



# CaLan 3010H+

## Sweep System for DOCSIS 3.1

The CaLan 3010H+ Sweep System is designed for prequalification, installation, and maintenance of DOCSIS 3.1 networks.

DOCSIS 3.1 deployments utilize previously unused and untested frequency spectrum exposing potential trouble for operators. Initial Downstream expansions are expected to go to 1.2 GHz, evolving later to 1.8 GHz, while the Return Path will extend to 85 MHz or 204 MHz depending on market or MSO service delivery objectives.

The completely redesigned CaLan 3010H+ Headend unit features multiple key enhancements for DOCSIS 3.1 network deployment and expansion. The unit consists of a high performance, 1.8 GHz Transmitter and a low noise, 204 MHz Receiver, capable of sweeping the entire Forward and Return path respectively.

The 3010H+ is a 1U rack-mounted Headend unit that supports up to 15 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 3010H+ works in conjunction with a range of VeEX products including the new AT3000 RF Switch Multiplexer, the CX380s-D3 and the newly released CX380s-D3.1 platform. The 3010H+ is also compatible with legacy CM2800 and CM3800 test sets.

The upgraded CaLan Sweep System not only delivers the same tried and tested, peace of mind performance as its predecessor, but protects previous test equipment investments of key MSOs through backwards compatibility with legacy CaLan sweep spectrums.

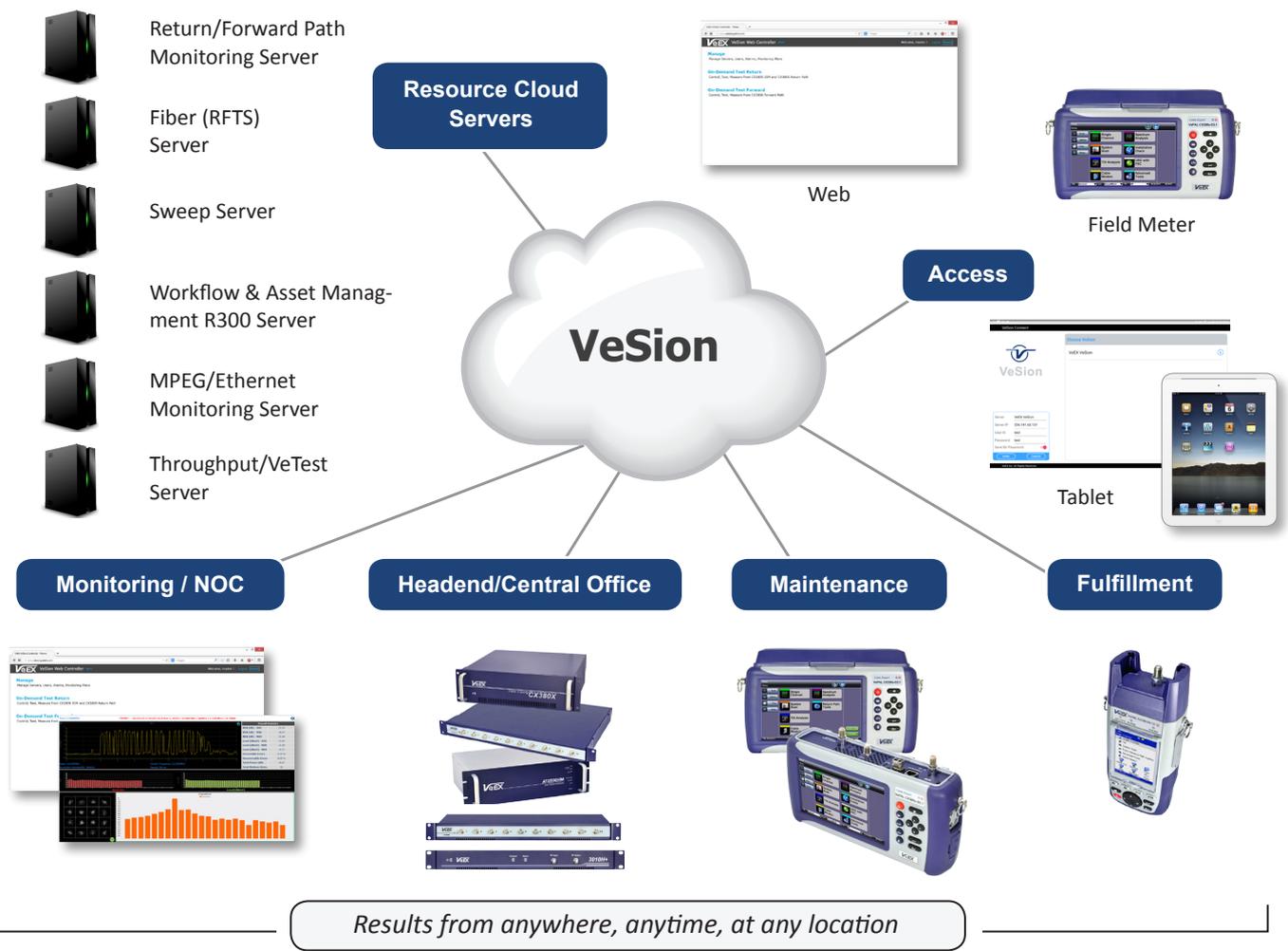
## Key Features

- High resolution true non-interfering 1.8 GHz downstream sweep system with Manual and Automatic Gain & Slope Offsets
- 1U 19 inch Rackmount form factor, saving critical rack space in the Headend
- Fast and accurate Sweep for network maintenance
- Channel and Spectrum Scans modes
- Full integration with VeSion system, supporting centralized control for sweep profiles and data collection, making it ideal for unmanned Headends
- Compatible with CX380s series and CM series field test sets
- Works with the AT3000 RF Switch Multiplexer
- Combined with Sweepless Sweep for a complete Forward Path Sweep, up to 1.8 GHz
- Return Path Sweep up to 204 MHz

## Benefits

- DigiSweep Fast Sweep technology helps maintenance technicians perform their task faster and easier than other solutions
- Non-Interfering Downstream Sweep for Analog and Digital Channels
- Dual Path mode eliminates the need for a separate Forward Sweep and Return Sweep instruments
- Higher resolution sweep identifies problems other sweep systems miss
- Automatic recovery following power outages

**Cloud-Based One System Platform**



**Specifications**

**Sweep Source (Forward)**

Output Frequency Range	5 MHz to 1800 MHz
Output Level Range	+10 dBmV to +50 dBmV
Level Accuracy	±1 dB
Source Output Return Loss	>10 dB
Sweep Pulse Frequency Accuracy (5 MHz to 1800 MHz)	>30 kHz

**Sweep Receiver (Return)**

Input Frequency Range	5 MHz to 204 MHz
Input Level Range	-10 dBmV to +15 dBmV
Input Frequency Resolution	10 kHz
Input Return Loss	>10 dB
SNR (Avg) Comm. Ch. Detection	25 dB Min.
Spurious	<-45 dBc
DC Blocking	200 VDC

**Data Transmission Pilot**

Range	5 MHz to 1800 MHz
Data Carrier Modulation Bandwidth	<100 kHz

**General Specifications**

Size (H x W x D)	1.75" x 19" x 11.75" - 1 RU (Rack Units) high
Weight	8 lbs (3.628 kg)
Operating Temperature	5°C to +40°C
Storage Temperature	-40°C to +70°C
Power	100-240 VAC, 50-60 Hz / 15VDC, 4.6A



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