

Rosenberger

Broadband. Precise. Future-proof.

PIM Site Analyzer α

COMMUNICATION





Wide Range of Tools & Accessories

PIM Site Analyzer α

About Rosenberger

Company Profile

Rosenberger is one of the world's leading manufacturers of impedance controlled and optical connectivity solutions. It provides connectivity solutions in high-frequency, high-voltage, and fiber-optic technology for mobile communication networks, data centers, test & measurement applications, automotive electronics, as well as high-voltage contact systems, medical electronics or aerospace engineering.

Passive Intermodulation (PIM) Test Solutions for All Applications. Made in Germany.

Mobile communication networks around the world are subject to ever-increasing requirements. The demand for high data rates, short response times, and maximum availability, combined with the increasing complexity of the networks, presents considerable challenges in terms of the efficiency of the infrastructure.

Passive intermodulation (PIM) is one of the main causes of faults in modern networks. PIM – which is caused by factors such as inadequate installation or component quality, or by site-specific external influences – can significantly reduce the network quality (for example, with regard to range or data transmission) and is therefore a serious problem for network operators.



Fast and Easy Interchangeable Band Filter Units

Stressed PIM Tests without any Calibration on Site

PIM Site Analyzer α

The Rosenberger portable and multifunctional broadband PIM Site Analyzer α provides the best alternative of performing the most precise and efficient PIM tests on site.

The PIM Site Analyzer α consists of a single Master Unit with band-specific, interchangeable filter units, since the form factor of the filter units is the same. Take out one filter unit, e.g., 900 MHz, and replace with another filter unit, e.g., 1800 MHz, without any calibration of the filter unit, potential adaptors, test cable, or operational mode(s). Future-proof Plug and Play concept covering 700 to 2700 MHz.

Benefits

- Broadband Base Unit 700 - 2700 MHz with field interchangeable, band-specific filter units
- Stressed PIM tests – continuous wave (CW) signal simulates real operating conditions of the base station (in conformity with IEC 62037-1)
- Outstanding PIM performance < -125 dBm (< -130 dBm typ.)
- No on-site calibration

- Accuracy of < 0.3 m for PIM Distance to Fault (DTF) measurement
- Future-proof for upcoming bands
- Hardware ready for later CPRI SW upgrade

Additional Features

- In-built WiFi for remote control via optional 10" Android tablet
- Operation via batteries or external power supply
- VSWR/return loss measurements
- Antenna isolation measurement
- Integrated spectrum analyzer
- 12" touchscreen
- Intuitive software operation

General Specification PIM Site Analyzer α

IM Order	3rd, 5th, 7th, 9th, 11th, 13th, 15th, 17th
Output Power	26 – 49 dBm equals 23 – 46 dBm at testport
Residual PIM	< -125 dBm (> 168 dBc @ $2x +43$ dBm)
PIM vs. Distance	
• Accuracy/Resolution	• < 0.3 m depends on number of PIM sources and accuracy of cable velocity factor
• Range	• Down to -120 dBm PIM, 0 – 150 m
Frequency Range (seamless)	700 ... 2700 MHz
Filter Units*	Interchangeable to frequency band(s) 700, 800, 900, 1800, 1900, 2100, 2600 MHz

* Other frequency bands on request



For more information
refer to our microsite:
www.rosenberger.com/pia

Rosenberger

Rosenberger Hochfrequenztechnik GmbH & Co. KG
Hauptstraße 1 | 83413 Fridolfing
P.O. Box 1260 | 83526 Tittmoning
Germany
Phone + 49 8684 18-0
info@rosenberger.com
www.rosenberger.com
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ISO 9001 · ISO 14001

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Rosenberger

Rosenberger Site Solutions GmbH
Mayerhofen 45A | 83410 Laufen
Germany
Phone +49 8684 18-5000
Fax +49 8684 18-1499
siso@rosenberger.com
www.rosenberger.com/siso

Rosenberger

Rosenberger Site Solutions, LLC
P.O. Box 4268 | Lake Charles, LA 70606
USA
Phone +1 337 598-5250
Fax +1 337 598-5290
website@rosenbergeronline.us
www.rosenbergeronline.us

Rosenberger

Rosenberger Asia Pacific Electronic Co., Ltd.
No.3, Anxiang Street, Block B, Tianzhu Airport
Industrial Zone
Beijing, China 101300
Phone +86 10 804 81 995
Fax +86 10 804 97 052
sales@rosenbergerap.com
www.rosenbergerap.com