



From “The Best” to “Even Better”- Site Master S331D, S332D & Spectrum Master MS2711D performance compared to their predecessors

The following table shows the improved performance and resulting benefits the new Site Master S331D, S332D and Spectrum Master MS2711D deliver over their predecessors – all at no increase in price! Use this information to show current customers the benefits of buying or trading up to the newer models.

Site Master - S331D & S332D Models

Features/Functionality	S331B/ S332B	S331C/ S332C	S331D/ S332D	Benefit
Local language support		Six languages	Six languages	Requires less training and easier for local technicians to understand
Segmented limit lines		•	•	Ability to create different limit lines for quick pass/fail measurements
Battery charging circuit for simultaneous run/charge		•	•	Eliminates additional time for charging
Trace upload function (PC to Master Product)		•	•	To customize measurement parameters like, cables, antennas
Trace Overlay on screen		•	•	Ability to compare two traces on screen
Markers	4	6	6	More marker menus to analyze traces and display quick results
Sweep rate per datapoint	40 msec	RL-13 msec DTF-31 msec	≤ 3.5 msec	Saves technician time and enables easier identification of intermittent problems in real-time
Instacal		•	•	Ensures accurate calibration
FlexCal – Broadband calibration 25MHz to 4 GHz			•	Allows troubleshooting cable and antenna systems without multiple calibrations and calibration setups
Calculated average cable loss			•	No more guess work or need to manually calculate avg. cable loss
Built-in worldwide signal standards			•	Eliminates the need to remember system frequencies and manually input the start and stop frequency values
T1/E1 Analyzer (Option 50 for S331D Models only)			•	Eliminates the need to carry additional T1/E1 tester
Color LCD Display (Option 3)			•	Crisp display in indoor lighting
Power Meter (Option 29)	Had Power monitor option which requires additional detector	Had Power monitor option which requires additional detector	•	No additional parts to carry. Great flexibility in measuring power in a given bandwidth while ignoring out-of-band power.
Adjustable backlight			•	Easy to view measurements under all lighting and weather conditions

Spectrum Analyzer (S332D Models Only)

Features/Functionality	S332B	S332C	S332D	Benefit
DANL	≤-90 dBm,	≤-97 dBm, >300KHz ≤-80 dBm, 100KHz to 300KHz	≤-135 dBm, >10MHz (preamp on) ≤-115 dBm, <10MHz	Ability to measure low level signals
Built-in world signal standards and frequency channels			•	Eliminates the need to perform channel-to-frequency translation
Sweep time	5 sec	≥6500 msec full span 510 msec zero span	≤1.1 sec full span ≤50 μsec to 20 sec zero span	Saves technician time and enables easier identification of intermittent problems in real-time
One-button measurements: Field Strength, Occupied Bandwidth, Channel Power, Adjacent Channel Power Ratio		•	Two new one button measurements- Interference Analysis and carrier-to-interference ratio	Quicker, convenient measurements. In "S332D" models two new measurements interference analysis and C/I are introduced to understand interference problems and ensure the ratio received signal quality in the presence of interference
Maximum peak Input power	+27 dBm	+27 dBm	+43 dBm	Can survive in even the toughest RF environments
Total Level Accuracy	±2dB, ≥ 200KHz ±3dB, < 200KHz typical	±2dB, ≥ 300KHz ±3dB, < 300KHz typical	±1dB max(± 0.5 dB typical), ≥ 10MHz to 2GHz, ±1.5dB max (±1dB typical), >2GHz to 3GHz, ±3dB typical, <500KHz for input signal levels ≥-60dBm, excludes input VSWR mismatch	Accurate measurements
Resolution Bandwidth	10KHz, 30KHz, 100KHz, 1MHz	10KHz, 30KHz, 100KHz, 1MHz	100Hz to 1 MHz in 1-3 sequence	Narrow resolution bandwidth ensures greater ability to see low level signals
Resolution bandwidth Accuracy		±20 % typical	±5 %	Better accuracy
Video Bandwidth	3KHz, 10KHz, 30KHz and 300KHz	100 Hz to 300 KHz in 1-3 sequence	3Hz to 1MHz in 1-3 sequence	Narrow video bandwidth yields smoother trace
Video Bandwidth Accuracy		±20 % typical	±5 %	Better accuracy

Spectrum Master – MS2711D

Features	MS2711B	MS2711D	Benefits
Built-in worldwide signal standards and frequency channels		•	Eliminates the need to perform channel-to-frequency translation
DANL	≤-115 dBm, ≥1MHz ≤-95 dBm, ≥500 KHz ≤-80 dBm, <500 KHz	≤-135 dBm, ≥10MHz ≤-115 dBm, <10MHz	To measure low level signals
One-button measurements: Field Strength, OBW, Channel power, ACPR	•	Two new one button measurements - Interference Analysis and carrier-to-interference ratio	Quicker, convenient measurements. In “MS2711D” models two new measurements interference analysis and C/I are introduced to understand interference problems and ensure the ratio received signal quality in the presence of interference
Sweep time	≥6500 msec full span 510 msec zero span	≤1.1 sec full span ≤50 μsec to 20 sec zero span	Saves technician time and enables easier identification of intermittent problems in real-time
Maximum peak Input power	+27 dBm	+43 dBm	Can survive in even the toughest RF environments
Total Level Accuracy	±2dB, ≥ 500KHz ±3dB, < 500KHz typical	±1dB max(± 0.5 dB typical), ≥ 10MHz to 2GHz, ±1.5dB max (±1dB typical), >2GHz to 3GHz, ±3dB typical, <500KHz for input signal levels ≥-60dBm, excludes input VSWR mismatch	Accurate measurements
Resolution Bandwidth	10KHz to 1 MHz in 1-3 sequence	100Hz to 1 MHz in 1-3 sequence	Narrow resolution bandwidth gives greater ability to see low level signals
Resolution bandwidth Accuracy	±20 % typical	±5 %	Better accuracy
Video Bandwidth	100 Hz to 300 KHz in 1-3 sequence	3Hz to 1MHz in 1-3 sequence	Narrow video bandwidth yields smoother trace
Video Bandwidth Accuracy	±20 % typical	±5 %	Better accuracy
Color LCD Display (Option 3)		•	For crisp display in indoor lighting
Adjustable backlight		•	Easy to view measurements under all lighting and weather conditions
Power Meter (Option 29)	Had Power monitor option which requires additional detector	•	No additional parts to carry. Great flexibility in measuring power in a given bandwidth while ignoring out-of-band power.
Tracking Generator (Option 20)	•		To measure gain or loss of two port devices such as filters, cables, attenuators and amplifiers
Transmission Measurement (Option 21)		•	To measure gain or loss of two port devices such as filters, cables, attenuators and amplifiers
Bias Tee (Option 10)	•	•	Able to power up frequency block converters for aligning VSAT antennas and wireless TMA's for gain measurement