DisplayMax[®]

Model 800 & 800CLI



Headend, Distribution & Installation Signal Level Meter

- Full Spectrum Display View the response of your entire system on one screen
- Leakage (800CLI) & Ingress Detection Insure that ingress will not interfere with digital services
- Data Recording Download or print saved files for a permanent record
- Auto-Calibration Eliminate the cost and downtime of annual calibration
- Additional Standard Features C/N, HUM, Audio, Auto-Check, Tilt & Fast Charge

Product Description

The DisplayMax 800CLI is powerful enough to maintain the headend, yet simple enough for routine installation checks. With a wide range of measurement options, a technician can quickly check an individual channel, favorite channels, all channels, tilt, leakage, ingress, C/N or HUM.

The graphic display allows a technician to view the full system response and quickly identify problems such as low level, roll-off, suck-outs or missing channels. In the ingress mode, the graphic display shows a spectrum analyzer view of the full return path, revealing any unwanted ingress signals.

All multi-channel modes are supported by an automatic pass/fail test that compares all measured channels against user defined parameters. In less than one minute a headend technician or installer can scan up to 135 channels and verify that all analog and digital channels are within tolerance.

Data recording permits all measurements to be saved and downloaded to a computer.

Leakage and Ingress Testing

Qualifying the drop and home wiring for VoIP and HSD services requires more than just checking signal level. Although proper signal level is important, verifying the shielding properties of the coax is equally important. Why is shielding important? Bad shielding allows unwanted signals (ingress) to enter the return path and slow down or abruptly stop digital services. Since more than 90% of ingress is generated at the drop and home wiring, it is necessary to check all installations for good shielding.

To test the entire home for ingress, disconnect the ground block and connect the meter to the home wiring. Performing an ingress scan will immediately show if ingress is present. A peak-hold mode will capture intermittent ingress if left running for a longer period of time.

Since shielding problems also allow forward channels to escape from the cable, using the 800CLI's leakage detector mode is very effective in finding the source of an ingress problem. To measure leakage, simply attach the supplied rubber duck antenna and press the leakage key.



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SAMPLE SCREENS

SINGLE DIGITAL CHANNEL



Quickly tune and display the average power of a single digital channel. The spectrum analyzer display shows how the power is distributed over the channel's bandwidth.

MEASURE LEAKAGE (800CLI)



Find leakage problems quickly using the search mode. Change to the measurement mode to accurately measure the leakage value based on your distance to the leakage source.

SINGLE ANALOG CHANNEL



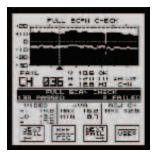
Quickly tune and display the picture carrier, audio carrier and dB difference on a single screen. Monitor audio quality on the built-in speaker.

MEASURE INGRESS



Check for ingress on the return-path. The spectrum analyzer display reveals the ingress signals that interfere with digital services such as VoIP and high-speed data.

FULL SCAN & CHECK



View the response of the entire system including both analog and digital channels. Press the 'check' key for an on-screen pass/ fail summary of the system.

FAVORITE CHANNELS



View only 'Favorite' channels for a quick snap-shot of the system. Press the 'check' key for an on-screen pass/fail summary.



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SPECIFICATIONS

SIGNAL LEVEL METER

FREQUENCY

Tuning Range: 5 to 872 MHz. Tuning Resolution: 125 KHz. IF Bandwidth: 280 KHz.

POWER RANGE

Analog Channels: -30 to +60 dBmV Digital Channels: -23 to +67 dBmV

ACCURACY

Typical: +/- 0.5 dB Max Additional Error at 70° F: +/- 0.5 dB Max Additional Error from 0° to 120° F: +/- 1.0 dB Digital Channel Error: additional +/- 0.5 dB

LEAKAGE DETECTOR (800CLI only)

FREQUENCY

Tuning Range: 108 to 140 MHz. Tuning Resolution: 25 KHz. IF Bandwidth: 280 KHz.

SENSITIVITY 2 uV/m (with duck antenna, 3ft. from leak)

ACCURACY

Typical: +/- 0.5 dB Max Additional Error at 70° F: +/- 0.5 dB Max Additional Error from 0° to 120° F: +/- 1.0 dB

FEATURES

- Audio warble identifies tagged channels
- Variable pitch aids peaking
- Video filter rejects false leaks

INGRESS DETECTOR

FREQUENCY

Tuning Range: 5 to 40 MHz. Tuning Resolution: 250 KHz. IF Bandwidth: 280 KHz.

POWER RANGE

-35 to +60 dBmV

ACCURACY

Typical: +/- 0.5 dB Max Additional Error at 70° F: +/- 0.5 dB Max Additional Error from 0° to 120° F: +/- 1.0 dB

CARRIER TO NOISE (C/N)

Range: 50 dB Minimum Carrier Level: +10 dBmV Accuracy: +/- 2 dB at 70° F; +/- 3 dB from 0° to 120° F Measurement made on active analog channels

HUM

Range: 0 to 5% Filter: 20 to 200 Hz. Measurement made on active analog channels

BATTERY

Type: 6 high-capacity sub-C NiCad cells Charge Time: 4 hrs. Run Time: 4 hrs. continuous Electronic Shut-Off: Saves power

GENERAL

Dimensions: 4.25" x 10" x 2.75" (11cm x 25.5cm x 7cm) Weight: 4.25 Lbs (1.9 Kg) including case & battery

STANDARD CHANNEL PLANS

NTSC (EIA), HRC, IRC, AIR (VHF/UHF) and PAL Custom plans available on request

MEASUREMENT MODES (14)

Single Analog Channel, Single Digital Channel, Single Frequency, 15 Channel Zoom, Sub-Band Channels, Full Scan (135 Channels), Favorite Channels (9 Channels), Tilt, Ingress, Leakage, C/N, HUM, 24Hr Scan and Auto-Check (available on multi-channel modes)

ACCESSORIES SUPPLIED

Padded Nylon Case: CASE05 110 Volt AC Charger: T70 12 Volt Car Charger: CH04 NiCad Battery Pack: BAT07 Operator's Manual: ST1008 Rubber Duck Antenna: ANT01 (800CLI)

OPTIONAL ACCESSORIES

Strand Hook: SH02 PC Download Cable: CA20 220/240 Volt AC Charger: T70E Dipole Antenna: ANT02 Mag. Mount Monopole Antenna: ANT03