

R&S® Cable Rider ZPH two-port model versus Keysight FieldFox N9913A



The R&S® Cable Rider ZPH offers distinctly faster and more efficient ways to make measurements than the Keysight FieldFox N9913A

The R&S® Cable Rider ZPH has the longest battery operation time and allows a full day's operation with a single charge. FieldFox needs an additional spare battery, which adds weight climbing up the mast. Understanding the need to complete measurement in the shortest possible time, the R&S® Cable Rider ZPH features incredibly short boot and warm-up times and extremely fast measurement speed. This helps reduce measurement time on site.

The R&S® Cable Rider ZPH capacitive touchscreen makes it a lot easier and faster to access menus and change settings. All essential settings can be configured in one go in the configuration overview menu. FieldFox requires the user to click more buttons/icons for the same set of settings.

Customer benefit	Supporting feature or specification
Less to carry for field measurement tasks	battery can operate up to 9 hours on a single charge
Reduces measurement time on site	fast boot time, warm-up time and extremely fast measurement speed with 0.3 ms/data point
New user experience	capacitive touchscreen (supports smartphone-like gestures)

Parameter	R&S® Cable Rider ZPH two-port combi model .12	Keysight N9913A
Frequency range, VNA	2 MHz to 3/4 GHz	30 kHz to 4 GHz
Frequency range, SA	5 kHz to 3/4 GHz	100 kHz to 4 GHz
DANL (spectrum analyzer at 1 GHz, normalized to 1 Hz, preamp = on)	-163 dBm (typ.)	-155 dBm (typ.)
Tracking generator	yes, CW and independent source	yes, CW and independent source
Internal bias tee	yes, standard	yes, option
Data points	101 to 2,501	101, 201, 401, 601, 801, 1001, 1601, 4001, 10001
Warm-up time	< 1 min	0 to 90 min (measurement dep.)
Meas. speed	0.3 ms/data point	≤ 0.43 ms/data point
Test port damage level	+30 dBm, ±50 V DC	+27 dBm, ± 50 V DC
Directivity (corrected)	f ≤ 3 GHz > 43 dB (nom.)	≥ 35 dB (nom.)
Immunity to interference	+17 dBm (nom.)	+ 16 dBm (nom.)
Display	7" touchscreen (capacitive)	6.5" non-touch
Backlight keyboard	yes	no
Battery operation time	≤ 9 h	3.5 h
Weight	2.5 kg	3.7 kg
Remote control	via USB, Ethernet	via Ethernet (option)
Power meter	option	option
Automatic calibration unit	yes (with R&S® ZN-Z103 option)	yes, with Ecal units
Wizard support	yes, using free software – R&S® InstrumentView	no
Price	EUR 8,900 (4 GHz)	USD 11,164

► For more information,
see www.rohde-schwarz.com/product/zph

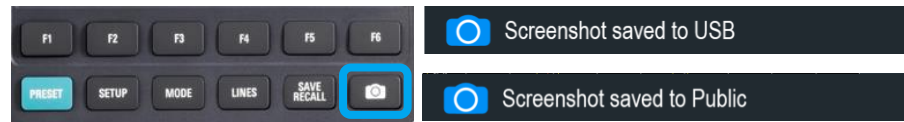
Fast measurement speed, boot and warm-up times with long lasting battery

Measurement efficiency comparison

	R&S®Cable Rider ZPH two-port combi model .12	Keysight N9913A
Measurement speed	0.3 ms/pt	0.433 ms/pt
Boot up time	< 15 s	approx. 100 s
Warm up time	1 min	30 min
Battery operation	up to 9 h	3.5 h

Fast and efficient way to save screenshot

R&S®Cable Rider ZPH: one touch to save



N9913A: requires 5 steps



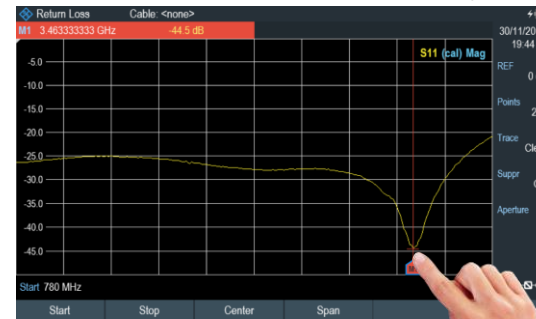
1. Press the **SAVE/RECALL** key
2. Select the *File Type* screen menu
Picture (PNG)
3. Select the *Save* menu
4. Assign the *File Name*
5. Press the *Done* key

Competitive summary

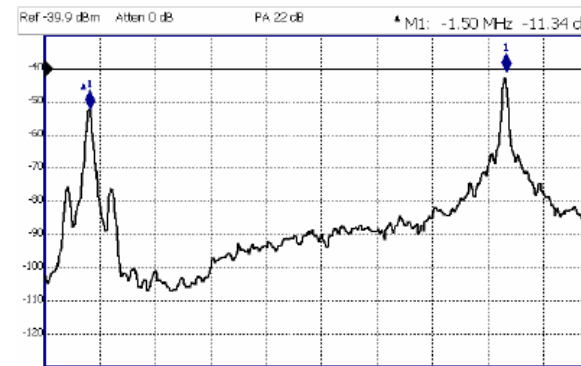
- Fast and easy to change settings
- Fast and efficient way to save screenshots
- Fast measurement speed, boot and warm-up times with long lasting battery

Fast and simple ways to operate

R&S®Cable Rider ZPH: add markers with just 1 step



N9913A: adding markers requires more clicks



How to create Markers

- Press **Marker**.
- Then **Markers 1...6** to select a marker to activate.
- Then **Normal** to activate that marker. A marker is created on the trace in the middle of the X-axis. That marker is now **active**.
- Then move the marker using the rotary knob, the **▲▼** arrows, or by entering an X-axis position with the number keys.
- Then press **Enter**.