

MGT Audio/Video Receiver

RV 2000A



The RV 2000A is a receiver operating in the frequency band from 950MHz to 2050MHz. It is adjustable on the front panel by preset switches at intervals of 1MHz. The frequency range may be extended from 2051MHz to 2700MHz with a converter.

The RV 2000A can be supplied with diversity switching (RV 2300D), and a stereo option is also available.

The unit features A & B switching for audio sub-carrier 5.5MHz or 7.2MHz.

An RF level meter is included on the front panel.

Power requirement is 12Vdc from battery or power supply.

The unit is complete in its own solid aluminium housing, measuring 103mm x 42mm x 168mm.

A full range of antennae are available depending on application.

CE and FCC approved

Specification RV 2000A	
Frequency range	950MHz–2050MHz (PLL), (2051MHz–2700MHz with S band converter)
Programmable steps	1MHz digital
Noise	10db
Input impedance	75Ω connector F female
Video deviation	27/16MHz SAW filter 479.5MHz
Video output	1Vpp on 75Ω adjustable (PAL, NTSC or SECAM)
De-emphasis	standard CCIR switchable
Video frequency response	50Hz–5MHz ±1dB with audio at 7.5MHz, ±2dB with audio at 5.5MHz
Differential gain	±4%
Differential phase	±4%
Video S/N ratio	>40dB unweighted deviation, = 4MHz RF input 50dBm
Audio sub-carrier frequency	5.5MHz–7.5MHz switchable
Audio sub-carrier deviation	±50kHz FM
Stereo version	8.065MHz Ch1, 7.500MHz Ch2
Audio de-emphasis	50μσ
Audio frequency response	15kHz–15MHz ±3dB
Audio output	0dBm on 1kΩ adjustable
Audio S/N ratio	>45dB unweighted
Power supply	12V stabilised 400mA
LNA – LNC power	12Vdc 250mA maximum, switchable
Dimensions	103mm x 42mm x 168mm
Working temperature	0–45°C
Monitor output for received signal	analogue meter full scale – 30dBm Dynamic 35–40dBm

Diagram of RV 2000A

