STATUS: Limited Standard

CLASSIFICATION OF EQUIPMENT : Unclassified

USING SERVICE: Navy

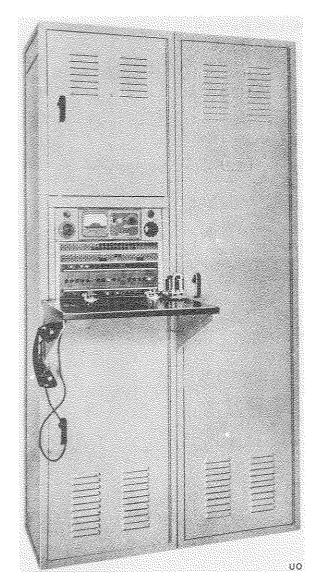
DATE OF THIS SHEET: 29 May 52

AN/FRA-TYPE

SERVICE TYPE NUMBER:

O

VOICE CONTROL AND SPEECH PRIVACY EQUIPMENT



Voice Control and Speech Privacy Equipment UO is terminal equipment used to connect four-wire radiotelephone transmitter and receiver circuits to normal two-wire telephone plant. It also provides speech scrambling and unscrambling to prevent unauthorized listening-in on radiotelephone circuits.

This equipment includes channel shifter and restorer circuits, which by shifting one voice channel of a single side band, twin-channel, radiotelephone circuit, provides a means of reducing crosstalk between the two channels.

Radio noise is effectively reduced by voice operated, gain-controlled amplifiers, which raise speech waves to all telephone stations to the same volume level, and by a noise reducer which attenuates noise signals during intervals between speech syllables or words.

It is housed in six 19-inch relay cabinets and provides for one-cirannel operation.

Several of the components will accommodate twoor four-channels and are not required on a one-forone basis, for multichannel operation.

AN/FRA-TYPE

UO :SERVICE TYPE NUMBER

VOICE CONTROL AND SPEECH PRIVACY EQUIPMENT

INSTRUCTION LITERATURE: W.E.Co. Nos. 1,114 through 1,121, 1,128 CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Navy

DATE OF THIS SHEET: 29 May 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGH	IT (LBS)
*	Control Terminal CW-23532 (Control Bay)	84 × 22-1/4 × 17	Not Å	vailable
*	Control Terminal CW-23534 (Auxiliary Bay)	84 × 22-1/4 × 17	\$6	\$6
女女女	Privacy System CW-50293 (Common Bay)	94 × 22-1/4 × 17	6 5	\$1
*	Privacy System CW-50295 (Channel Bay)	84 × 22-1/4 × 17	¢8	答
火 ★	Channel Shifter Bay CW-50296	84 × 22-1/4 × 17	16	er
**	Vogad Bay CW-50299	84 × 22-1/4 × 17	*	8

* (1) per channel.

** (1) per twin channel.

*** (1) per four channels.

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shore stations.

INSTALLATION: Ground, fixed.

CAN COMMUNICATE WITH: This is auxiliary signal modifying apparatus used in conjunction with

primary communication equipment.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: 250 - 3,000 cps, or

2,250 - 5,000 cps (channel shifted).

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: +7 to +12 volume units.

POWER REQUIREMENTS: 1,500 w, 105-125 v, 50/60 cyc, 1 phase, ac.

PHYSICAL CHARACTERISTICS

Voice Control and Speech Privacy Equipment UO measures 84 x 133-1/2 x 17 inches.

CONFIDENTIAL—Security Information

ORIGINAL