

High Frequency Vehicular Radio (HFVR), AN/MRC-148

System Characteristics:

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| TAMCN: | A00677G |
| NSN: | 5820-01-533-6762 |
| Technology: | Digital |
| Spectrum: | HF-VHF 1.6 MHz - 60 MHz |
| Orientation: | Omni-directional |
| Mobility: | OTM |
| Power: | High/Low – 150/60 Watts |
| Distance: | BLOS |
| Operational Mode: | Voice, Data (19.2 Kbps) |
| Encryption: | Embedded NSA approved Type 1 |
| Quantity Fielded: | 1021 (March 2010) |
| AAO: | 1385 |



System Description: The AN/MRC-148 is a vehicular mounted, 150W variant of the AN/PRC-150 radio set. The AN/MRC-148 is virtually identical to the AN/VRC-104 but is distinguished by being a dedicated communication asset whose use is directed by the G6/S6. The AN/MRC-148 provides 150 watts PEP/average in the HF portion of the frequency range (1.6 to 29.99999MHz) and 60 watts PEP/average for the VHF portion (30 to 59.99999 MHz) in a mobile configuration.

The AN/MRC-148 system consists of the components listed below:

- AN/PRC-150 (C) Radio
- Vehicle Automatic Antenna Tuner
- Vehicle HF Whip Antenna Mount
- 150W Amplifier

Locations:

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|--------------|-----------------------------------|
| CE: | Comm Bn, Force Recon |
| GCE: | HQ Bn, Inf Regt, Inf Bn, Recon Bn |
| ACE: | MACG |
| CSSE: | MLG |

Programmatic Information:

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| Manufacturer: | Harris Corporation |
| Contract Vehicle: | MCSC IDIQ (Mar 05) M67854-05-D-7015 |
| MCSC Acquisition Status: | Procurement |
| P3I: | N/A |
| IOC: | FY03 |
| FOC: | FY09 |
| Fielding Plan: | Vertical |
| Unfunded Requirement: | No |

Lifecycle Configuration Control:

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|-----------------------------------|------------------------------------|
| Initial Fielding: | FY03 |
| Quantity Fielded: | 1021 (March 2010) |
| Warranty: | 10 year (Radio) 1 year (System) |
| Logistics Support Concept: | 3-level (O/C-F-L) |

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| Upgrades: | N/A |
| Variations: | None |
| Legacy Equipment Substitute: | AN/MRC-138 |
| Lifecycle Status: | Stable |
| Expected Replacement System: | JTRS Solution |
| Expected Replacement Timeframe: | 2020-2024 |

Requirement:

Stated Need: SON

Operational Requirements Documentation (ORD): There is no specific ORD for this system. All procurements fulfill the JTRS JORD.

Concept of Employment: The AN/MRC-148 is a multi-component system that the Marine Corps has determined best suited for large mounting spaces such as a HWMMV. This is a replacement for the AN/MRC-138. The AN/MRC-148 in form, fit and function identical to the AN/VRC-104 except it is a dedicated G6/S6 asset. Units and quantities are IAW the MROC AAO Feb 2008.

Operational Impact: This radio system will serve as a long-haul HF system capable of ALE compatible with MIL-STD 188-141A ALE for frequency analysis.

Risks:

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| Cost: | <u>Low</u> – Established costs |
| Schedule: | <u>Low</u> – Readily available <30 days. |
| Performance: | <u>Low</u> – JTRS compliant waveform |

Status: Continues to be fielded IAW the TCM AAO Feb 2008.