



# **TY-1001 10W FM Stereo Transmitter**

## **Technical Specification V3.01**

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## Overview



## Outline

TY-1001 is a new type of professional radio transmitter with high performance and high reliability. This machine applied the new technology of DSP (digital signal processor) and DDS (direct digital synthesizer). It can provide the user a perfect auditory perception through its excellent digital processing technology. It consists of master display, auditory interface, digital signal processing, power amplification, remote telemeter interface and power supply.

## Main features

1. Perfect auditory perception achieved by new technology of digital processing.
2. Adapted DSP (digital signal processor) technology.
3. Adapted DDS (direct digital synthesizer) technology.
4. Supporting AES/EBU input.
5. Supporting SCA Input.
6. Supporting AGC output, there will be no drift in power.
7. Perfect protection from over current, over voltage, over temperature, over power, over SWR (standing-wave ratio).
8. Large LCD displays working parameters.
9. Customize accepted.

## Specifications:

Power Voltage	90VAC~AC260V, 50Hz~60Hz
Power Efficiency	≥60%
RF Frequency Range	88MHz~107MHz( or specified by users) Stepping 10KHz
RF Output Power	10W
RF Output Impedance	50Ω
RF Output Connector	N(female)
Carrier Frequency Deviation	±200Hz
Harmonic Suppression	>65dB
Parasitic Amplitude Modulation	<-50dB
Modulation Frequency Deviation	±75kHz(100%modulating)
Pre-Emphasis	0μS, 50μS, 70μS
Audio SNR	75dB, 1kHz(100%modulating)
Audio Response	±0.1dB, 10Hz~15KHz
Distortion	<0.1%, 10 Hz ~15000 Hz
Stereo Separation	55dB, 10Hz~15000Hz
Pilot Carrier Frequency	19kHz±1Hz
Analog Audio Input Impedance	600Ω,balance
Digital Audio Input Impedance	110Ω,balance
Pilot Frequency Modulation	8%~10%