

NBSV 45

COMPANY CONFIDENTIAL

Provisional Data Sheet

PHILIPS USFA BV

GENERAL

NBSV 45 is a stand alone Narrow-Band Secure Voice Equipment designed for high-grade speech security for office use and is of a compact desk-top design. The NBSV 45 operates over military and public switched telephone networks.

OPERATING MODES

- Clear - Normal Telephone Calls
- Secure - Full duplex
- Half duplex
- Push-To-Talk (PTT)

SPEECH INPUT-OUTPUT

- Desk set
- Remote Capability Option

TELEPHONE SERVICE REQUIRED

- Standard Voice Grade Lines
- Two for Full Duplex
 - One for Full Duplex
 - One for Half Duplex

Touchtone or Rotary Dial Switch Compatible

Certified to meet the technical interface requirements for National Security Exemption to FCC, Part 68

Automatic or Manual PBX Interface

VOICE DEGITIZERS

- Linear Predictive Coder (LPC-10)
- 2400 bps Data Rate



PHILIPS

CRYPTOGRAPHIC SUBSYSTEM

High Grade Cryptologic Algorithm

TEMPEST Tested

Storage for 18 Commonly Held Net Variable Provided (converted at the terminal by user).

Storage of an optional large number of Key Cube.

Personality Module for Added Physical Security.

Erase button.

Alarms: Cryptographic Subsystem, Operational, Unauthorized Access.

MODEM

Initially Synchronized in Full Duplex 2-wire in Approximately Ten Seconds

Fixed Compromise Equalizer

Employs 2400 bps Rate Internal Modem (CCITT V26/V26 bis)

Employs 2400 bps Rate External Modem (CCITT V26 ter/V22 bis)

External Modem Port Provided
- V24/V28 Standard Interface
- 2400 bps Rate

PHYSICAL

Size: 25 cm x 15 cm x 40 cm
9.8 in. x 5.9 in. x 15.7 in.

Weight: 60 lbs
±12 kg

Power: 110V or 220V, 47-440 Hz
35 Watts (Max)

Operating Temperature
Limits: 0° - 50°C.
32°F - 122°F

MTBF: 5000 hrs.
- Office Environment

MODE COMPTABILITY

Units Automatically Achieve Common Operating Modes
- 2400 bps
- Net point to point - Net broadcast - Key Cube
- Full Duplex - Half duplex

DATA

Accepts 2400 bps Digital Data
EIA Standard RS-232C Interface
CCITT Interface V24/V28

TEST

Self testing
Built in Testequipment

CONTROLES AND INDICATORS

8 digit Alpha-numeric Display
Clear/Secure Indicator
On/Off Switch
16 button Key Pad
Secure Mode Button

Company profile

Philips Usfa B.V. has more than 30 years' experience in the development and manufacture of electronic and electro-optical equipment for military applications. Its modern, comprehensive facilities provide an ideal environment for project-oriented development, manufacture repair and maintenance operations, and the company also has direct access to the high-level expertise and advanced technology of the entire Philips Concern, including the Philips Research Laboratories.

Philips Usfa B.V. meets NATO AQAP-1 quality control system requirements for industry, as laid down in STANAG 4108 - generally recognised as one of today's most stringent industrial quality-assurance programs for military equipment.

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