

YXHT 3000W Touch Screen FM Transmitter

ALL-DIGITAL TECHNOLOGIES DSP+DDS FIVE KINDS PROTECTIONS FOR SECURITY

The DSP(Digital Sound Processing) technology makes the YXHT FM transmitter an enjoyable sound broadcasting device for all music lovers.



YXHT-2 3000W FM Transmitter

HTF2-3000W



Overview

FM YXHT-2 3000W/LIGHT stereo FM radio transmitter is an integrated high-quality FM transmitter that stereo-encodes the input left and right channel audio signals and adjusts the FM modulation to the broadcast band, then RF amplify to the 3000W output power for wireless broadcasting. The transmitter adopts the most advanced software radio technology to achieve the international leading level of product performance indicators.

With a new large-scale field-programmable gate array (FPGA) and direct digital frequency synthesis (DDS) technology at up to 5G, the product achieves the highest technical specifications in the industry to date, providing listeners with a CD-like sound experience.

The product consists of audio interface unit, digital processing and frequency modulation unit, RF power amplifier unit, human-machine interface unit, communication interface unit, clock synchronization unit and power supply unit. The transmitter is installed in a 19-inch 2U standard chassis, intensive design, small size and light weight. The whole transmitter is designed with high reliability, which makes the product run continuously and stably for a long time.

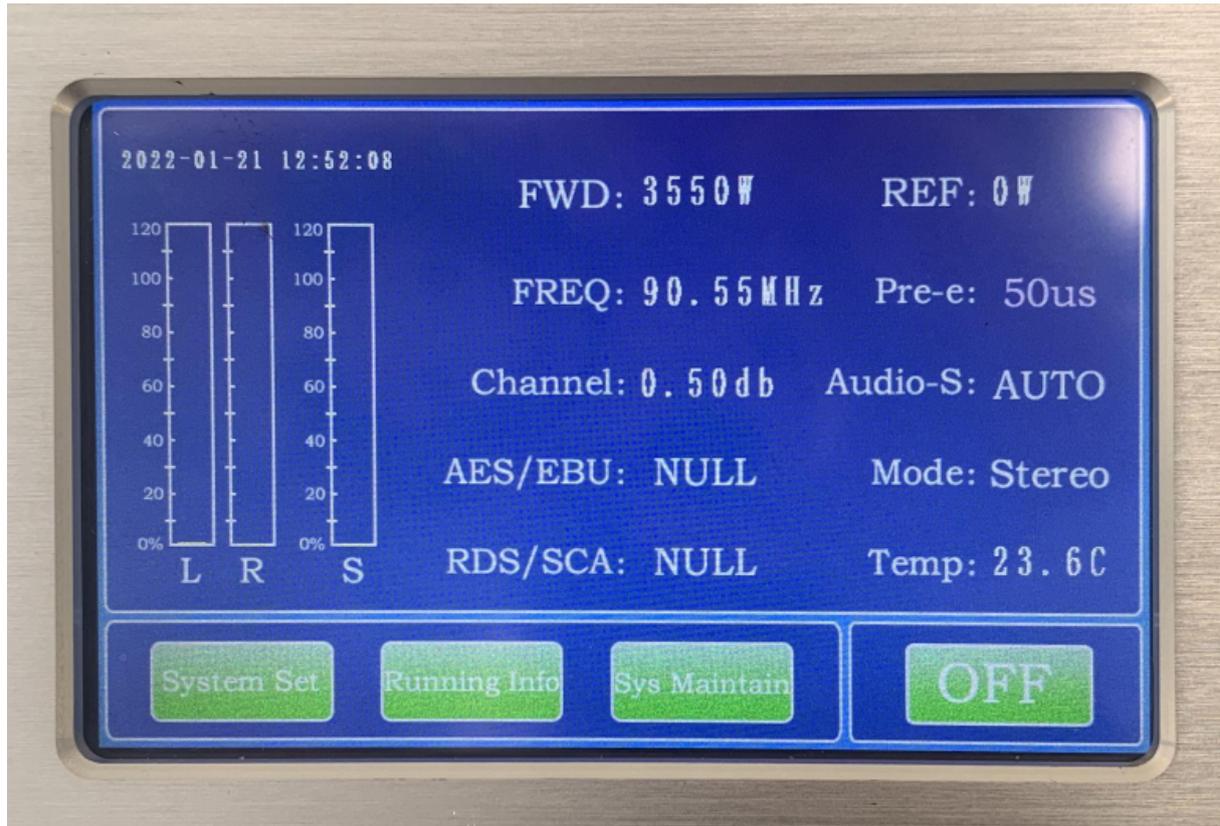
YXHT - 2 3000W FM Transmitter

HTF2-3000W



Equipments included

1.Nominal emission frequency	87MHz~108MHz (other frequencies can be customized), stepping 10kHz
2.Carrier frequency tolerance	±200Hz
3.Output power	0~3000W continuously adjustable
4.Output power tolerance	±1dB
5.Output impedance	50Ω
6.RF output connector	7/16" or 7/8"
7.Residual wave radiation	<-70dB
8.Parasitic amplitude modulation noise	<-50dB
9.Pilot frequency deviation	±0.1Hz
10.38KHz residual component in the S signal	<-50dB
11.100% modulation frequency offset	±75KHz (maximum modulation frequency offset 112.5KHz)
12.Audio pre-emphasis	0μs/25μs/50μs/75μs optional
13.Distortion	<0.05% (30Hz ~ 15000Hz, 100% modulation)
14.Frequency response	±0.1dB (no emphasis, no de-emphasis); ±0.2dB (emphasis, de-emphasis)
15.Signal to noise ratio	≥88dB (1kHz, 100% modulation)
16.Stereo resolution	≥70dB (L→R, R→L)
17.Left and right channel level difference	<0.05dB (100% modulation)
18.Analog audio input	-12dBm ~ +8dBm
19.Analog audio input impedance	600Ω balance
20.AES input impedance	110Ω balance
21.AES input level	0.2~10Vpp
22.AES sampling rate	30kHz ~ 96kHz
23.Audio Level Gain	-15dB~+15dB Step 0.1dB
24. Heat dissipation method	Forced convection
25. Power supply voltage	100VAC~265VAC/47Hz~63Hz
26.Chassis Standard	19"
27.Operating environment temperature	-10 ° C ~ +45 ° C
28.Weight	60kg
29.Size	840mm*470mm*380mm



Technical characteristics and principle block diagram

Product technology has the following technical features:

- Full process digital processing to achieve a perfect auditory effect of CD-like sound quality
- Full-scale digital processing with large-scale field-programmable gate array (FPGA) technology
- Direct digital frequency synthesis (DDS) technology at speeds up to 5G to peak transmitter specifications
- High reliability microprocessor (ARM) technology as the primary controller
- Support for multiple audio source inputs (transmitters can be automatically selected by priority):
 - AES/EBU digital audio signal input (highest priority)
 - Analog stereo analog audio signal input (2nd priority)
 - MPX stereo composite signal input (3rd priority)
- Supports one RDS or SCA subcarrier input
- Upgradeable to FM synchronous broadcast transmitter
- Electronically controlled AGC controls output power zero drift
- Perfect over-current, over-voltage, over-temperature, over-power, standing wave ratio alarm and protection
- One-touch shuttle quick keyboard input
- Real-time display of operating parameters using OLED
- With TCP/IP, RS232 communication interface
- 19-inch standard chassis, height 2U

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School Broadcast



Church Broadcast



Broadcast Room



Park Broadcast



Hotel Broadcast



Factory Broadcast

Features:

Hearing similar to CD

All-digital technologies DSP+DDS Built-in audio signal limiter

Analog and Digital (AES/EBU) audio signal input directly. AGC circuit can keep the Output Power stability.

Big LCD display all the parameters in real time. Communication Interface by RS232 for remote

Five kinds of protections for the security Compact structure

Warranty: 6 years for all transmitters in our factory.



We are original manufacturer specialized in professional FM & TV transmitters, Antennas, Digital audio equipments, etc. We are serving thousands of Radio & TV stations all over the world. Also we do ODM or OEM for companies all over the world. We are using advanced technology in all products. Our products are all high performance, high reliability and reasonable price.

The Certificates



CE



ISO



FCC