



9" x 6" x 2" (23 x 15 x 5 cm)
Weighing only 5 lbs/<2.3 kg
Patent Pending

SWP-BOX™

Field Portable Sweep Transmitter for DOCSIS 4.0

Rugged, battery operated device for qualification and maintenance of CATV Plant Spectrum Expansion to 1.8 GHz. Comprises a complete field Sweep System with the CX380C Field Maintenance Meter.

The next stages for DOCSIS based broadband services require utilizing previously unused and untested frequency spectrum, exposing potential trouble for Cable Operators. Current DOCSIS 3.1 deployments typically use legacy 1 GHz spectrum, limiting deliverable bandwidth. The next step for DOCSIS 3.1 deployment increases usable spectrum to 1.2 GHz and down the road, DOCSIS 4.0 Extended Spectrum expands the cable plant to 1.8 GHz. Preparation and testing of the RF plant is essential to ensure proper signal transmission, especially for the extended spectrum. Upgraded Active and Passive components, main line cable, and associated connectors need to be verified. Sweep is a tried and true test method to achieve this. With its 1.8 GHz frequency range, the new patent pending SWP-BOX has multiple key features to facilitate the next phases of DOCSIS network expansion.

Highlights

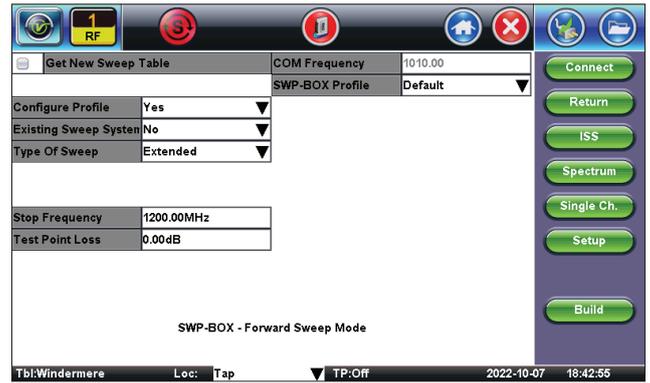
- SWP-BOX* is a portable, rugged, water tight, and battery operated SWEEP Transmitter and Receiver, that is ideal to connect directly to the output source of a Node, Amplifier or R-PHY device
- Field portability and ease-of-use makes the SWP-BOX a game changer for plant pre-qualification, yielding significant time and cost savings

Key Features

- World's first portable Sweep transmitter designed for DOCSIS 4.0 Extended Spectrum, with 1.8 GHz range
- Compatible with CX380C Maintenance Meter
- Fast and accurate Sweep for network maintenance
- Supports Forward and Return Sweep
- Combined with In Service Sweep for a complete Forward Path Sweep, up to 1.8 GHz
- Portable unit weighing 5 lbs/2.3 kg
- Full integration with VeSion® R-Server system, supporting centralized control for Sweep profiles and data collection, making it ideal for unmanned Headends
- High resolution, Non-Interfering Downstream Sweep System with Manual and Automatic Gain & Slope Offsets
- Battery operation: >12 hours

**Patent pending*

Sweep Application



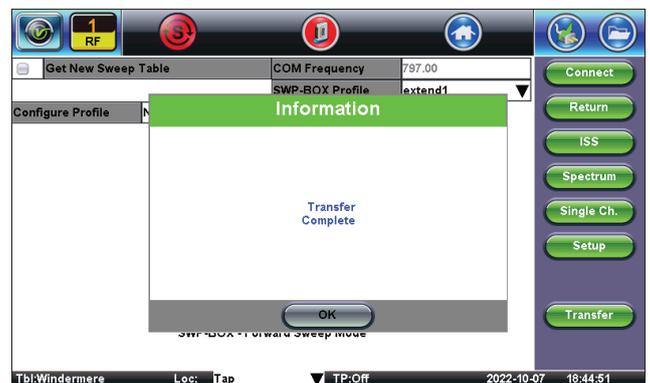
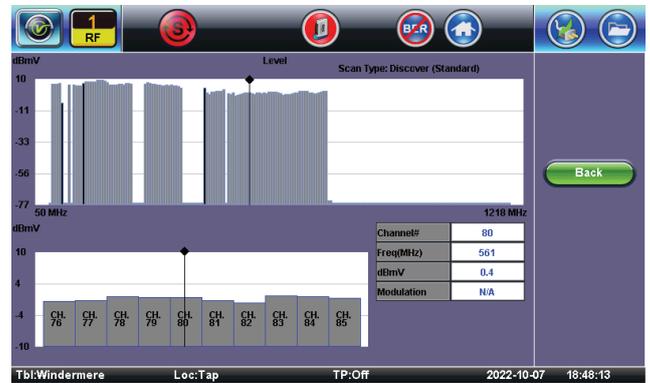
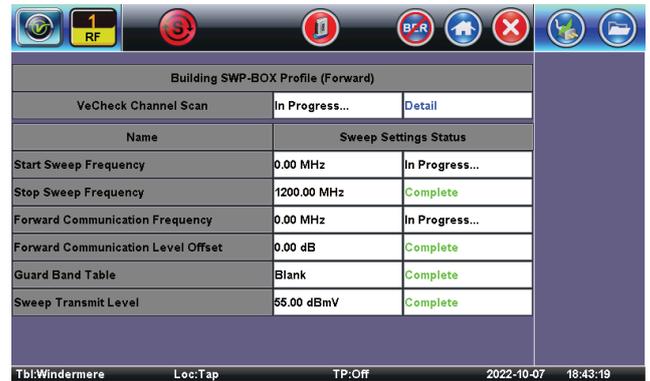
Scan, Build and Transfer Full Sweep Profiles

Fast and easy configuration of the RF System parameters using the CX380C.

Connect the CX380C to the Test Point connection on the starting Active device. Set the meter to Configure Sweep Profile, provide the Stop Sweep Frequency and Select "Build".

The CX380C will perform a Channel Scan of the RF Plant and configure all the settings for the Sweep Profile.

Save and Transfer the Forward Sweep profile from the CX380C to the SWP-BOX via an Ethernet connection. The SWP-BOX will start operating the Forward and/or Return Sweep.



Specifications

SWP-BOX Specifications	
Output Frequency Range	50 MHz to 1800 MHz
Output Level Range	0 dBmV to +55 dBmV
Input Frequency Range	5 MHz to 204 MHz
Input Level Range	-10 dBmV to +15 dBmV
Level Accuracy	±1.5 dB
Source Output Return Loss	>10 dB
Sweep Pulse Frequency Accuracy (5 MHz to 1800 MHz)	<10 kHz
Data Transmission	
Range	5 MHz to 1800 MHz
Data Carrier Modulation Bandwidth	<500 kHz

General Specifications

Size	2 in x 9 in x 6 in (W x H x D)
Weight	2.3 kg (5 lb)
Operating Temperature	-40°F to +149°F -40°C to +65°C
AC Adaptor	Input: 100-240 VAC, 50-60 Hz Output: 16 VDC, 5.5 A

Connect the configured SWP-BOX to the Test-Point of an Active device and start Sweeping. Sweep and verify all points of the RF Plant, all Active and Passive devices.

