



HAL COMMUNICATIONS CORP.

# THE RVD-1005 VISUAL DISPLAY UNIT



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## GENERAL

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The RVD-1005 Visual Display Unit provides the user with a silent, reliable, all electronic display of Baudot (5 level) code data when used with a video monitor or television receiver modified to serve as video monitor. Outstanding features are: reception of all four standard data rates, speed indication, manual line feed and letters case controls, selectable letters shift on space, and non-overprint capability. The RVD-1005 accepts demodulated Baudot code signals derived from radio or wire links. A maximum of 1000 characters can be displayed in a format of 25 lines of 40 characters per line.

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## SPECIFICATIONS

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### Electrical

Input Data Form: Serial Baudot (5 level) code

Input Data Signal—Voltage or current sensing

Voltage compatible with RS-232B

Mark: -5 to -15 VDC

Space: +5 to +15 VDC

Impedance: 120 ohms or greater

Current Sensing

Mark: 18-80 ma

Space: 0 - 2 ma

Impedance: 20 ohms or less

Isolation to case: 10 megohms or greater

TTL Compatible (optional)

Mark: 0 to +0.8 VDC

Space: +2.4 to +5.0 VDC

Video Output—RS-170 Standard Video

Lines Per Frame: 525, 2:1 Interlace

Line and Field Rate: 15.750 KHz, 60 Hz

Timing: Crystal Controlled to  $\pm 0.1\%$

Composite Video: 1.0 v p-p

Sense: Negative Sync

Output Impedance: 75 ohms

Peak Video Bandwidth: 3.1 MHz

Display

Display Capacity: 1000 characters

Character Format: 5 x 7 dot matrix

Page Format: 25 lines, 40 characters per line

Characters Displayed: 26 Alphabetic

10 Numeric

16 Punctuation

Up to 10 special European characters may be displayed with the deletion of some of the above characters.

Physical

Cabinet Finish: Light gray front and rear panels;  
Textured dark gray top, bottom, and sides.

Cabinet Style: Table or Rack Mount

Size: Table: 3.5 H x 9 D x 17 W (inches)  
8,9 H x 22,9 D x 43,2 W (cm)

Rack: 3.5 H x 9 D x 19 W (inches)  
8,9 H x 22,9 D x 48,3 W (cm)

Weight: 7.5 lbs. (3,4 kg) net, 11 lbs. (5,0 kg) shipping

Power: 105-125 VAC (210-250 VAC optional), 50-60 Hz 25 watts

Input Data Rate:

45 baud ( 60 WPM, select time = 22.0 msec.)

50 baud ( 66 WPM, select time = 20.0 msec.)

57 baud ( 75 WPM, select time = 17.57 msec.)

74 baud (100 WPM, select time = 13.47 msec.)

Any baud rate to 400 baud (optional)

Data Rate Stability: Crystal Controlled to  $\pm .05\%$

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## OPTIONAL EQUIPMENT

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### RVD-2110 Monitor/TV

The RVD-2110 monitor/TV is a solid state set with 38 square inch (9 inch diagonal measure) picture and BNC connector for video input. It operates from 120 VAC or 12 VDC.

### Other Monitors

HAL can supply broadcast quality video monitors in 9, 11, 14, 17 and 23 inch diagonal measure. Please refer to the video monitor data sheet.

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## ORDERING INFORMATION

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When ordering the RVD-1005, specify table or rack mount cabinet, TTL compatible input in place of RS-232B compatible input, and any special characters required.

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### Manufactured by:



**HAL Communications Corp.**

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### Representative or Distributor:

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