

AmberJack® **Direction-Finding System**

Product Description

AmberJack® is a phased array direction-finding (DF) antenna system capable of tracking and locating mobile phone users and base stations. The DF antenna array is designed to operate with Harris' Gossamer®, KingFish®, StingRay®, and StingRay II® products, enabling tracking and location of targeted mobile phones, as well as base stations. AmberJack-X operates in the U.S. cellular 850 and PCS 1900 bands, and AmberJack-G operates in the EGSM 900 and DCS 1800 bands. AmberJack-W operates in all the bands above as well as iDEN™ and UMTS bands I and IV.

AmberJack combines Harris' expertise in phased array antenna technology and

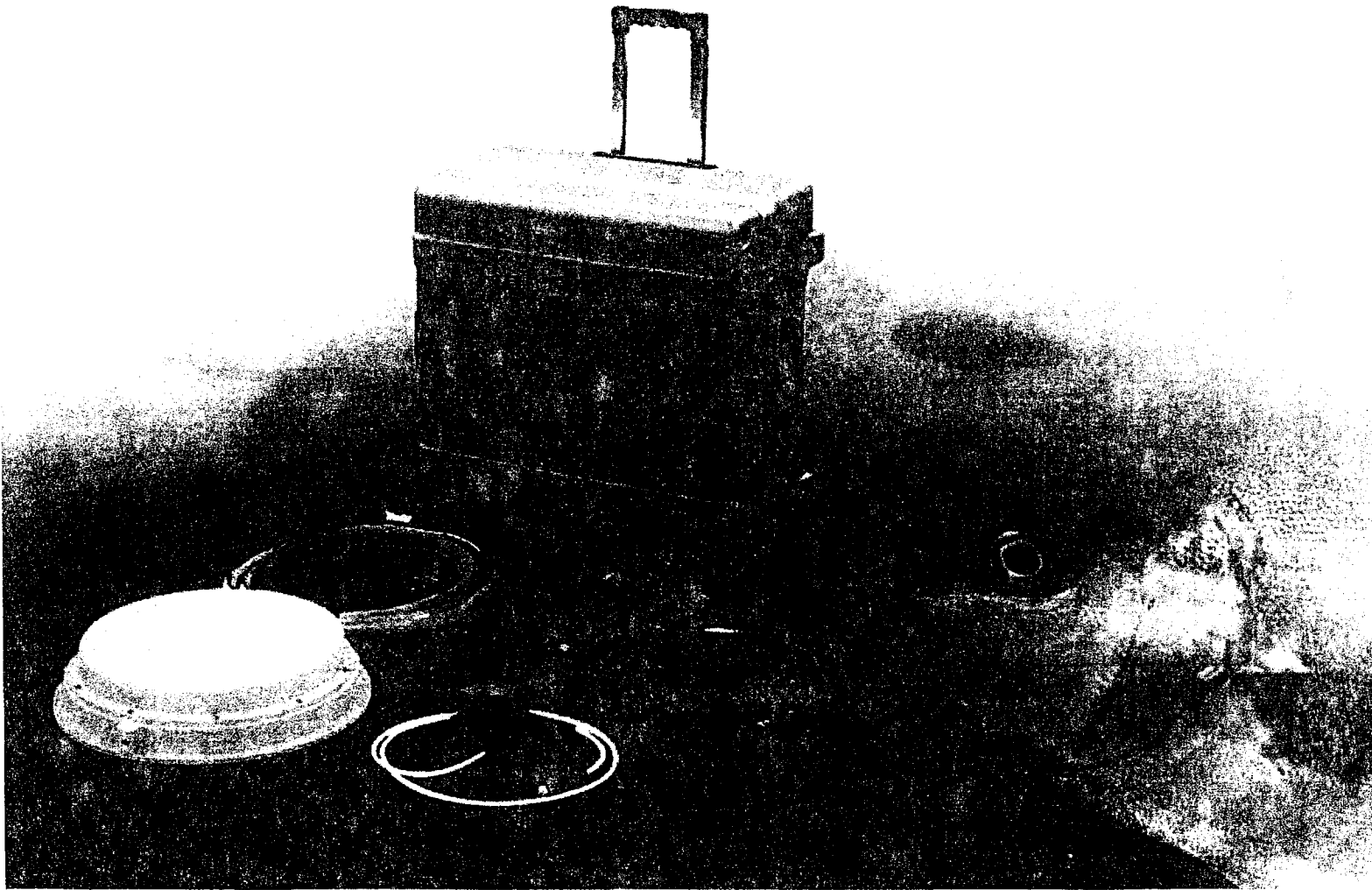
tracking and locating systems to offer a state-of-the-art direction-finding system. Phased array technology offers a universal DF antenna for existing, as well as future cellular standards.

The DF antenna array incorporates magnetic mounts for ease of installation on the roof of a tracking vehicle and offers a low profile for reduced visibility. User-friendly software, developed for the Windows® operating system, enables intuitive control of the AmberJack system and its companion receiver from a single interface. Once a target is engaged, information on the direction to the target is dynamically updated for display on the PC.



Operations Supported

- Locating mobile phones and base stations
- Tracking mobile phones



AmberJack®

Direction-Finding System



Features

- Determines direction of arrival and received signal strength of a targeted mobile phone's transmission
- Determines direction of arrival and received signal strength of a targeted base station's transmission
- Provides real-time display of direction to the target
- Low power and portable
- User-friendly Graphical User Interface (GUI) for the PC

Frequency Coverage

- AmberJack-X (U.S. Cellular/PCS 1900)
 - Cellular reverse: 824–849 MHz
 - Cellular forward: 869–894 MHz
 - PCS reverse: 1850–1910 MHz
 - PCS forward: 1930–1990 MHz
- AmberJack-G (EGSM 900/DCS 1800)
 - EGSM reverse: 880–915 MHz
 - EGSM forward: 925–960 MHz
 - DCS reverse: 1710–1785 MHz
 - DCS forward: 1805–1880 MHz

- AmberJack-W (Wideband)

- iDEN reverse: 806–825 MHz
- iDEN forward: 851–870 MHz
- Cellular reverse: 824–849 MHz
- Cellular forward: 869–894 MHz
- PCS reverse: 1850–1910 MHz
- PCS forward: 1930–1990 MHz
- EGSM reverse: 880–915 MHz
- EGSM forward: 925–960 MHz
- DCS reverse: 1710–1785 MHz
- DCS forward: 1805–1880 MHz
- UMTS IV reverse: 1710–1755 MHz
- UMTS IV forward: 2110–2155 MHz
- UMTS I reverse: 1920–1980 MHz
- UMTS I forward: 2110–2170 MHz

External Control

- Laptop PC (Windows® XP Professional)

Power source

- 12 Vdc at 0.5 A

Physical Characteristics

- Size: D = 17", H = 4.2"
- Weight: <14 lbs

Required Accessories (sold separately)

Gossamer with PC Controller, StingRay system, StingRay II, or KingFish with PC Controller

Optional Accessories

Harpoon™ for DF range extension

Catalog Part Number

- AJ-X (AmberJack-X)
- AJ-G (AmberJack-G)
- AJ-W (AmberJack-W)

Authorized Federal Supply Service Information Technology Schedule

- SIN: 132-8 Purchase of Equipment
- SIN: 132-12 Maintenance, Repair Services and Repair Parts/Spare Parts

GSA Contract Number: GS-35F-0293J

General Services Administration Federal Supply Service products and ordering information in this Authorized FSS Information Technology Schedule Pricelist are also available on the GSA Advantage! System. Agencies can browse GSA Advantage! by accessing the GSA's home page via the Internet at www.gsa.gov.



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