

# DS2500C

## Triple Play Maintenance Analyzer

### Key Benefits

- DOCSIS 3.0 (8X4) channel bonding
- USB storage and firmware upgrade
- Communicate with PC via Ethernet
- High resolution 4 inch TFT LCD
- Upstream QAM Source w/Sweep mode
- MER & BER
- QAM, QPSK, COFDM
- Auto & Limit Tests
- Voltage measurement



The DS2500C QAM analyzer is designed for effective HFC network maintenance, troubleshooting, and maintenance applications. The compact unit QAM analyzer provides complete measurement capabilities of QAM and Analog TV Signal, Cable Modem, and Ethernet over Cable (EOC).

This versatile analyzer boasts a high-resolution color LCD display and an intuitive user interface allowing the technician to easily and quickly perform accurate network tests.

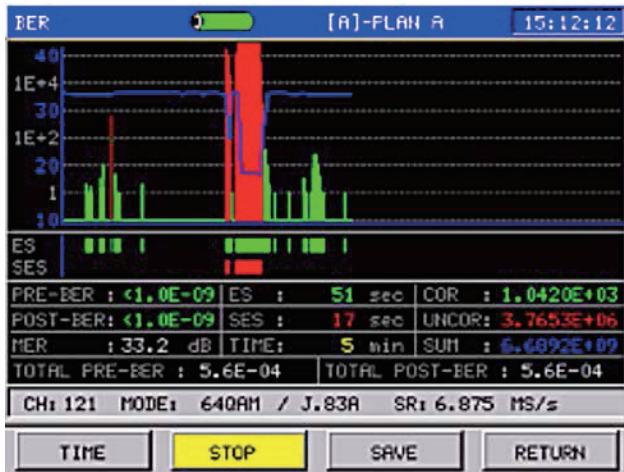
With the added DOCSIS 3.0 Cable Modem test feature, complete network testing is possible in the palm of your hand--including CMTS egistration, CM Statistics, Ping, FTP, and Web Browser.



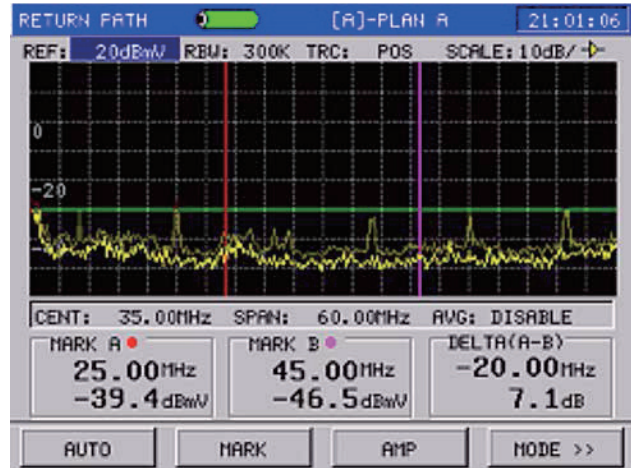
QAM Constellation



QAM Source Generator



BER Statistics



Return Path Spectrum

## Specifications

Frequency	
Frequency Range	5 MHz to 1000 MHz
Frequency Accuracy	$\pm 10 \text{ ppm} \times 10^6$
Frequency Resolution	10 kHz
QAM / DVB-C	
Power Level	-30dBmV to +50 dBmV
Level Resolution	0.1 dB
Level Accuracy	$\pm 1.5 \text{ dB (C/N > 20 dB)}$
MER	$\sim 40 \text{ dB}$
MER Accuracy	$\pm 2 \text{ dB}$
BER	$1E-3 \sim 1E-9 \text{ (Pre/Post RS)}$
BER Statistics	Yes
Modulation Type	16/32/64/128/256 QAM ITU-T J.83 ANNEX A/B/C
Constellation	Yes
Analog CATV	
Level	-30dBmV to +60 dBmV
Level Resolution	0.1 dB
Level Accuracy	$\pm 1.5 \text{ dB}$
Other Functions	C/N, V/A, Tilt, Limit Test, Auto Test, Channel Sweep/Management, Line Voltage
Spectrum Analysis	
Input Level Range	-50 dBmV to +60dBmV
Level Resolution	0.1 dB
Level Accuracy	$\pm 1.5 \text{ dB}$
Display Dynamic Range	80 dB
RBW	30 kHz / 100 kHz / 300 kHz / 1 MHz / 3 MHz (Self-Adapt)
Sweep Time	300 mSec/ Field (8MHz)
Span	995 Mhz (Maximum)
Return Path Noise Test	Yes
QAM Source	
Frequency	5 to 65 MHz
MER	$> 38 \text{ dB}$
Modulation Type	8/16/32/64 QAM, QPSK, CW
Symbol Rate	5.12/2.56/1.28 MSym/s, 640/320/160 KSym/s
Output Level Range	+8 dBmV to +60 dBmV
General	
Dimensions	247mm (9.7") x 130mm (5.1") x 67mm (2.7")
Weight	1160 g (2.6 Lbs.)
Battery	14.8 V / 2.1 AH Rechargeable Lithium-Ion
Charge Time	4 to 5 hours
Operating Time	6 Hours