

DSAM DOCSIS® 3.0 Spectrum Analyzer Applications

Pre-Amp and Minimum Hold Trace

A Pre-Amp and Minimum Hold trace have been added to the new DOCSIS 3.0 DSAM meter that allows users to find ingress quickly. The gain of this pre-amp is approximately 10 to 12 dB, as shown in Figures 1 and 2.

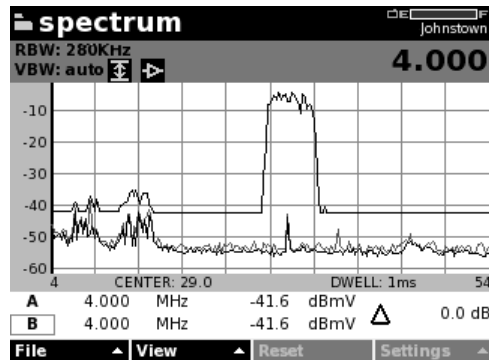


Figure 1. Spectrum with Pre-Amp

The gain of the Pre-Amp allows users to find ingress at a much lower level and works well on 20 dB test points.

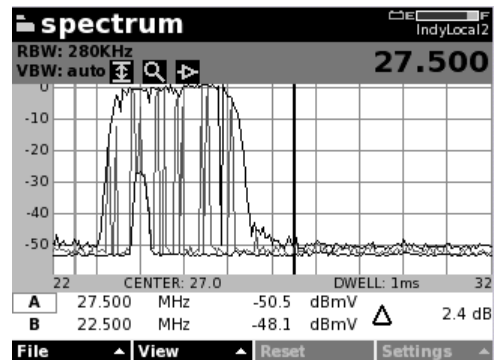


Figure 2. Spectrum with Minimum Hold Trace

The minimum hold trace allows users to see to see a constant carrier clearly under bursty modem carriers.

Low-Pass Filter and Dwell Time

Also, the new low-pass filter (LPF) and variable dwell time have been added to aid users in detecting ingress faster, as Figures 3 and 4 show.

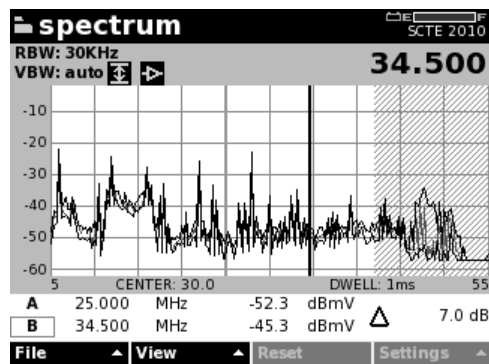


Figure 3. Spectrum with LPF Enabled

The LPF allows users to detect real common path distortions (CPD) on the actual plant.

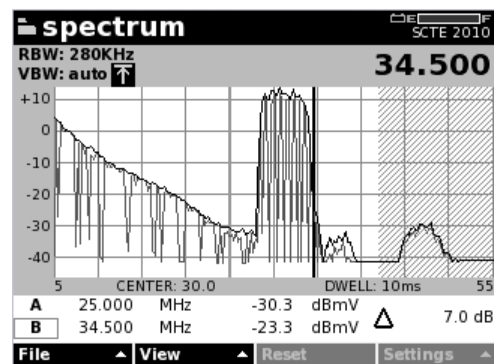


Figure 4. Spectrum with Long Dwell Time

Longer dwell times will detect impulse noise faster.

The Minimum Hold works in **Ingress Scan**, **Ingress Resistance**, and **Field View** modes as well.

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