

STATUS: Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Navy

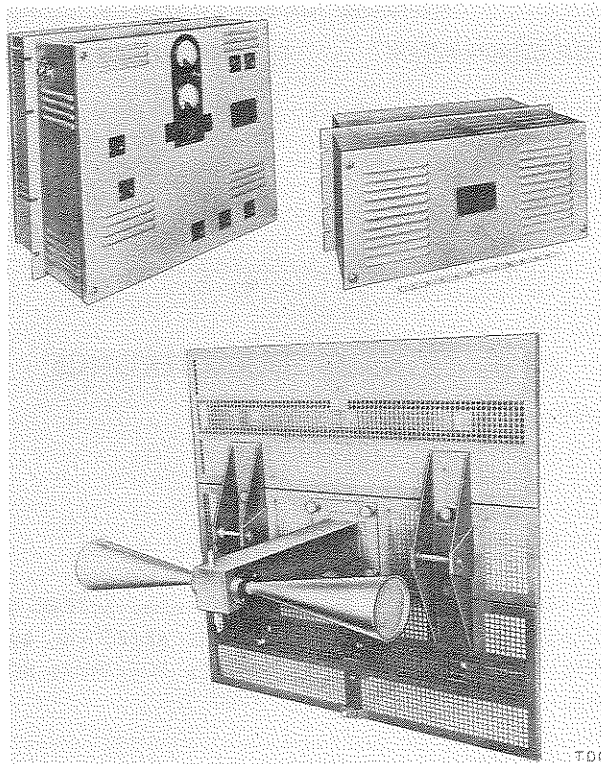
DATE OF THIS SHEET: 2 May 52

**AN/FRT-TYPE**

SERVICE TYPE NUMBER:

TDG, TDG-1

HF RADIO TELEPHONE TRANS EQUIP



High Frequency Radio Telephone Transmitting Equipments TDG and TDG-1 are radio transmitting terminals of permanent point-to-point, v-h-f, radio link systems. They provide one crystal-controlled channel within the frequency range, 132 to 156 mc. Facilities are provided for remote control of the equipment.

These units are used for voice, or multichannel telegraph, transmission using voice frequencies; or combinations of voice and telegraph derived from suitable carrier terminal equipment.

Portable Antenna, Navy Type, CW-66157, is used for semipermanent installations.

For permanent high tower installations either the 9-db antenna, Western Electric Co. Type D-150428, or the 3-db antenna, Western Electric Co. Type D-140427 is required, but not supplied.

Outdoor Cabinet, Navy Type CW-10589, (which permits installation of the equipment at the base of the antenna tower or pole) is available.

<b>AN/FRT-TYPE</b>		INSTRUCTION LITERATURE: NavShips 900,620: 95330
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**MAJOR COMPONENTS**

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter CW-52255, -52366	15-3/4 x 19 x 10	43
1	Spare Part Panel CW-10568	3-1/2 x 19 x 5	3
1	Rectifier Power Unit CW-20143	8-3/4 x 19 x 11-1/4	75
1	Portable Antenna CW-66157	40 x 40 x 20	65

**OPERATIONAL CHARACTERISTICS**

TACTICAL USE: Shore stations.

INSTALLATION: Ground.

APPROXIMATE RANGE (IN MILES): Line of sight.

CAN COMMUNICATE WITH: AN/ARC-1, -3, -5, -18, -29, -36; AN/CRC-2; AN/FRC-7; AN/GRC-30;  
 AN/HRC-20, -22; AN/PRC-17, -20; AN/TRC-7; AN/TRQ-1; AN/URC-4; AN/URR-12, -21; AN/VRC-1;  
 BC-630, -797; MAR; MBS; R-137/GR; RBK; RBQ; RC-256; RCK; RCO; SCR-522, -542, -574, -575,  
 -607, -616, -624, -644.

**TECHNICAL CHARACTERISTICS**

FREQUENCY RANGE IN MEGACYCLES: 132 - 156.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Mcw, voice.

POWER OUTPUT: 12 w.

POWER REQUIREMENTS: 390 w, 115 v, (+10%)60 cyc, 1 phase, ac.

**PHYSICAL CHARACTERISTICS**

High Frequency Radio Telephone Transmitting Equipments TDG, TDG-1 measure 28 x 19 x 11-1/4 inches.