

Installation & User Guide

High definition RGBHV receive units with automatic EQ



- models covered: RAM-300, RAM-300A, RAM-300A-RS, RAM-300A-2RS

STOP

- please read this before connecting anything
- be sure that you know what is connected to each end of the cat.5/6 cable
- do not connect equipment to any other equipment via the RJ45 connection
- use only power supplies approved by MauveCom

Video

The RAM-300 unit converts *mau-jo* -encoded RGBHV video signals back into their native form for use by a display. It will also work with legacy 'duplicat' systems

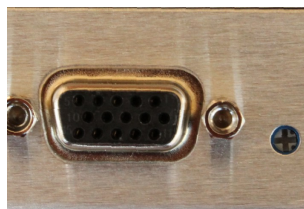
Resolutions of up to 1920x1200 are guaranteed. Correct sync polarity is delivered end-to-end (except when used with a legacy Duplicat Tx unit in which case syncs will be positive only. DDC signals are not passed.

Video equalisation (EQ) in the Rx is essential to compensate for image degradations caused by long cable cat.5/6 lengths. The RAM-300 is supplied in auto mode and automatically adjusts the EQ for cable lengths up to 300m. Manual EQ adjustment is possible by turning the EQ screw away from its fully anticlockwise setting. The EQ screw is recessed and located next to the VGA (RGBHV) output. In manual mode, the level of EQ can be increased by turning the EQ screw clockwise. Loss of image may occur if too much EQ is used

Audio

(applies only to versions with the 'A' suffix)

- line-level analogue stereo to outside world
- 24 bit 48kHz sampling for transmission
- excellent audio quality



Power

The RAM-300 range is typically ine-powered via the cat.5 cable but can also be powered directly. In this mode, the far-end Tx unit can be powered from



the UTP. Never connect a PSU rated more than 12V. Never use an unregulated PSU.

RS-232 option

(applies only to versions with 'RS' suffix)

- up to 19.2kbaud guaranteed. 38.4kbaud is possible in upstream direction (and downstream with some bit errors)
- RS' = downstream only
- '2RS' = bi-directional RS-232

Only the 'Tx' and 'Rx' lines of the RS-232 signal are transmitted - therefore flow control must be set to 'off' or handshaking should be undertaken in software

Fault-finding check list

- most reported faults are attributable to cables
- is the green power light on at both ends?
- is a Mauve approved 12V psu used at the Tx?
- check that EQ adjust is not turned too high
- are all cat5./6 cables are good?
- are all AV cables good?
- substitute all cables with known ones
- substitute 'suspect' units with known good units
- is the baud rate 19200 or lower?