
HP 71910A and 71910P Wide Bandwidth Receiver

Configuration Guide

100 Hz to 26.5 GHz

The HP 71910A/P is a receiver for monitoring signals from 100 Hz to 26.5 GHz. It provides a cost effective combination of search and wide-bandwidth collection capabilities for surveillance and signal monitoring applications. Its flexibility makes it an ideal downconverter in stimulus-response applications.

To search for signals, it sweeps over user-specified spans up to 26.5 GHz wide using bandwidths up to 3 MHz. A wide dynamic range ensures signals of various amplitudes are quickly identified.

Once a signal is located, the receiver is fixed-tuned and the wide IF bandwidths are used for signal collection. (Bandwidths up to 36 MHz are available with microwave preselection, and up to 100 MHz unpreselected). A linear IF signal path provides good signal fidelity with standard outputs of 321.4 MHz IF and linear video. Optional outputs include 70 and 140 MHz IF, analog I/Q, and demodulated FM.

Ordering Information

HP 71910A/P Wide Bandwidth Receiver

Important: Options 001 through 007 are circuit boards. There are only four circuit board slots available. Option 004 consists of two circuit boards. When ordering, be certain the total number of circuit boards does not exceed four.

- Option 001** 70 MHz IF output (**one board**)
- Option 002** 140 MHz IF output (**one board**)
- Option 004** Analog I/Q output (**two boards**)
- Option 005** FM output (**one board**)
- Option 007** 70 MHz IF channel filters (**one board**) requires Option 001

- Option 011** Single mainframe configuration
(deletes HP 70004A, 70902A, 70903A, and 70310A)
- Option 012** Add HP 70310A to Option 011 configuration
- Option 013** Add HP 70902A to Option 011 configuration
- Option 014** Add HP 70903A to Option 011 configuration
- Option 016** Add HP 70620B Option 001 preamplifier (100 kHz to 26.5 GHz)
- Option 017** Add HP 70620B preamplifier (1 GHz to 26.5 GHz)
- Option 100** Delete HP 70902A IF from standard configuration
- Option 101** Delete HP 70903A IF from standard configuration
- Option 110** Delete HP 70310A precision frequency reference
from standard configuration
- Option 121** Add distribution amplifier to HP 70310A
- Option 122** Delete oven from HP 70310A
- Option 200** Delete HP 70004A display/mainframe
(operation and control over HP-IB only,
requires additional HP 70001A mainframe)
- Option 205** Substitute HP 70205A display
for HP 70004A display/mainframe
(requires additional HP 70001A mainframe) (HP 71910A only)
- Option 400** Add 400 Hz power line frequency operation to
HP 70001A mainframe; adds 2.3 kg (5 lb) isolation transformer
(HP 71910A only)
- Option 660** Add HP 8566B programming manual
- Option 810** Rack mount slide kit for both HP 70001A mainframe
and HP 70004A display/mainframe
- Option 0B1** Extra user manual set containing (a) installation/verification,
(b) operation, and (c) program language reference
- Option 0B3** Service manual and module verification software
- Option AX4** Rack flange kit to mount HP 70001A mainframe and
HP 70004A display/mainframe without handles
- Option AXE** Rack flange kit to mount HP 70001A and HP 70004A with handles
- Option W30** Three-year customer return repair
- Option 8ZE** Refurbished HP 71910A system (HP 71910A only)

Ordering Information

Compatible accessory modules and analysis tools:

Oscilloscopes	HP 70703A; 20 MS/s, HP 54610A; 20 MS/s,
Digitizer	HP 70700A; 20 MS/s, 256 K RAM
Power Meter	HP 70100A; -70 to +44 dBm
Attenuator/Switch Driver	HP 70611A
Interface Modules	HP 70612A/C, HP 70613A/C
Custom Switching	Call your HP sales representative
Vector Signal Analyzer	HP 89410A; DC to 10 MHz
Baseband Signal Analyzer	HP 3587S; DC to 4 MHz
RAM Card	HP 82215A (128 k), HP 85700A (32 k)
MATE Module	HP 70590A/H69 & H72

Software available from Hewlett-Packard Company.

Receiver personality (included when HP 71910A/P is ordered)

HP 11990A performance verification software

Features and compatibility

HP 70004A system features used: memory card reader, keyboard (for title mode and writing short down-loadable programs), direct plot (buffered), direct print, color display

Internal mass storage: 1 Mbyte RAM provided, approximately 750-kbytes available to user, approximately 2.7-kbytes required to store an 800-point trace with its state. System memory is reduced when slave modules are added.

For more information about Hewlett-Packard test and measurement products, applications, services, and for a current sales office listing, visit our web site, <http://www.hp.com/go/tmdir>. You can also contact one of the following centers and ask for a test and measurement sales representative.

United States:

Hewlett-Packard Company
Test and Measurement Call Center
P.O. Box 4026
Englewood, CO 80155-4026
1 800 452 4844

Canada:

Hewlett-Packard Canada Ltd.
5150 Spectrum Way
Mississauga, Ontario L4W 5G1
(905) 206 4725

Europe:

Hewlett-Packard
European Marketing Centre
P.O. Box 999
1180 AZ Amstelveen
The Netherlands
(31 20) 547 9900

Japan:

Hewlett-Packard Japan Ltd.
Measurement Assistance Center
9-1, Takakura-Cho, Hachioji-Shi,
Tokyo 192, Japan
Tel: (81) 426-56-7832
Fax: (81) 426-56-7840

Latin America:

Hewlett-Packard
Latin American Region Headquarters
5200 Blue Lagoon Drive, 9th Floor
Miami, Florida 33126, U.S.A.
(305) 267 4245/4220

Australia/New Zealand:

Hewlett-Packard Australia Ltd.
31-41 Joseph Street
Blackburn, Victoria 3130, Australia
1 800 629 485

Asia Pacific:

Hewlett-Packard Asia Pacific Ltd.
17-21/F Shell Tower, Times Square,
1 Matheson Street, Causeway Bay,
Hong Kong
Tel: (852) 2599 7777
Fax: (852) 2506 9285