



ROHDE & SCHWARZ

Division
Radiomonitoring and Radiolocation

Release Notes

Version 2.30

R&S[®] GX430

**PC-based signal analysis & signal
processing**

4071.5500.02

Copyright

This document and any parts thereof are protected by copyright. Any use without the approval of Rohde & Schwarz is prohibited. This especially applies to reproductions, translations, generation of microfilms as well as storage and processing in electronic systems.

Copyright Ó 2008. All rights reserved by Rohde & Schwarz.

Dear Customer,

the term R&S[®] AMMOS[®] is abbreviated frequently as 'AMMOS'.

Trademarks

R&S[®] and AMMOS[®] are a registered trademark of Rohde & Schwarz GmbH & Co. KG and its subsidiaries.

Contents

1 General Information	4
2 Software Update.....	5
3 New Features, Improvements and Changes.....	6
3.1 Version History	6
3.1.1 Version 02.30_00.11	6
3.1.2 Version 02.20_00.11	6
3.1.3 Version 02.10_00.09	6
3.1.4 Version 02.00_03.06	7
3.1.5 Version 01.60_03.06	8
3.1.6 Version 01.50_02.01	8
4 Restrictions - Known Problems - Workarounds	10
4.1 Restrictions	10
4.1.1 Windows XP user rights.....	10
4.1.2 GX430DM	10
4.1.3 GX430DM-E	10
4.1.4 GX430SC	10
4.2 Known Problems	10

1 General Information

Manual for GX430

The following manual is supplied with GX430: **Manual GX430**

The Version 2.30 corresponds with the manual 4071.5546.32-06.00

2 Software Update

Please refer to the GX430 Manual on how to install the Software. Before installing GX430 Version 2.30 you will have to uninstall previous versions. Uninstalling will not remove your data. The new installer will provide and copy all files required for the upgrade.

3 New Features, Improvements and Changes

3.1 Version History

3.1.1 Version 02.30_00.11

New Features:

- Panorama scan spectrum in AS&C mode is shown during scan

Improvements:

- Clover2000: Shortened RS-Codes are supported
- Improved Pactor III decoder

Fixed Problems:

- Improved performance on Pactor III with low SNR

3.1.2 Version 02.20_00.11

New Features:

- Option GX430DC-E: Pactor II is supported
- R&S[®] RAMON[®] Master/Slave is supported
- R&S[®] RAMON[®] Report Edit is supported
- Heuristic Decision Mode in AS&C is supported

Improvements:

- Majority Decision Mode in AS&C optimized
- CLOVER and PACTOR visualizations optimized
- Added several keyboard shortcuts

Fixed Problems:

- Clover 2 and Cover 2000 supports more samplerates
- SELCAL_5T, DTMF, FMS_BOS, MPT1327 supports more samplerates
- GX430MA: V/UHF INDIRECT Recognition (primary FM, AM and related Systems) works for high samplerates
- Text in transmission result window is always up to date

3.1.3 Version 02.10_00.09

New Features:

- Option GX430DC-E: Clover2 is supported
- Option GX430DC-E: Clover2000 is supported

- Option GX430DC-E: Pactor III is supported
- DRM can be decoded

Improvements:

- Working segment of analog demodulator can be displayed in the spectrum visualization
- Working segment of digital demodulator can be displayed in the spectrum visualisation
- Working segment of classifier can be displayed in the spectrum visualisation
- Working segment of manual modulation analysis can be displayed in the spectrum visualisation
- Added several keyboard shortcuts
- Enhanced GX430SC workflow
- Local Workstation IP-address for connection to tuner is determined automatically

Fixed Problems:

- improved AM recognition
- improved FM recognition
- improved MORSE recognition
- GX430MM bandwidth selection is working

3.1.4 Version 02.00_03.06**New Features:**

- Option GX430SC is supported
- Option GX430MM is supported
- Analogue IF/NF via soundcard is supported
- Display of demodulation quality, EVM diagram
- IF-Recording with signal backlog is possible
- New language available: Chinese
- Audio can be send to R&S® AllAudio

Improvements:

- The following systems are recognized
 - Mil-Std. 188-110B
 - Mil-Std. 188-141A (ALE)
- For PSK demodulators an equalizer can be selected
- Time measurement in waterfall display is possible
- Level and frequency measurement in spectrum improved
- Improved frequency input
- Spectral resolution is displayed

Fixed Problems:

- HF-FAX (FM&AM), PRESSFAX, SSTV work for sample rates larger than 8kHz
- Morse works for sample rates larger than 4kHz

3.1.5 Version 01.60_03.06**New Features:**

- Adjustable speed of the waterfall display
- Measurements for bandwidth and level is possible in the spectrum/waterfall display
- New receivers supported: R&S EB200, ESMB
- Support for R&S receivers PR100 and ESMD is experimental
- Replay of WAV-files is possible

Improvements:

- The following modulation types are recognized
 - AM-FSK
 - FM-FSK
- The following systems are recognized
 - CODAN
 - Stanag 4529
 - ACARS

Fixed Problems:

- POCSAG decoder: automatic detection of baudrate and sideband
- Correct detection results on wav files
- Unicode decoded text and selected codec doesn't work
- Sometimes decoded text subchannels are missing
- Starting GX430 with double-click on jobfile is not possible
- Classification doesn't work with bandwidth higher than 500kHz
- Endless replay sometimes doesn't work

3.1.6 Version 01.50_02.01**New Features:**

- First release of product

Improvements:

- First release of product.

Changes:

- First release of product

Fixed Problems:

- First release of product

4 Restrictions - Known Problems - Workarounds

4.1 Restrictions

4.1.1 Windows XP user rights

Administrative rights are required to install the GX430 application.

4.1.2 GX430DM

OQPSK can not be demodulated.

Multichannel FSK/PSK demodulators are optimized for 32kHz samplerate

4.1.3 GX430DM-E

The following features are not supported:

- Display of equalizer coefficients

4.1.4 GX430SC

Do not use any other tuner control application when the automatic search & classify application is active.

4.2 Known Problems

- WEFAX only supports 320kHz samplerate
- Automatic baudrate detection for POCSAG is not available
- FMS_BOS does not detect lower sideband transmissions
- PacketRadio results: ended communications is not "blue" colour coded as described in tool tip

Should you have any questions or suggestions, please use the hotline:

Customer Support Europe

Telephone: +49-180-5124242

FAX : +49-89-4129-63778

E-mail: CustomerSupport@rohde-schwarz.com

Customer Support America

Telephone: 1-888-TESTRSA(1-888-837-8772)

From outside the USA: +1-410-910-7988

Email: customer.support@rohde-schwarz.com

Customer Support Asia

Telephone: +65-6846-3716

Fax: +65-6846-0029

Email: customersupport.asia@rohde-schwarz.com