



## FEATURES

- Remote Spectrum Display
- Up To Four Selectable IF's
- Trace Averaging
- Normalization
- RS-232C, RS-422 or MIL-188-114 Data Link
- IEEE-488 or RS-232C Computer Control

## DESCRIPTION

The Model 692 Remote IF Display provides a conventional IF spectrum display at a location remote from the receiver via a serial data link suitable for transmission over a customer-supplied communications channel. The Model 692 consists of three sections: the Receiver Interface Unit located at the receiver, and the Video Interface and Display Unit located at the remote site.

The Receiver Interface Unit accepts an IF input (8.83, 10.7, 21.4 or 160 MHz are available) and provides a digital output to the data link. Up to six receivers and four IF's can be accommodated by a single Receiver Interface Unit when the Receiver/IF Switch (Option S06) is installed. A data rate of approximately 16k Baud



Model 692-R, Front View

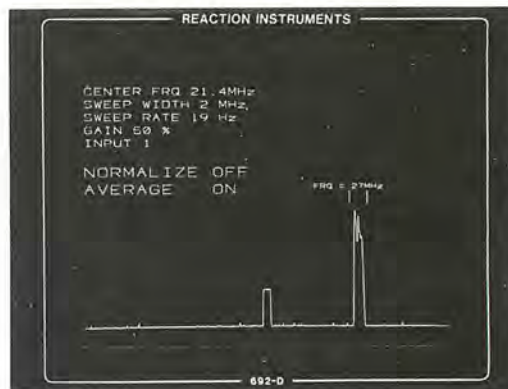


Model 692-R, Rear View

is recommended, but the unit will function properly at 10k Baud. Slower data rates are accommodated by data smoothing using a digitally refreshed display technique. A user-supplied computer is required to control receiver and IF selection as well as normal operator controls of gain, sweep width, sweep rate, response, marker and sweep direction. Non-volatile memory ensures that programmed control set-ups are saved during accidental power loss.

The Video Interface and Display Unit operate together as a computer-controlled spectrum display with on-screen alphanumeric annotation. The user's computer can control the alphanumeric and graphics as well as the processing spectrum data. Processing features include real-time multiple trace averaging and trace normalization. The latter is accomplished by saving a trace and subtracting it from the active display data.

The Model 692-R Receiver Interface Unit is packaged in a 1 3/4 inches high, full-rack chassis. The Model 692-V Video Interface Unit and the Model 692-D Display Unit are each packaged in a 5 1/4 inches high, half-rack chassis. Other packaging configurations are optionally available. Exceptional EMI/RFI integrity minimizes conducted and radiated signals.



Model 692-D Display shown with user-generated graphics

## SPECIFICATIONS

<b>Input Center Frequency</b>	21.4 and 160 MHz (standard) Up to 2 additional with optional converters (requires Option S06)
<b>Number of Inputs</b>	1 (standard) or 6 (with Option S06)
<b>Input Impedance</b>	50 ohms
<b>Sweep Width</b>	6 MHz at 21.4 MHz IF 30 MHz at 160 MHz IF 6 MHz at optional 8.83 and 10.7 MHz IF's
<b>Sweep Rate</b>	5 Hz to 25 Hz
<b>Sensitivity</b>	-90 dBm
<b>Gain Control</b>	50 dB
<b>Response</b>	Log or linear (computer selectable)
<b>Resolution</b>	40 kHz (standard, others available)
<b>Physical Characteristics</b>	
<b>Receiver Interface Unit</b>	
<b>Connectors (Rear Panel)</b>	IF Input: 1 BNC (standard) or 6 (Option S06) Data Link: RS-232C, RS-422 or MIL-188-114 Control: IEEE-488 and RS-232C
<b>Controls (Front Panel)</b>	Power
<b>Power</b>	25 watts 115/230 Vac, 47-440 Hz
<b>Temperature</b>	0° to 50° C

<b>Style</b>	Full-rack chassis, 1-3/4 inches high by 20 inches deep (other configurations available)
<b>Weight</b>	15 lbs.
<b>Video Interface Unit</b>	
<b>Connectors (Rear Panel)</b>	Data Link: RS-232C, RS-422 or MIL-188-114 Control: IEEE-488 and RS-232C
<b>Controls (Front Panel)</b>	Power
<b>Power</b>	115/230 Vac, 47-63 Hz 45 watts
<b>Temperature - Operating</b>	0° to 50°C
<b>Style</b>	Half-rack chassis, 5-1/4 inches high by 20 inches deep.
<b>Weight</b>	15 lbs.
<b>Display Unit</b>	
<b>Controls - (Front Panel)</b>	Focus, Intensity
<b>CRT</b>	Electrostatic, 3.9 inches by 4.8 inches
<b>Power</b>	Supplied by Video Interface Unit
<b>Temperature - Operating</b>	0° to 50° C
<b>Style</b>	Half-rack chassis, 5-1/4 inches high by 20 inches deep
<b>Weight</b>	15 lbs.

Specifications are subject to change without notice.

## ORDERING INFORMATION

The three sections of the Model 692 Remote IF Display are sold separately in accordance with the following ordering information:

A standard Model 692-R Receiver Interface Unit accepts input center frequencies of 21.4 and 160 MHz and provides either an RS-232C, RS-422 or MIL-188-114 data interface. The data interface must be specified at time of order. IF inputs of 10.7 and/or 8.83 MHz are available as options and, if desired, require the optional Receiver/IF Switch (Option S06).

The Model 692-V Video Interface Unit provides either an RS-232C, RS-422 or MIL-188-114 data interface, which must be specified to match the desired data interface for the 692-R Receiver Interface Unit.

The Model 692-D Display Unit, which operates together with the Model 692-V Video Interface Unit.

When ordering, please specify:

<b>692-R</b>	Receiver Interface Unit	<b>Option I55</b>	MIL-188-114 Data Interface (not available with I25 or I45)
<b>Option S06</b>	Receiver/IF Switch	<b>692-V</b>	Video Interface Unit
<b>Option C04</b>	10.7 MHz IF Input (requires Option S06)		One of the following options must be specified to match the one selected for the 692-R Receiver Interface Unit:
<b>Option C05</b>	8.83 MHz IF Input (requires Option S06)	<b>Option I25</b>	RS-232C Data Interface (not available with I45 or I55)
	One of the following options must be specified to match the one selected for the 692-V Video Interface Unit:	<b>Option I45</b>	RS-422 Data Interface (not available with I25 or I55)
<b>Option I25</b>	RS-232C Data Interface (not available with I45 or I55)	<b>Option I55</b>	MIL-188-114 Data Interface (not available with I25 or I45)
<b>Option I45</b>	RS-422 Data Interface (not available with I25 or I55)	<b>692-D</b>	Display Unit



Model 692-D and 692-V, Rear View

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