



MF/HF SSB

## RADIO WITH CLASS-A DSC



### BRIEF INTRODUCTION

WT-B150 is an important part of GMDSS system, which is adopted by the most advanced software radio technology and digital RF technology, it provides strong performances of receiving, transmission and operation and is fully compliant with the standards of IEC 61097-9, IEC 493-13 and other international standards. Besides, WT-B150 provides rich extended functions and interface.

### FUNCTION

WT-B150 and its derivative products are used in variety ships. According to international maritime rules, the ships working in area of A2 to A4 must install this device. Besides, its derivative products can be used by land users as required.

### FEATURE

Convenient installation for users by the separated design of control unit and main unit.  
Three Operating Modes of SSB, AM and digital DSC.  
One-click answer and forwarding of distress alarm and help signal.  
SQL function.  
Fully compliant with the standards of IMO relevant to Digital selective-calling system.  
Six simultaneously distress channel on duty, six routine scan channel on duty, and one SSB fixed frequency channel on duty  
Automatic calibration function of dock frequency offset and excellent performance of frequency error.  
Internal and external switch for GPS.  
Desktop installation and embedded installation.  
The function of remote software upgrade.  
The function of Chinese or English sms transceiver (Optional)  
Analog and digital communication of SSB. (Optional)  
Voice recording function of communication (Optional)





## GENERAL

FREQUENCY RANGE	1.605MHz ~27.5MHz (TX) , 0.5MHz ~ 30MHz (RX)
FREQUENCY STABILITY	<10Hz
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MODULATION TYPE	SSB, DSC, AM , NBDP
OPERATING TEMPERATURE RANGE	-15°C ~ 55°C
POWER REQUIREMENT	24VDC + 30%/-10%
POWER CONSUMPTION	RX: <1.0A; TX: <20A (Max)
PROTECCTION FUNCTION	Overtoltage, under-voltage, over-current, reverse, high VSWR protection
EXTERNAL INTERFACE	RS422, LAN and USB2.0

## BRIEF INTRODUCTION

WAT-150 antenna coupler supports two tuning methods, auto control and remote control. Also it owns a short-wave full-band memory tuning function. Imported relays, high-quality components and parts are adopted in WAT-150 antenna coupler to guarantees its excellent performance and reliability.



## TRANSMITTER

OUTPUT POWER	200W/150W/100W
SIDEBAND SUPPRESSION	≤-60dBc
CARRIER SUPPRESSION	≤-60dBc
CLUTTER SUPPRESSION	≤-60dBc
Ip3	≤-28dBc

## RECEIVER

SENSITIVITY	≤ + 3dBuV (SINAD=20dB)
AUDIO OUTPUT POWER	4W/8 Ω
AUDIO FREQUENCY RESPONSE	350Hz ~2700Hz, <1dB
AGC	≥100dB
POWER SUPPLY	12VDC~30VDC, reverse connection protection
FREQUENCY RANGE	1.5MHz ~ 30MHz
CURRENT	<1.0A
INPUT IMPEDANCE	50 Ω
OPERATING TEMPERATURE	-20°C ~ +60°C
TUNING POWER	minimum 2W continuous wave
INTERFACE	control interface, RF interface
BEARING POWER	200W (PEP), 150W continuous wave
REMOTE CONTROL	RS422, speed of 9600bps
CHANNEL CAPACITY	300
THE FIRST TUNING TIME	<6S, not exceed 15s
STATUS INDICATOR	tuning, tuned, and tuning fails
MEMORIZED TUNING TIME	<100ms
TUNED STANDING- WAVE RATIO	<2, typical value of 1.5
ANTENNA MATCHING	can match for 6m, 8m, 10m vertical antenna, inverted V antenna, three-wires antenna and dish antenna.

