

# T300F

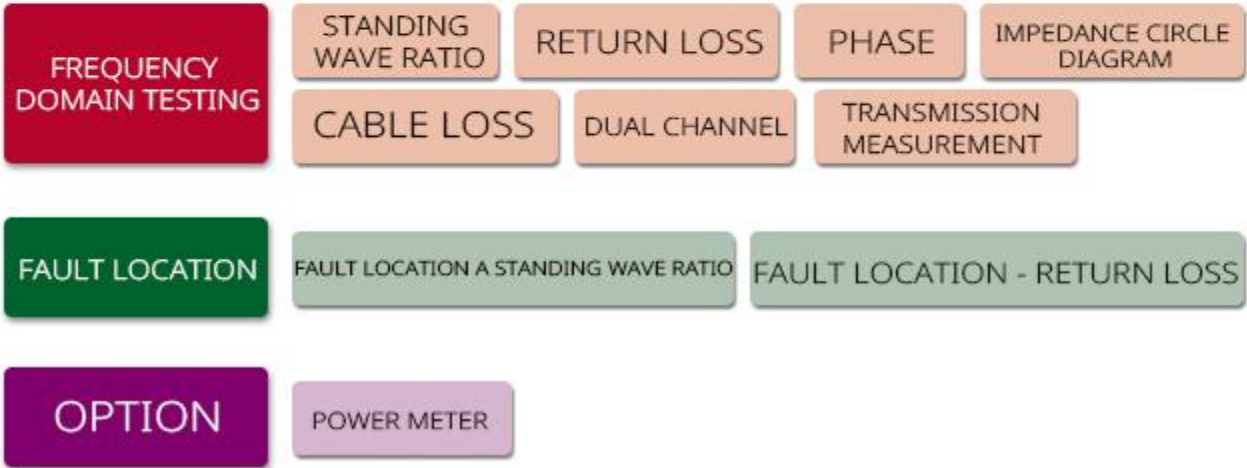
## Antenna VSWR Tester

Handheld Vector Network Analyzer (300kHz-3GHz)



# MAIN FUNCTION

OLJKDFJGLDSJHGOIKDFGHKNSDFBKSDFJLSDVNKISDFHSDNGBDFNIKPSADHJFNKJSDHFOSLDBJMLFCDBJDFOIFPSEJLGNFOW  
OSUAOFJSDNGKDFSGHBVKISDFJLKASDCPNCKVBHDXIFYUOAPHJNDLSVNCXMMNBASDIFYHDSL  
KVNDBJVBHSDIFUJLFDSONJMFOLGMTRHLKRUROISDJGNLSFDVNKJXCVNLKASFGNKDFJGHBVNDSEFVJNKALSD



—PRODUCT INTRODUCTION—

# PRODUCT INTRODUCTION

OLJHDFJGJLSJHDSKDFJHNSDFNSDFJLSDVNRKEDTHSDJGEDTHNSADHJFNJUSCHTOSLGLJLT.CDJDYDFPSESJNFWY  
OSJADTJSDNGKJTSCHREKISSEJLKASDGFNCBYBHDXYLOAFHJNDGLVNCJMYNBSDFYHSL  
KYNKJNCHSDTUJUTDSKJNFJLGNTRHJGLRSDJUNLSIDVJNJCYNKJASTONKZFJGHEVYKDSYJNKLSD



THE T300F IS SUITABLE FOR INSTALLATION, COMMISSIONING AND MAINTENANCE OF MEDIUM WAVE, FREQUENCY MODULATION BROADCASTING AND RADIO AND TELEVISION TRANSMISSION SYSTEMS. IT IS A NEW PRODUCT DESIGNED WITH LOW POWER CONSUMPTION AND HIGH INTEGRATION BASED ON THE GENERAL VECTOR NETWORK ANALYZER RESEARCHED AND MANUFACTURED BY TFN OVER 15 YEARS AGO, AND CLOSELY COMBINED WITH THE FIELD WORK NEEDS OF DOMESTIC RADIO AND TELEVISION, BASE STATION CONSTRUCTION, COMMISSIONING AND MAINTENANCE, WHICH IS MORE SUITABLE FOR THE PRACTICAL APPLICATION OF ENGINEERING SITE.

## PRODUCT CHARACTERISTICS

—PRODUCT FEATURES—

OLUJOFJGLESJHGOEDFGRKSEIFENKSEFJLZKANNKGDTHSDMGOEDTHHFSACHJFNJLSZHTGOLGDNILYLOJLOFDFPSELSNFEK  
OLJADFZGNGKJDFCHVRIKSEFJLJASDFHCKRYBNDKBYLYCAHJNDLSNWXMYNDASDFVHJOL  
KYNKACHSNTJLJFDGKNHFDLGNTHNKLRLKQSDJONLSTOVNKJFYVUKJASESHKDFJGHBYRQFYJANALSD

## PROFESSIONAL VECTOR NETWORK ANALYZER

ACCURATELY TEST VARIOUS INDICATORS OF TRANSMISSION AND REFLECTION OF VARIOUS DEVICES.

## ACCURATELY LOCATE THE FAULT POINT

BY MEASURING THE STANDING WAVE RATIO/RETURN LOSS VALUE OF THE SYSTEM LINE,  
THE FAULT POINT IS ACCURATELY LOCATED.

THE QUALIFIED LINE IS  
JUDGED AUTOMATICALLY

ACCORDING TO THE CONSTRUCTION REQUIREMENTS, SET THE CORRESPONDING QUALIFIED THRESHOLD VALUE. AUTOMATICALLY DETERMINE WHETHER THE TEST RESULT IS QUALIFIED.

SUITABLE FOR A VARIETY OF  
LIGHT ENVIRONMENTS

HIGH BRIGHTNESS 6.5-INCH LCD BACKLIT COLOR LCD SCREEN, CAN BE SET "HIGH CONTRAST", "NIGHT" DISPLAY MODE, CAN BE CLEAR IN STRONG LIGHT OR DARK ENVIRONMENT, IMPROVE THE FREQUENCY OF FIELD TEST.

WORKING EXCESSIVELY  
LONG HOURS

THE INSTRUMENT IS EQUIPPED WITH 5.2AH INTELLIGENT LITHIUM BATTERY, TYPICAL WORKING TIME IS MORE THAN 6 HOURS, CONVENIENT FOR TESTERS TO TEST IN THE ENVIRONMENT WITHOUT EXTERNAL POWER SUPPLY.

## POWERFUL ANALYSIS FUNCTION OF MANAGEMENT SOFTWARE

THE MANAGEMENT SOFTWARE CAN DOWNLOAD THE TEST DATA FROM THE INSTRUMENT THROUGH THE NETWORK CABLE, ANALYZE THE HISTORICAL DATA, GET THE PERFORMANCE TREND OF THE ANTENNA FEEDER SYSTEM, AND GENERATE REPORTS.

# MAIN TECHNICAL INDEX

—TECHNICAL INDEX—

OLJHDFJGLOS PIGGHWDFGRK KEDYKXDF JLJGDNH HSDYHSDHJGSDTH HFSACHFNKJSDHFSGLDNLH FZBLJEDFSSLSGATREH  
DSJAHDFJSDHKA LFSCHHWYDFJLJAGJEDFJSDHKBHDFJSDHFNBJLJDSJHCFJWJNBJEDYHJDS  
KJNKAJCHJSDTHJLJFDJSDHJNFDJGNTREJNBJKJSDJLJLJSDHJNBJKJASFGJADJHJNBJKJSDJNBJKJSD



FREQUENCY	
FREQUENCY RANGE	300kHz ~ 1600MHz ( 1.6GHz~3GHz OPTIONAL )
FREQUENCY STABILITY	± 2ppm ( 0 ~ 50° C )
FREQUENCY ACCURACY	± 5ppm ( 25 ± 5° C )
FREQUENCY RESOLUTION	1kHz
LEVEL	
OUTPUT LEVEL RANGE	≥ 0dBm
SYSTEM	
SCAN NUMBER	101, 201, 401, 801, 1601
MEASURED VELOCITY	1.2MS/ POINT (RETURN LOSS); 2MS/ POINT (FAULT LOCATION)
INTERFERENCE SUPPRESSION	FREQUENCY: 13DBM (WITHIN ± 10KHZ) CHANNEL: 20DBM (PARTIAL > 1MHZ )
PORT CHARACTERISTICS	RETURN LOSS ≤ -10DB
DIRECTIVITY	≤ -42DB(AFTER STANDARD CALIBRATION) ≤ -38DB (AFTER FULL BAND CALIBRATION)
TRANSMISSION DYNAMIC RANGE	80dB
DAMAGE LEVEL	+25DBM (RF SIGNAL) ± 50V (DC VOLTAGE) MEASUREMENT
RETURN LOSS	RANGE ODB~60DB RESOLUTION: 0.01DB
STANDING WAVE RATIO	MEASUREMENT RANGE: 1~65 RESOLUTION: 0.01
CABLE LOSS	MEASURING RANGE ODB~30DB RESOLUTION: 0.01DB
FAULT LOCATION	MEASUREMENT RANGE OF RETURN LOSS: ODB~60DB STANDING WAVE RATIO MEASUREMENT RANGE: 1~65 RANGING RANGE: (POINT -1)/(SPAN"2)"VF(CABLE SPEED FACTOR)"C(LIGHT SPEED) DIS- TANCE RESOLUTION: RANGING RANGE /(POINT -1)

PHASE	MEASUREMENT RANGE: -180°~+180° RESOLUTION: 0.01°
SMITH DIAGRAM	RESOLUTION: 0.01
INPUT/OUTPUT PORT	
RF INPUT PORT	50Ω N NEGATIVE TYPE
RF OUTPUT PORT	50Ω N NEGATIVE TYPE
Mini USB INTERFACE	USB2.0 4pin
USB INTERFACE	USB1.1 4pin
LAN INTERFACE	10/100M RJ45
POWER SUPPLY AND DISPLAY	
AC-DC POWER ADAPTER	INPUT 100–240VAC, 50–60Hz OUTPUT 19VDC/3.42A
LITHIUM BATTERY	11.1V/5.2Ah
CHARGING TIME	< 5 HOURS
CONTINUOUS WORKING TIME	TYPICAL VALUE> 6HOURS
LIQUID CRYSTAL	6.5" TFT LCD, 640*480
SUPPORT FOR LANGUAGE ESD	CHINESE, ENGLISH
ELECTROSTATIC IMMUNITY OF PORTS	≥ 8 KV (CONTACT DISCHARGE) 15KV (AIR DISCHARGE)
OTHER	
HUMIDITY	40℃ 95%
OPERATING TEMPERATURE	-10℃ ~ 55℃
STORAGE TEMPERATURE	-40℃ ~ 80℃
WEIGHT	< 2.2kg
VOLUME (LENGTH × WIDTH × HEIGHT)	258 × 173 × 74mm



# Product Display









