

AR-ONE C **FREQ. & PHASE COHERENT**

Professional communications receiver



In addition of 10MHz frequency standard input/output connectors (for coherent), there are also 1st, 2nd, 3rd local oscillator input/outputs, for phase matching with a maximum 5% shift. The daisy chained receivers become therefore perfect clones in frequency and phase.

The number of receivers which can therefore be interconnected, is only limited by the type of (non supplied) IF amplifiers and splitters used.

SMA connectors for INPUT	SMA connectors for OUTPUT
10MHz standard oscillator 1# 8 2ª local oscillators: 254.5MHz or 744.5MHz 3 ^{ª l} local oscillator: 10.245MHz	IF (10.7MHz or 455kHz) 10MHz standard oscillator 14 & 2 rd local oscillators: 254.5MHz or 744.5MHz 3 rd local oscillator: 10.245MHz



ntical phase for their resp ective IF OUT having an identica signals at 455kH7

M, NFM, WFM, USB, LSB, CW, DATA

10 kHz - 3.3 GHz Frequency stability 0.1 ppm Phase matching at max. 5% shift High intercept For multi-receiver configurations (such as for direction finding purposes). frequency matching as well as PHASE MATCHING between receivers are Whereas the AR-ONE already offers an ultra-stable reference frequency oscillator of 0.1ppm, the new AR-ONE C provides LOCAL OSCILLATOR

SEPARATION, for best possible PHASE MATCHING between receiving units.

Example of typical 1 master + 4 slave receivers configuration for DIRECTION FINDING setup.



AR-ONE C SPECIFICATIONS AM mode -10dB S/N, NFM mode -1 INAD, CW/SSB mode -10dB S/N) 0.5KH 0.5KHz < 2KH; 1.5W (8 Ohm) @ 10% distortion 3KH2 KH2 6KHz 10~40 KHz CW 22.3 uV sion of AR-ONE) 13.5V DC, < 2amp. (@ 1W audio o < 30KH: 9KHz)KHz > AM -4.5uV, CW -1.5uV 15K 40KH AM 2.5uV, 2 ~ 40 MHz AM -1.5uV, SSB/CW -0.7uV, NFM -0.89uV 50 Ohm N-TYPE 70KHz 30KHz OKHz 100 KHz-- 40 0 7MHz or 455KHz 110KH 10KHz < 450KH MHz M -0.89uV, SSB/CV 600KF OOKH 900KH 40 MHz ~ 1 0.4uV, NFM -0.5uV, WFM IOMHz (OdBm +/-3dB 1.5uV AM -0.7uV, SSB/CW -OdB > RS-232C up to 38400b -----1 GHz ~ 2 5 0.32uV, NFM -0.4uV WFM -1.5uV 10 to 50 degrees Celciu 57(W) x 58(H) x 270(D) 5dB > AM -0.9uV, SSB/CW 2.5 GHz ~ 3.3 0.35uV, NFM -0.5uV, WFM -1.5uV iz, 6kHz, 9kHz, 15kHz, 1st F : 754 MHz /265 MHz $+2dBm \ge (-1dBm \ge above 2.5GHz)$ 10kHz & 220kHz, 300 kHz 2nd IF : 10.7 MI rd F : 455 KH: 1000 (10 banks 0.1ppm (-10 1 Hz to 1 MHz (1 Hz incremental)

critical.

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