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STATION, RADIO, B.C.C. HF156
TECHNICAL HANDBOOK - DATA SUMMARY

NOXENCLATURE
Designation: Station, Radio, B.C.C. HF156.
Role: Primary: Manpack set intended for groups or individuals in isolated parts or difficult terrain.

Issue 1, 1 Jun 62

Distribution - Class 1180. Code No J

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

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.

FREQUENCY RANGE
H.F.: 15600 kHz to 15800 kHz
V.H.F.: 39.20 kHz to 39.8 kHz

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

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

POWER REQUIREMENTS
Power supply unit, transistorized: An integral part of the station equipment utilizing two lead acid accumulators 2V 20Ah (Type BVF19) 29/6140-90-110-2010.

EM820/2361

END

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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**

<table>
<thead>
<tr>
<th></th>
<th>Aerial carrier bag</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>6 lb.</td>
</tr>
<tr>
<td>Height</td>
<td>9 in.</td>
</tr>
<tr>
<td>Width</td>
<td>10.1/2 in.</td>
</tr>
<tr>
<td>Depth</td>
<td>5 in.</td>
</tr>
</tbody>
</table>

**CLIMATE RANGE**

Panclimatic

**TRANSPORTATION DATA**

Immersion proof

**PACKAGING DETAILS**

DEF 12254 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: 2.5-3.7 mc/s
- Channel 2: 2.7-4.3 mc/s
- Channel 3: 2.7-4.3 mc/s
- Channel 4: 4.3-6.0 mc/s
- Channel 5: 4.7-7.5 mc/s
- Channel 6: 4.7-7.5 mc/s