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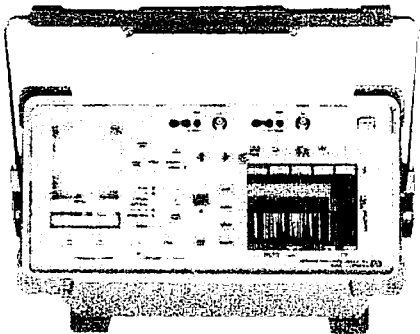
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# TELECOMMUNICATIONS TEST EQUIPMENT

Digital Transmission Analyzers  
HP 3764A, 37721A

549

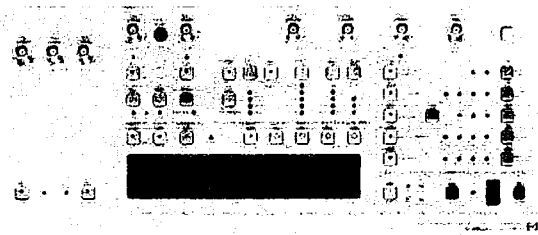
- HP 37721A
- Bit & code error testing at 704 kbit/s, 2, 8, 34 & 140 Mbit/s
  - Portable, lightweight & rugged
  - Text & graphic results on large display
  - Stored setups & autoseup for ease of use
  - Remote control, frequency offset & measurement, multiple outputs



HP 37721A



- HP 3764A
- Error & jitter measurements at 140 Mbit/s or error measurements at 704 kbit/s, 2, 8, 34 & 140 Mbit/s
  - Internal synthesizer for measurements from 1 kbit/s to 170 Mbit/s at binary interfaces
  - Powerful data logging to internal or external printer
  - Fast, easy measurement setup using stored presets



HP 3764A  
Option 007



## HP 3764A Digital Transmission Analyzer

The HP 3764A digital transmission analyzer is available in a number of different versions to cover a wide range of telecom and general purpose test applications. Each one offers pattern generation and error detection at coded and binary interfaces, and an HP-IB port for remote control operation.

A version of the HP 3764A with combined error and jitter performance measurements at 140 Mbit/s is ideal for production test of telecom equipment. It can be further enhanced with a through-data mode to allow jitter to be added to any 140 Mbit/s signal passing through the instrument.

- ### Applications
- Production testing of digital transmission equipment
  - Installation and maintenance of digital networks
  - Demultiplexer testing using through-data mode to add jitter to a structured signal
  - Long-term unattended monitoring with error performance analysis based on CCITT Recommendation G.821

### Measurement Summary

**Error analysis:** Error count, error ratio, error seconds, error-free seconds, % unavailability, % severely-degraded seconds, % degraded minutes. All measurements are made simultaneously and in accordance with CCITT Recommendation G.821.

**Jitter analysis:** Peak-to-peak amplitude, jitter hit count, jitter hit rate, jitter hit-free seconds. Internal filters to CCITT Recommendation O.171 are available for performing selective jitter measurements. Where a greater degree of selectivity is required, a demodulated jitter output allows connection of external equipment such as a spectrum analyzer.

### Ordering Information

HP 3764A digital transmission analyzer	\$11,610
Opt 002 Jitter generation and measurement at 140 Mbit/s	+ \$3,115
Opt 007 Jitter generation and measurement at 140 Mbit/s with through-data mode plus clock synthesizer	+ \$7,070
Opt 006 Error performance at 704 kbit/s, 2, 8, 34 & 140 Mbit/s plus clock synthesizer	+ \$2,730

### Ordering Information

HP 37721A digital transmission analyzer	\$7,670
Opt 001 Remote control	+ \$645
Opt 002 Multiple outputs	+ \$1,720
Opt 003 Frequency offset	+ \$1,075

### Measurement Summary

**Error analysis:** As CCITT Recommendation G.821.

**Results displayed:** Elapsed time in test period; error seconds, % errored seconds, error-free seconds, % severely-degraded seconds, % unavailability, % degraded minutes; code-error seconds; bit error count, bit error ratio; code error count, code error ratio; frequency, frequency offset; and alarms.

### Applications

- Maintenance of digital networks (PTTs, other network operators)
- Installation of digital networks (PTTs, network operators, manufacturers)
- Long-term unattended monitoring with error performance analysis based on CCITT Recommendation G.821

Option 001 provides remote control via RS-232-C and HP-IB interfaces and adds the ability to log results to an HP ThinkJet. Multiple outputs in Option 002 enable simultaneous loading of four channels of a multiplexer or digital radio with only one test set. With Option 003, up to 100 ppm of frequency offset is provided at all rates to evaluate clock-recovery circuits.

A key feature of the HP 37721A is its ease of use: the autoseup facility automatically configures the test set to the incoming data; nine stored setups ensure that required test parameters are instantly available; graphic display of results shows error counts, error seconds and alarms at a glance; and a range of logging options to an internal or external printer provides customized hard-copy proof of results.

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