

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.

Product Overview

The ChnSml-BD Broadcast Channel Simulator is primarily designed to meet equipment and system testing requirements. It provides a realistic, effective, and simplified broadcast signal cloud environment for the development of medium wave, shortwave, and ultra-shortwave broadcast systems. It is a cross-band broadcast channel simulator developed for this purpose.

This product integrates standard channel models and self-developed localized models for the China region. It is a test instrument suitable for both indoor and outdoor field use, supports RF loop-back testing, and is applicable to public communications, broadcast television, and other fields for simulating real channel characteristics.

The innovative adaptive application mode for typical scenarios provides users with a more user-friendly operation method. It offers a channel simulation test environment for the entire lifecycle of public communication and broadcast television systems, including design, development, production, testing, and application.



Product Features

- Multiple selectable up/down conversion modules to adapt to channel simulation of signals in different frequency bands.
- Supports various channel model input methods: full parameter configuration mode, MATLAB third-party tool import mode, and user development mode.
- Integrates standard models (ITU/GJB/GB, etc.) and localized channel models for the China region.
- Supports configuration for various application scenarios: adaptive, assisted, and expert custom modes.
- Supports real-time trajectory file simulation and offers a choice between local and remote control.



Product Parameters

| Item | Parameter |
|-------------------------|--|
| Channels | 1 channel (expandable) |
| Frequency Range | 300kHz~300MHz (expandable) |
| Bandwidth | 3kHz(300kHz~1.5MHz) 50kHz (1.5MHz~30MHz) 1MHz (30MHz~300MHz) |
| Channel Models | ITU models, GJB models, GB models, Localized channel models for China region, User-defined, etc. |
| Fading Models | Rayleigh, Rice, Nakagami, Lognormal, Flat, Gaussian, etc. |
| Input Power | -30dBm ~ 0dBm(customizable) |
| Output Power | -50dBm ~ -10dBm (customizable) |
| Delay Range | 1ms~100ms |
| Doppler Shift | ±100kHz |
| Fading Range | 60dB |
| Interference Simulation | Gaussian White Noise, CW (expandable) |
| Remote Control | Ethernet |
| Power Requirement | AC220V, 50Hz |
| Mechanical Structure | Standard rack-mount structure, integrated display and control structure |





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