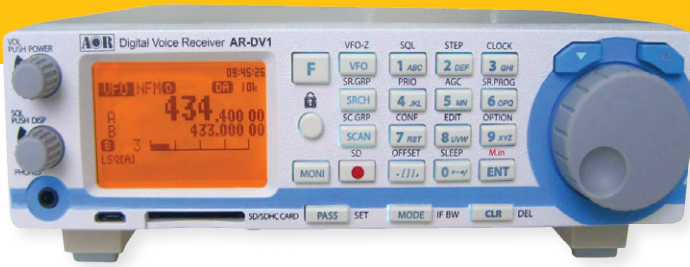
Available in a professional version or in a U.S.A. consumer version, in addition to its multiple digital mode capabilities, the AR-DV1 also receives analog modes including AM, wide and narrow FM, upper and lower sideband and CW.*

Giving monitoring operators the ability to receive a wide variety of digital and analog frequencies, the AR-DV1 can be used by military, federal, state and local law enforcement agencies, emergency managers, diplomatic services, news-gathering operations, and home monitoring enthusiasts in areas where government, law enforcement, amateur radio operators and public safety agencies use different digital formats.

The AR-DV1 can be used with or without a computer. It features:

- wide band coverage from 100kHz to 1300MHz*
- computer control for easier programming and monitoring operation
- a micro USB computer interface
- built-in SD/SDHC card reader for audio recording
- higher 1st IF frequency 1705 MHz provides higher image rejections
- CSV memory data capability for frequency uploads/ downloads and firmware updates
- 2000 memory channels (50 channels X 40 banks)
- alpha-numeric channel labels
- offset reception and priority channel selection
- auto-notch filter
- noise reduction
- voice inverter
- discriminator output

AR-DV1 Multi-mode Digital Voice Receiver



The first scanning receiver of its kind to receive and decode virtually ALL popular digital modes including:

- MOTOTRBO™
- DMR
- dPMR™
- APCO P25
- NXDN™
- Icom D-Star™
- Digital CR
- Yaesu
- Kenwood®
- Alinco EJ-47U

PLUS conventional analog signals including:
AM, wide and narrow FM, upper and lower sideband and CW modes

The AR-DV1 can be operated independently or computer controlled for easier programming and monitoring. It features:

- wide band reception from 100kHz to 1300MHz*
- a micro USB computer interface
- built-in SD/SDHC card reader for audio recording
- CSV memory data capability for frequency uploads/downloads and firmware updates
- 2000 memory channels (50 channels X 40 banks) that can be stored in the receiver using individualized data for each channel that includes frequency, alpha-numeric channel labels, mode, and more

The AR-DV1 gives monitoring operators the ability to monitor a wide variety of digital and analog frequencies, making it particularly useful in areas where government, law enforcement, amateur radio operators and public safety agencies use different digital formats.

SPECIFICATIONS

Frequency range:	100 kHz ~ 1300* MHz (Note: Specifications guaranteed above 530 kHz)
Number of VFO's:	3
Analog receive modes:	FM, AM, Synchronous AM (SAH, SAL), USB, LSB, CW
Digital receive modes:	D-STAR (GMSK), ALINCO (GMSK), YAESU (C4FM) (*1), DIGITAL CR (C4FM), NXDN (C4FM), dPMR (C4FM) (*2), P25 (Phase 1) (C4FM), DMR (*3) Note: (*1) V/D model only (*2) dPMR446 mode only (*3) Implemented since firmware 409C. Tier 1 & 2 modes, non-encrypted
Receive assisted functions	Auto notch, Noise reduction, Analog voice descrambler (Government version only), AGC, Step adjust, Offset receive, Priority
Squelch modes:	Level squelch (in AM, FM mode), Noise squelch (in FM mode), Voice squelch, Tone squelch, DCS
Receiver configuration:	100 KHz ~ 18 MHz : Direct conversion 18 MHz ~ 180 MHz: Double conversion super heterodyne (1st IF: 393 MHz, 2nd IF: 31.0 MHz) 180 MHz ~ 1300 MHz: Triple conversion super heterodyne (1st IF: 1705 MHz, 2nd IF: 393 MHz, 3rd IF: 31.0 MHz)
Sensitivity	530 KHz ~ 17.99999 MHz : -3dBu typ. (12dB SINAD) 18 MHz ~ 1300 MHz: -10dBu typ. (12dB SINAD)
Frequency stability:	+/- 2.5 ppm
Maximum antenna input level:	+0dBm
Speaker output :	1 watt max. (at 8 ohm, 12 V DC input)
Detector output:	-20dBm (at 600 ohm)
Search banks:	40
Pass frequency:	50 per bank or VFO
Memory banks:	40
Memory channels:	2,000
Priority channel:	1
RF attenuator:	Automatic
Power consumption:	approximately 750 mA (at 12 V DC)
Recording media:	SD/SDHC, 1 channel, 19 kHz sampling
Dimensions:	Approx. 178 mm (W) x 50 mm (H) x 214 mm (D) (projections not included) 7-1/64 (W) x 2 (H) x 8-27/64 (D) inches
Weight:	Approx. 1.5 kg (3lb 5oz)
Power requirement:	10.8 ~ 16.0 V DC, approx. 800 mA
Operating temperature:	0 ~ 50 degrees (C) 32 ~ 144 degrees (F)

*Cellular frequencies blocked in the US. Product and brand names used are for identification purposes only. All trademarks remain the property of their respective owners. Specifications are subject to change without notice or obligation.

The Serious Choice in Advanced Technology Receivers



Authority On Radio Communications

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