

RESTRICTED

ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS
(By Command of the Army Council)

TELECOMMUNICATIONS
F 190

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STATION, RADIO, B.C.C. HF156

TECHNICAL HANDBOOK - DATA SUMMARY

NONENCLATURE

Designation: Station, Radio, B.C.C. HF156.
Part No: Z1/5820-99-949-1402.

Secondary: Distant communication from a fixed position utilizing a transportable aerial system.

ROLE

Primary: Manpack set intended for groups or individuals in isolated parts or difficult terrain.

DESCRIPTION

A low power transmitter-receiver, switch-tuned to any one of six crystal-controlled frequencies and designed for simplex operation. By suitable choice of frequencies, communication can be maintained over long distances throughout the 24 hours. It can be operated with either a.m. or c.w.

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Power levels

Transmitter: 1.1-2.5W on c.w.
0.9-1.5W on r.t.

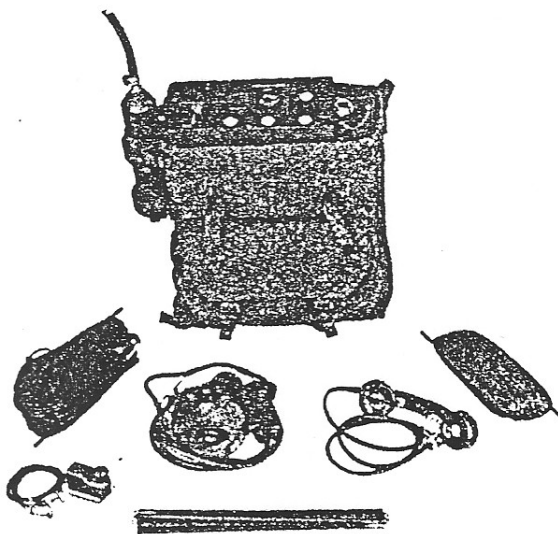
Receiver sensitivity

3µV for 12dB signal-to-noise ratio with 30% mod depth
3µV for 20dB signal-to-noise ratio on c.w.

POWER REQUIREMENTS

Power supply unit, transistorized: An integral part of the station equipment utilising two lead acid accumulators 2V 20Ah (type ZVPI9) Z9/6140-99-110-2518.

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The complete station is housed in a waterproof metal case, contained in a canvas carrying bag which can be opened at the top to provide access to the operational controls. A rod aerial is carried for mobile operation and a dipole or quarter wave aerial, convenient for distant communication, is provided in a separate carrying bag. This bag is suitable for attachment to standard Service webbing equipment.

PHYSICAL DATA

| Station | Aerial carrier bag |
|-------------------|--------------------|
| Weight 30.1/2 lb. | 6 lb. |
| Height 1 ft 5 in. | 9 in. |
| Width 1 ft 3 in. | 10.1/2 in. |
| Depth 6 in. | 5 in. |

CLIMATE RANGE

Panclimatic

TRANSPORTATION DATA

Immersion proof

PACKAGING DETAILS

DEF 1234 Method 2

OPERATIONAL DATA

Station facilities include, telephone headset assembly for carrier-operator's use; telephone handset; morse key for c.w. working.

| | |
|----------------------------------|--------------------------------------|
| Using rod aerial on the move | } 20 miles c.w. } 12 miles r.t. |
| Using dipole from fixed location | } 180 miles c.w. } 100 miles r.t. |

ELECTRICAL DATA

Carrier frequency ranges

| | |
|-----------|-------------|
| Channel 1 | 2.5-3.7Mc/s |
| Channel 2 | 2.7-4.3Mc/s |
| Channel 3 | 2.7-4.3Mc/s |
| Channel 4 | 4.3-6.0Mc/s |
| Channel 5 | 4.7-7.5Mc/s |
| Channel 6 | 4.7-7.5Mc/s |