

## AR-ALPHA

### AR-ALPHA MULTI-MODE COMMUNICATIONS RECEIVER



AR-ALPHA is a new kind of wideband software defined receiver based on ZERO-IF and DDS local generator, added to a 6" TFT screen displaying an amazing 1GHz bandwidth FFT spectrum!

This high-end receiver targets communication professionals and authorities (surveillance, law enforcement...) as it also features a 1MHz wide high resolution digital I/Q output to PC.

#### **Main specifications:**

- Zero-IF and DDS local generator
- 10kHz-3.5GHz (with or without gaps, depending on country regulation)
- FFT Spectrum Display up to 1GHz bandwidth
- Wide Band I/Q digital output through continuous isochronous USB 2.0 Interface (1MHz BW, Mantissa 4-bit, Index 13-bit for wide dynamic range, 98.304M-bit/sec. transfer rate)
- Multi mode receive : WFM (in stereo, selectable de-emphasis), NFM, AM (Synchronous AM, diversity synchronous AM), ISB, RZSSB, USB, LSB, CW, P25, TV (FM, AM, NTSC/PAL/ SECAM/ PAL-M)
- Multiple IF filters: 200Hz, 500Hz, 3kHz, 6kHz, 15kHz, 30kHz, 100kHz, 200kHz, 300kHz
- Versatile digital processing: Digital noise filter, auto notch filter, noise blanker, IF shift, AFC, variable CW pitch, voice descrambler, voice squelch, CTCSS, DCS
- 6" color TFT display
- 19" rack mount

(all specifications subject to change without notice)

# AR-ALPHA

## Communications Receiver

*Takes Professional Monitoring to a New Level*



*The AR-ALPHA is designed to meet the increasingly complex needs of monitoring professionals with coverage from 10KHz to 3.3GHz continuous, with no gaps.*

- Digital Signal Processing on IF stage and demodulate stage
- Fast frequency processing by means of FFT
- Multi mode receive: WFM (in stereo, selectable de-emphasis), NFM, AM, (Synchronous AM, diversity synchronous AM), ISB, R255B, USB, LSB, CW, P25, TV (FM, AM, NTSCPAL)
- Multiple IF filters: 200Hz, 500Hz, 3 KHz, 6 KHz, 15 KHz, 30 KHz, 100 KHz, 200 KHz, 300KHz
- Versatile digital processing: Digital noise filter, auto notch filter, noise blanker, IF shift, AFC, variable CW pitch, voice descrambler, voice squelch, CTCSS, DCS
- IQ digital output (1MHz BW)
- Communication port (RS-232C, USB)
- 6" color TFT display
- 19" rack mount
- Displays up to 100MHz bandwidth
- Analog signal level indicator

**AOR**<sup>®</sup>  
Authority On Radio

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*Specifications subject to change without notice or obligation.*