COMPANY PROFILE

Doewe Technologies, headquartered in Beijing, has been operating for a decade and currently has branches including the Beijing R&D Center, Chengdu R&D Center, Doewe Shanghai, Doewe Shenzhen, and Doewe Hong Kong. The company is fully committed to building its independent brand "Doewe," with its business covering two main categories: Advanced Sensing Measurement and Control (ASMC) and Professional Test and Measurement Solutions (PTMS).

The ASMC product line provides innovative high-precision sensing acquisition and data analytics solutions. PTMS focuses on industry-specific test and measurement solutions for audio, video, and RF applications. It has established the 5XC product system, serving sectors such as transportation, broadcasting, automotive electronics, consumer electronics, and university research institutes.

Through relentless effort, several of the company's products have become benchmark test instruments in their respective industries. Doewe Technologies also holds multiple core patents and software copyrights, participates in relevant industry standards working groups, and contributes to the formulation of national and industry standards. Building on past achievements, Doewe continues to increase its R&D investment. We have never forgotten our original aspiration, firmly believing that only profound technological accumulation creates value. We persistently pursue innovation in test and measurement technology, dedicated to technology development, application software services, and research in test and measurement solutions.

Leveraging its Beijing headquarters, related technical centers, and subsidiaries, Doewe Technologies has gradually established a nationwide pre-sales and after-sales service network, providing customers with professional technical consultation. Guided by the principles of "Rigorous, Efficient, Professional, Innovative," Doewe Technologies will continue steadfastly on this path, living up to the trust of every customer.

The journey ahead is long and challenging. We will accompany you on this path of growth to create a new future of technology together.

Overview and Product Features

overview

The handheld TV signal analyzer VAROS 106+ is designed to meet the system installation and maintenance needs of cable, satellite, and terrestrial digital TV operators or integrators. It stands out with features such as a large TFT display, backlit keys, real-time color decoding, and user-friendly operation.

The VAROS 106+ is equipped with an optical input interface test and EMI analysis. It can test optical power and OMI (Optical Modulation Index) of optical ports, and directly convert signals to RF for subsequent parameter analysis, all of which simplify the work of engineers.

The VAROS 106+ fully supports RF input testing for China's terrestrial television standard GB20600-2006 (DTMB), including channel parameter analysis, level testing, MER testing, constellation diagram analysis, spectrum analysis, and SFN testing (single-frequency network echo characteristic analysis). It also supports online decoding and image observation for MPEG2/H.264/ HEVC and AVS+ (SD and HD).

The VAROS 106+ supports testing for DVB-S/S2, DVB-C, DTMB, FM, DAB, and ATV. Additionally, it comes with a Wi-Fi testing module to assist operators in accelerating Wi-Fi coverage deployment.

With the DATA GRABBER function, the device can record long-term test results to achieve monitoring effects.

Product Features

- High-resolution 5.7-inch color TFT display
- The frequency range covers 5-868 MHz and can be extended to 1214 MHz
- Analog: FM & ATV(RF Level Test)
- Digital: DVB-C (RF Level/BER/MER/Packet Loss)

    DTMB (RF Level/BER/MER/Constellation Diagram/SFN)

    DVB-S/S2 (RF Level/BER/MER/Constellation Diagram)
- Decoding supports MPEG2/H.264/HEVC/AVS+, supports CI
- NIT Assessment
- LCN Display

- Support spectrum analysis and TILT analysis
- With signal quality monitoring and data recording functions
- Support 5-65MHz return signal testing
- Support optical input interface testing
- Support Wi-Fi testing
- The test results can be stored via a USB interface
- Support DVI output
- The rechargeable battery is 7.2 volts / 6.6 ampere - hours
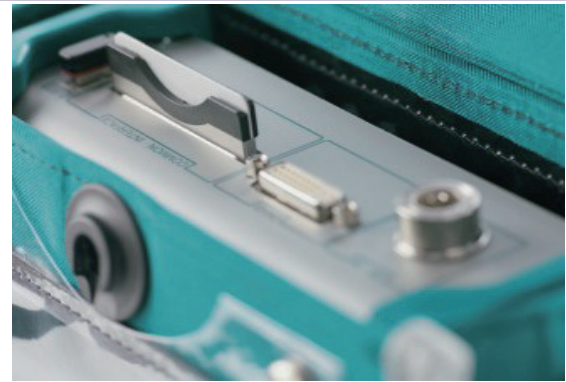
Portable Design

Configuration Instrument Case

Product Features

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The operation is clear at a glance

The keyboard with backlight makes the operation buttons clear at a glance, and the instrument interface is designed simple and quick.
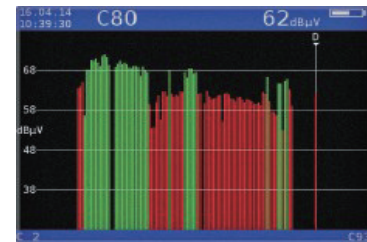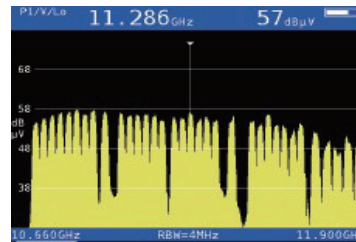
Clear interface

With a DVI external display interface and USB interface, it can directly copy screen images and supports large card interfaces.

Spectrum Scanning and Analysis

Based on full - band spectrum scanning, it can quickly detect signals across the entire domain and locate them, and can change different RBW (Resolution Bandwidth) for testing.

Optical Input Interface
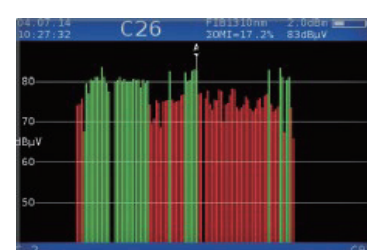
Optical Input Test Module(1310-1490-1550 nm)

The QAM modulated signal based on optical fiber transmission can be directly accessed and tested by VAROS 106+, with an SC/APC interface as the input interface. It can automatically turn off when there is no optical fiber access.

The module can achieve the conversion from optical signals to RF signals. In addition to optical power testing (DBM), it also supports optical modulation coefficient (OMI) testing. The RF-level testing is the same as the RF direct input testing, mainly including level, BER, MER, packet error count, TILT, and S/N, etc.

Contact Customer Service Immediately

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Analog TV and S/N Test Module

In the analog TV test mode, this module can achieve S/N

calculation, and its testing capability can reach 55 dB.

DVB-S/S2 Satellite Signal Analysis

Fully support DVB-S/S2 analysis, with the symbol rate supporting up to

45MS/S, and can be extended to support 16APSK/32APSK of DVB-S2.
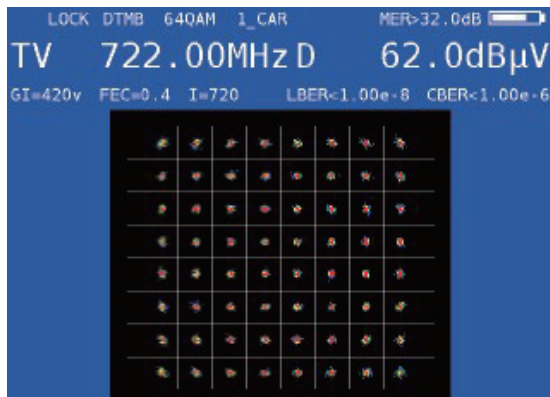

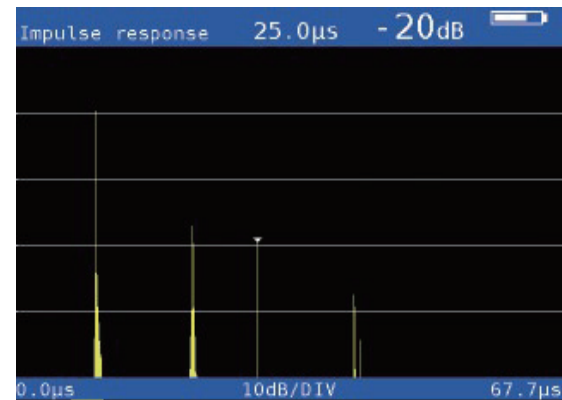## The frequency range of CATV is extended to 1214 MHz

More and more operators are expanding the capacity of their wired networks to a bandwidth of 1 GHz, and the VAROS 106+ can achieve the corresponding expansion.

DTMB (GB20600-2006) Testing

A cost-effective DTMB testing solution in the industry, supporting conventional testing and SFN (Single Frequency Network) testing, meets the needs of single frequency network construction and maintenance. German craftsmanship ensures the stability and consistency of testing.

Support echo signal analysis, which is used for SFN network construction and maintenance, and monitors network performance

Support single and multi-carrier parameter analysis, MER, BER and constellation diagram testing
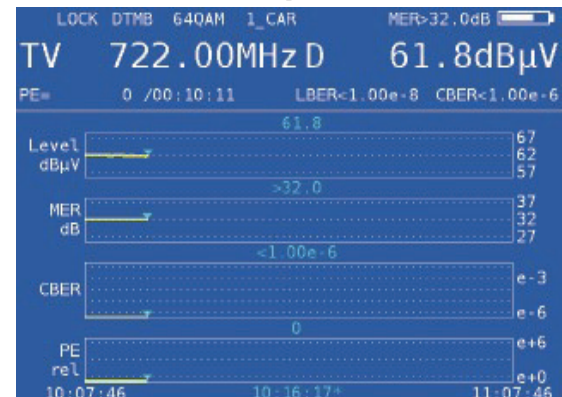
The record of executable parameters over time and the monitoring of parameter stability
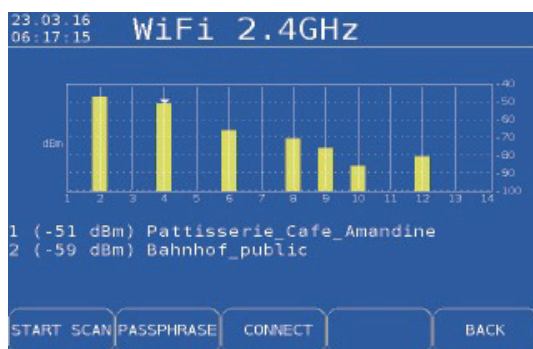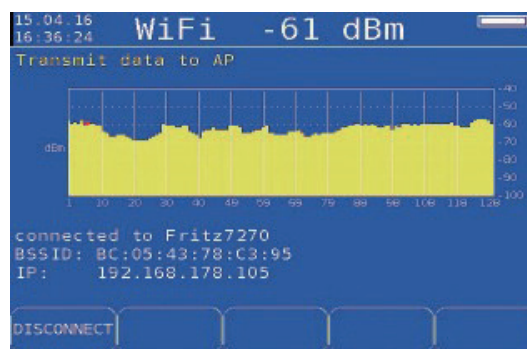
Product Features

WIFI Test

VAROS 106+ supports Wi-Fi testing, targeting the 802.11 A/B/G/N standards. It supports frequencies of 2.4GHz and 5GHz, can scan for APs (Access Points), and can test SSID, LEVEL, and channels.

Can perform WIFI scanning

Can perform WIFI parameter analysis

Testable Access Effect

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the official website