

Exceptionally Modular, Precise, and Efficient

## PIM Rack Analyzer

COMMUNICATION





## 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, and 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 networks, presents considerable challenges in terms of the efficiency of infrastructures.

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.



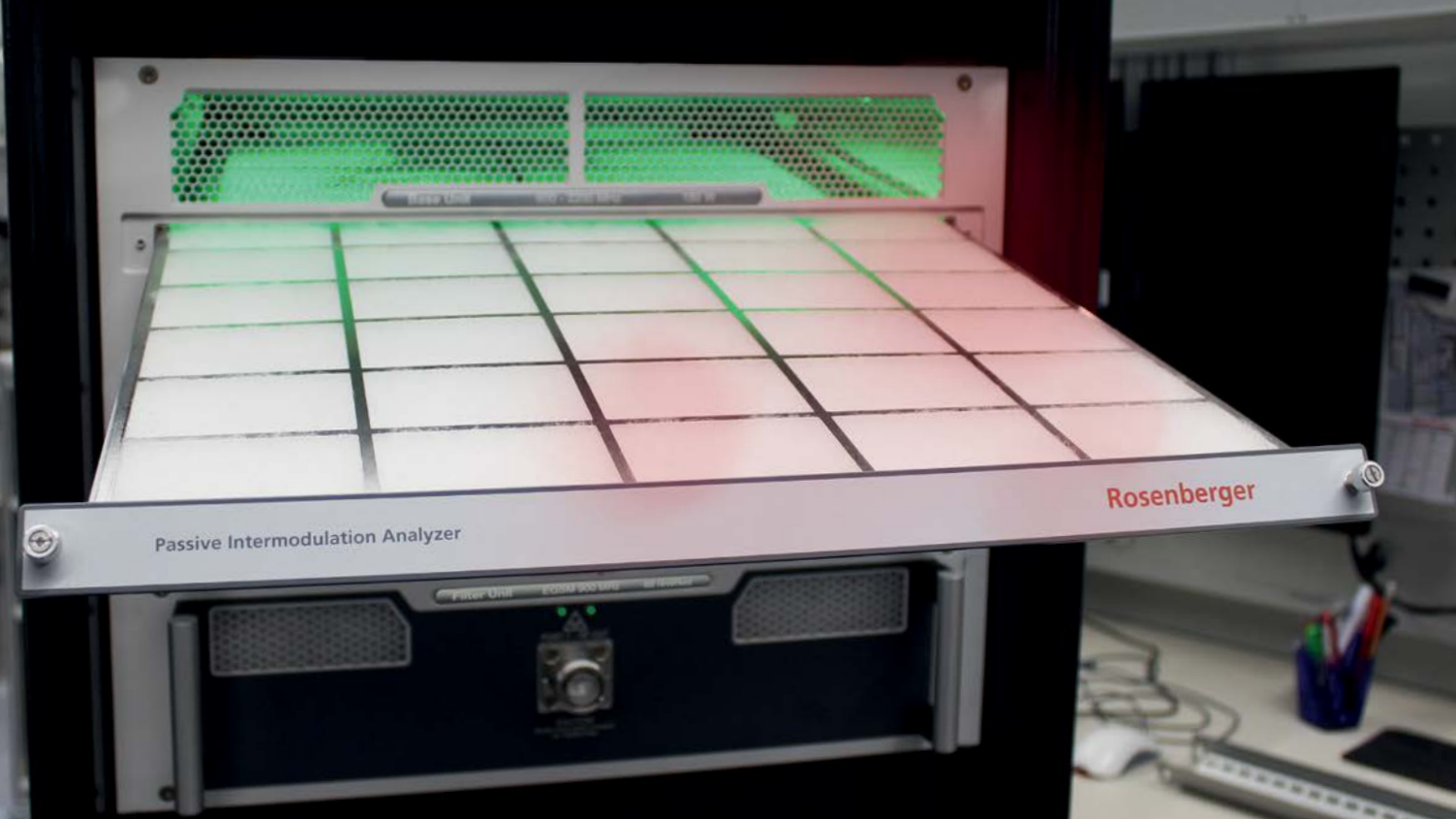
## PIM Rack Analyzer – Exceptionally Modular

### PIM Rack Analyzer

Rosenberger Rack Analyzers are designed to make PIM tests in production or test lab environments exceptionally modular, precise, and efficient. The budget-friendly broadband base unit concept offers maximum flexibility thanks to the option of connecting up to 11 filter units to one base unit. Integrated DTF measurement enables faster fault-finding by accurately pointing out the source of PIM.

With the plug-and-play filter concept, intuitive software operation, and easy-to-replace dust filters, it is possible to create a significant reduction in production downtime caused by changes in test frequencies or maintenance and servicing work.





## Overview

### Benefits

- Broadband base units 700 to 2200 MHz and 2100 to 2700 MHz
- Connect up to 6/11 filters to one base unit via optional easy-to-install switch matrix
- Time-efficient, automatic band switching when measurement band is changed (thanks to the optional switch matrix)
- Designed for 24/7 production use

### Additional Features

- Intuitive, user friendly software operation
- Easy-to-replace dust filters to reduce downtime caused by maintenance work
- No production downtime when setup is rearranged (plug-and-play filter inserts)
- 9" touchscreen, Win7 OS
- Temperature controlled fan for quiet operation
- Optional safety port to remote disable amplifiers from test chamber contact



## PIM Rack Analyzer – Specifications

<b>IM order</b>	3rd, 5th, 7th, 9th, 11th, 13th, 15th, 17th
<b>Output power (at test port of 3 dB coupled filters)</b>	26 to 52 dBm (23 to 46 dBm)
<b>Residual PIM</b>	<-128 dBm (>171 dBc @ 2x +43 dBm) <-131 dBm (>174 dBc @ 2x +43 dBm) typ
<b>PIM vs. distance accuracy</b>	< 0.3 m, all bands Depends on number of PIM sources and accuracy of cable velocity factor
<b>Range</b>	Down to -120 dBm PIM, 0 to 150 m
<b>Frequency range</b>	
<b>Base unit (IM-R-BU-0722)</b>	698 to 2200 MHz (seamless)
<b>Base unit (IM-R-BU-2127)</b>	2100 to 2700 MHz (seamless)
<b>Filter units</b>	700APT, 700LU, 800, 850, 900, 1400, 1800, 1900, 1900PCS/AWS, 2100, 2350WCS, 2600 MHz



## Website

For more information refer to our website:  
[www.rosenberger.com/pia](http://www.rosenberger.com/pia)

## **Rosenberger**

Rosenberger Hochfrequenztechnik GmbH & Co. KG

Hauptstraße 1 | 83413 Fridolfing

P.O. Box 1260 | 84526 Tittmoning

Germany

Phone +49 8684 18-0

[info@rosenberger.com](mailto:info@rosenberger.com)

[www.rosenberger.com](http://www.rosenberger.com)

Certified by IATF 16949 · DIN EN 9100 · ISO 9001 · ISO 14001

Order No.

pA 270439 · Info583PIArackFly

2500/2018

Rosenberger® is a registered trademark of Rosenberger Hochfrequenztechnik GmbH & Co. KG.  
All rights reserved.

© Rosenberger 2018