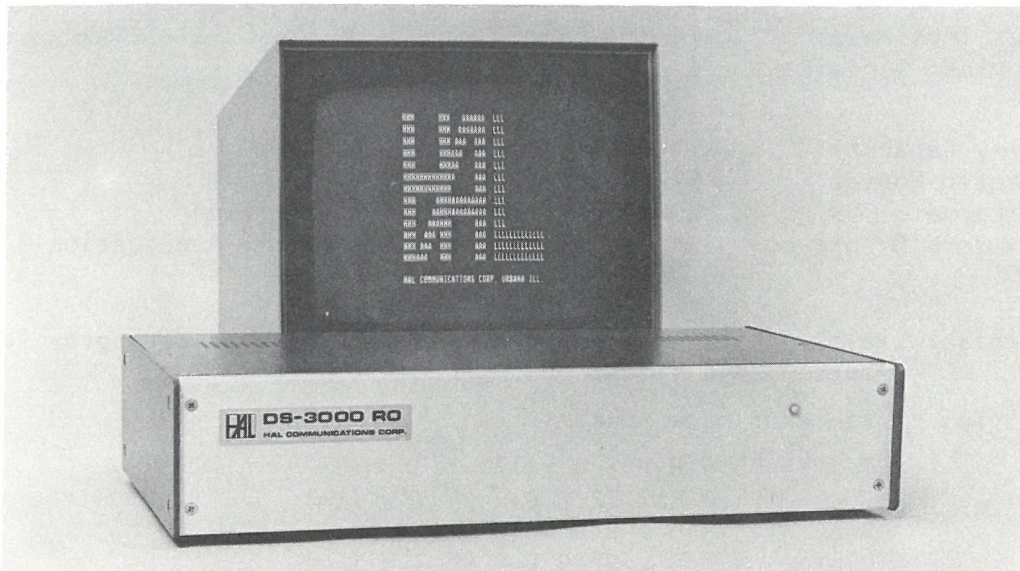




# DS-3000 RO VIDEO DISPLAY UNIT HAL COMMUNICATIONS CORP.



## GENERAL

The DS-3000 RO employs the latest developments in integrated circuit technology to provide a silent, reliable, all electronic display of Baudot (5 level) code data. The DS-3000 RO uses the powerful 8080 microprocessor family of integrated circuits to achieve a video display unit offering a 1440 character display, organized as 20 lines of 72 characters per line, reception of all four standard speeds, letters shift on space, and non-overprint capability. The DS-3000 RO accepts demodulated Baudot code signals derived from radio or wire links, and provides a standard video signal to the optional video monitor.

## SPECIFICATIONS

### Electrical

Input Data Form: Serial Baudot (5 level) code.

Input Data Signal - Voltage or current sensing

Voltage compatible with RS-232C

Mark: -5 to -15 VDC

Space: +5 to +15 VDC

Impedance: 120 ohms or greater

Current Sensing (optional)

Mark: 18 - 120 ma

Space: 0 - 2 ma

Impedance: 20 ohms or less

Isolation to case: 10 megohms or greater

### 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.)

Higher baud rates are optional. Consult factory for applications assistance.

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

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 +/- 0.1%
Composite Video: 1.0 v p-p
Sense: Negative Sync
Output Impedance: 75 ohms
Peak Video Bandwidth: 6.2 MHz

Display

Display Capacity: 1440 characters
Character Format: 5 x 7 dot matrix
Page Format: 20 lines, 72 characters per line
Characters Displayed: 26 Alphabetic; 10 Numeric; 16 Punctuation

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.

OPTIONAL EQUIPMENT

Video 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.

ORDERING INFORMATION

When ordering the DS-3000 R0, specify table or rack mount cabinet, current loop input or RS-232C input, and video monitor, if desired.

DS-3000 R0. . . . . \$975.00
Current Loop Option . . . . . 25.00

FOB Urbana, Ill. All prices include USA shipping. For air shipment, add \$10.00.

Manufactured by:

Representative or Distributor:



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ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT ADVANCE NOTICE.

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