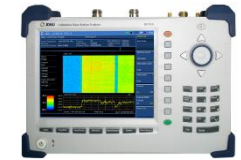


R&S® Cable Rider ZPH two-port model versus Viavi (JDSU) Cell Advisor



The R&S® Cable Rider ZPH offers distinctly faster and more efficient ways to make measurements than the Viavi Cell Advisor JD745B.

Fastest measurement speed, shortest warm-up time and highest amount of data points in the handheld market – that’s what you get with the R&S® Cable Rider ZPH. Equipped with the automatic calibration option (R&S®ZN-Z103), the R&S® Cable Rider ZPH can finish calibration in <10 s, surpassing the Cell Advisor in terms of efficiency and helping 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. For example, double tapping on a point of interest instantly brings up a marker. All essential settings can be configured in one go in the configuration overview menu. The Cell Advisor requires the user to click more buttons/icons for the same set of settings.

Customer benefit	Supporting feature or specification
Reduces measurement time on site	fast boot time, warm-up time and extremely fast measurement speed with 0.3 ms/data point
Can record 999 hours	spectrogram recording with the R&S®ZPH-K15 option offers the longest recording duration of up to 999 hours (depend on recording interval setting)
New user experience	capacitive touchscreen (supports smartphone-like gestures)

Parameter	R&S® Cable Rider ZPH two-port combi model .12	Viavi JD745B
Frequency range, VNA	2 MHz to 3 GHz/4 GHz	5 MHz to 4 GHz
Frequency range, SA	5 kHz to 3 GHz/4 GHz	100 kHz to 4 GHz
DANL (spectrum analyzer @ 1 GHz, normalized to 1 Hz, preamp = on)	-163 dBm (typ.)	-158 dBm (typ.)
Tracking generator	yes, CW & independent source	yes, CW generator (option)
Internal bias tee	yes	yes
Data points	101 to 2,501	126, 251, 501, 1001
Warm-up time	<1 min	15 min
Meas. speed	0.3 ms/data point	≤ 1.65 ms/data point
Test port damage level	+30 dBm, ±50 V DC	+20 dBm, ±45 V DC
Directivity (corrected)	f ≤ 3 GHz, >43 dB (nom.)	≥ 40 dB, OSL calibration
Immunity to interference	+17 dBm (nom.)	+17 dBm (nom.)
Display	7" touchscreen (capacitive)	8" touchscreen (resistive)
Backlight keyboard	yes	yes
Battery operation time	≤ 9 h	> 3 h
Weight	2.5 kg	4.34 kg
Remote control	via USB, Ethernet	via USB, Ethernet, Bluetooth
Power meter	yes, option	yes, standard
Automatic calibration unit	yes (with R&S®ZN-Z103 option)	yes (with EZ-Cal kit)
Wizard support	yes, using free software – R&S®InstrumentView	yes, using Test Wizard Creator
Price	EUR 8,900 (4 GHz)	USD 14,250

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

Lightweight



Every additional gram adds to user fatigue in the field. Thanks to the state-of-the-art design, R&S®Cable Rider ZPH weighs only 2.5 kg – regardless of the options installed

Fast measurement speed, boot time and warm-up time

Measurement speed comparison

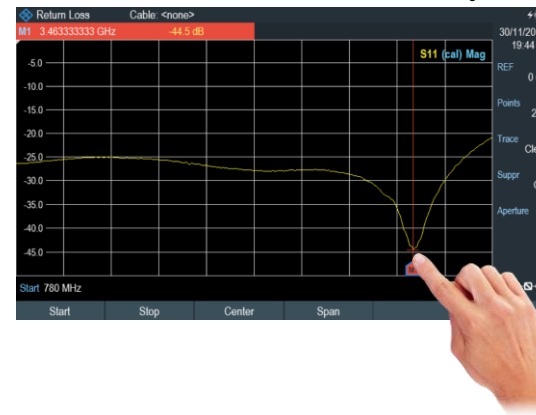
No. of data pts	R&S®Cable Rider ZPH (0.3 ms/pt.)	Viavi (JDSU) Cell Advisor JD745B (0.7 ms/pt.)
101	0.0303 s	0.0707 s
1001	0.3003 s	0.7007 s
2001	0.6003 s	1.4007 s

Boot and warm-up time comparison

	R&S®Cable Rider ZPH	Viavi (JDSU) Cell Advisor JD745B
Boot time	< 15 s	approx. 40 s
Warm-up time	1 min	5 min

Fast and simple ways to operate

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



JD723C/JD724C: adding markers requires more clicks



Competitive summary

- Lightweight
- Fast measurement speed, boot time and warm-up time
- Fast and simple way to change settings

Additional notes:

- For capacitive touchscreen, no realigning of screen necessary
- For resistive touchscreen, touch alignment is required