

# 3010H™ and 3010R™

## Signal/Sweep Analyzers

### Data Sheet



**The 3010H and the 3010R signal/sweep analyzers offer a range of solutions.**

Whether for routine maintenance or new interactive network installations, the 3010H and 3010R offer a range of solutions. Both instruments cover the entire 5 MHz to 1GHz frequency range with exceptional speed – 60 channels of visual and aural carriers in less than 2 seconds and offer a spectrum scan mode for ingress and interference testing.

The 3010H is a rack-mounted Headend unit that supports up to ten field instruments simultaneously in the return path mode, and an unlimited number of field units as a forward sweep transmitter. These functions may be dedicated or combined to allow forward and return sweep in a single unit.

The 3010R is a battery-powered portable field instrument with Forward Sweep, Return Sweep, Digital Power mode, Ingress Measurement Suite and Signal Level Meter (SLM) capabilities. With option 052 installed in the 3010R, the instrument can be used as a battery operated 3010H.

The 3010 Series gives you confidence that your broadband system is operating reliably and that you are delivering quality, distortion-free signals to your subscribers. Both models incorporate DigiSweep technology, the industry's fastest, high resolution sweep.

## KEY FEATURES

- Fast and accurate bi-directional Sweep for network maintenance
- Channel and Spectrum Scans modes
- Automated 24-hour tests for FCC reports
- Return Path Ingress Measurement Suite
- Node switching for troubleshooting individual nodes (up to 128 per 3010H)
- Can share AT1602 switches with realWORX
- Rugged, portable field units
- Dual Path mode
- Fiber Power Meter option (3010R)
- Long battery life, use for the entire day without charging on a full charge

## BENEFITS

- The 3010 Fast Sweep helps technicians perform their task faster and easier compared to other solutions
- Accidents happen, but the rugged 3010R is able to handle it minimizing repair costs
- Flexible spectrum scan capability for ingress and interference testing
- Node switching lets techs work independently and efficiently to troubleshoot ingress problems
- Higher resolution sweep identifies problems other sweep systems miss
- Bright, monochrome LCD display visible in direct sunlight with built-in back light for working in the low light levels
- Cost effective Field Maintenance tool

## APPLICATIONS

The 3010H/R sweep system is the ideal tool for the Sweep or Service Maintenance Technician to align and maintain your HFC network.

- Rack space in the Headend is limited. By utilizing the Dual Path mode, 3010H eliminates the need for a separate Forward Sweep transmitter and Return Path monitor.
- Manually switching nodes for sweeping can be time consuming, affecting multiple technicians or increasing drive time. The 3010H can control up to eight switches for a total of 128 nodes automatically.
- The Return Spectrum and Spectrum Scan modes are used to troubleshoot ingress in any portion of the network. The Return Spectrum mode in the 3010R allows you to control the Spectrum Scan measurement and the switches connected to the 3010H from the field. The Spectrum Scan mode in the 3010R is used to measure ingress in the upstream or distortions in the Downstream in any portion of the network.
- Input and output light levels can be checked easily at the node using the optional Fiber option to insure proper operation of the Fiber network. 3010R supports ST, Biconic, FC, D4, RM, SC and bare fiber with the appropriate adapter cap. The 3010R measures wavelengths of 1310 nm (+20 to -38 dBm) and 1550 nm (+18 to -38 dBm).
- System rough balance is quickly accomplished using the Four Channel mode. Each of the four channel bars can be programmed with limit lines indicating the proper level required for one of four specific test point selections.
- Channel Scan is a quick way to view the levels of all channels on the network in one screen. Channel Scan can be used to perform the semi-annual FCC 24-hour test. Channel Scan measurements stored in the instrument can be quickly checked to make sure they pass the FCC requirement by viewing the FCC Pass/Fail report in the instrument or by sending the report to a printer.

## ORDERING INFORMATION

85963A	CaLan 3010H Headend Sweep/Ingress Transmitter Includes Dual Path mode, Switch control, Power Cable and Manual
85962A	CaLan 3010R Dual Path Sweep/Ingress Analyzer Includes Charger, Carry bag, and Manual
85962A-052	85962A Option (3010R) Forward sweep Transmitter Option (same functionality as 3010H)
3010R-CM	Service Combo Kit (3010R/CM1000)

### Options (3010H, 3010R)

SB103	Cloning Cable for 3010R and 3010H
SB150-020	Fiber-Optic power meter
SB150-021	Fiber ST connector adapter cap
SB150-022	Fiber Biconic connector adapter cap
SB150-023	Fiber FC connector adapter cap
SB150-024	Fiber D4 connector adapter cap
SB150-025	Fiber RM connector adapter cap
SB150-026	Bare fiber adapter
SB150-027	Bare fiber adapter kit
SB150-028	Fiber SC connector adapter cap

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