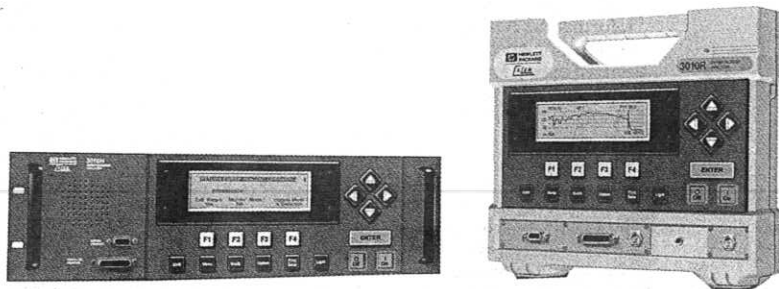


HP CaLan
3010R
HP CaLan
3010H

- Ingress detection
- Exclusive DigiSweep technology
- Built-in digital carrier power measurement
- TDMA and Bursted Power

- Built-in reverse sweep transmitter covers 5 to 1000 MHz
- Headend unit supports up to ten field units
- Rugged and easy to use



The HP CaLan 3010R and 3010H Sweep/Ingress Analyzer

HP CaLan Sweep/Ingress Analyzer

The HP CaLan sweep/ingress analyzer gives you confidence that your cable system is operating reliably by helping you to eliminate ingress. Designed with ingress in mind, this new solution consists of a portable field unit (HP CaLan 3010R) and a rackmount headend unit (HP CaLan 3010H).

When ingress corrupts return-path communication, the 3010H instantly detects the problem and transmits a "picture" of the ingress through the forward data pilot. This image will be displayed on the 3010R so your technician can begin troubleshooting immediately. The 3010H can support up to ten 3010Rs simultaneously. The display will advise you which 3010Rs are currently active in the field.

With the addition of Option 052 forward dual path option, you'll be armed with a complete forward, reverse sweep and ingress analysis tool. The forward sweep is still compatible with the 1777 transmitter.

DigiSweep Technology

The HP CaLan sweep/ingress analyzer offers our exclusive DigiSweep technology. DigiSweep is the industry's fastest high-resolution, non-interfering, digital services-compatible sweep. Its fast on/off speed and accurately-placed sweep pulses quickly sweep your forward and return paths without interference. The 401 points of sweep resolution give you the ability to see reflection, diplexer, and other response problems not visible with four carrier generators or other lower-resolution approaches. DigiSweep's five microsecond duration pulses allow placement close to digital signals without interference. This combination of features gives you the highest-available amplitude accuracy and frequency resolution of any sweep technology.

Specifications Summary

Digital Signal Power Levels

Formats: QAM, QPR (DMX), QPSK, and VSB
Amplitude Accuracy: ± 1.5 dB (typical)

Frequency

Range: 5 MHz to 1 GHz
Accuracy: ± 25 kHz
Resolution: 10 kHz
Tuning Configuration: Standard, Off Air VHF/UHF, HRC, IRC, SECAM, PAL, and user-defined
IF Bandwidth: 230 kHz
Video Bandwidth: 300 kHz, automatic 10 Hz in C/N

Level

Range: -45 to +70 dBmV
Accuracy
Calibrator: ± 0.25 dB @ 113.36 MHz, ± 0.2 MHz
Frequency Flatness: ± 0.5 dB
Attenuator: ± 0.5 dB
Log Linearity: ± 0.5 dB
Typical Overall Accuracy: ± 1.0 dB
Resolution: 0.1 dB
Difference Range: 0-25 dB
Relative Accuracy: ± 0.75 dB
Input Impedance: 75 ohms
Input Match: > 14 dB, 0 dB attenuation; > 20 dB, attenuation > 0 dB

Sweep

Receiver: HP CaLan 3010R compatible with HP CaLan 1777/1777P forward sweep transmitter

Sweep Width: Continuously variable

Frequency Resolution: 223 to 401 data points

Minimum Sweep Time: 800 ms

Sweep Tables: 4 user-definable tables for 350 carriers

Hum

Range: 0.5 to 5%

Resolution: 0.1%

Accuracy: $\pm (0.2\% + 30\%$ of reading)

Carrier-to-Noise (with external preselector)

Range: 50 dB typical; 55 dB typical, measured in-band with carrier off

Accuracy: ± 2 dB

Repeatability: ± 1 dB

General

Size: HP 3010H: 483 mm W x 133 mm H x 292 mm D (19 in W x 5.25 in H x 11.5 in D)

HP 3010R: 95 mm W x 317 mm H x 267 mm D (10.5 in W x 12.5 in H x 3.75 in D)

Weight: HP 3010H: 4.31 kg (9.5 lb.);

HP 3010R: 4.8 kg (10.7 lb.) with battery

Power: HP 3010H: 90 to 264 Vac, 47 to 63 Hz, 20 VA max.;

HP 3010R: +10 to +15 Vdc @ 550 mA max.

Battery: 12 V (1.9 AH) rechargable lead acid

Usage Time: 4 hrs. continuous; 12 hrs. typical; battery-saving sleep mode for 3010B

Display Area: 127 mm x 33.8 mm (5.00 in x 1.33 in)

Resolution: 240 x 64 pixels

Type: LCD with EL backlight

Temperature

Operating: HP 3010H: 0° to +55°C; 3010R: -20° to +55°C

Storage: HP 3010H and HP 3010R: -20° to +70° C

Fiber Power Meter Option

Wavelength: 1310 and 1550 nm

Measurement Range: -38 to +20 dBm @ 1310 nm; -38 to +18 dBm @ 1550 nm

Resolution: 0.1 dB

Accuracy: $\pm 5\%$

Display: dB, dBm, mW, microW, nanoW

Connector Styles: ST, FC, biconic, D4, SMA, or bare fiber, rotary splice, RM

Ordering Information

	Price
HP 85962B HP CaLan 3010R Sweep/Ingress Analyzer	\$6,070
Opt 030 Cable TV Data Management Software with FCC Reports	+\$969
Opt 031 Cable TV Data Management Software	+\$663
Opt 052 Dual Path Sweep	\$3000
HP 85963B HP CaLan 3010H Sweep/Ingress Analyzer	\$6,070
Opt 030 Cable TV Data Management Software with FCC Reports	+\$969
Opt 031 Cable TV Data Management Software	+\$663
Opt 050 Forward Sweep Transmitter	\$0
Opt 052 Dual Path Sweep	\$3000