MILITARY SPECIFICATION

VIDEO DISC FOR MAPPING, CHARTING AND GEODESY (MC&G)

This amendment forms a part of MIL-V-89300, dated 22 February 1991, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 5

* Add as new line 3.1.5.1f. (3a):

(3a) Copyright notice (See 3.4)

PAGE 16

* Add as new section 3.4:

3.4 Copyright note. DMA products may be copyrighted in the name of the U.S. Government in foreign countries that are signatories to the Universal Copyright Convention. To claim this protection, each video disc product shall be labelled with the following copyright notice, as shown on the applicable style sheets of Appendix B:

© COPYRIGHT (YEAR) BY THE UNITED STATES GOVERNMENT - 8 pt. Caps.


The attached insertable replacement pages listed below are replacements for stipulated pages. When new pages have been entered in the document, insert the amendment as the cover sheet to the specification.

<table>
<thead>
<tr>
<th>Replacement page</th>
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<td>35</td>
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AMSC N/A

DISTRIBUTION STATEMENT A. Approved for public release; distribution unlimited.
Add as a new index line between Coordinates and Coverage Graphics:

Copyright Note .................................................. 3.4 16

NOTE: The margins of this amendment are marked with asterisks to indicate where changes (additions, modifications, corrections, deletions) from the previous issue were made. This was done as a convenience only and the government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

Custodian: DMA - MP

Review activities:
Army - PO
Air Force - 09
Navy - NO

Preparing activity: DMA - MP
(project MCGT-0102)
Base maps provided as source material in video disc source packages will vary, depending upon suitability of sources. If 1146 Series sheets are used, the following standards shall be followed:

**BASE MAP:**
- Land Area Background: White.
- Open Water Area: Light Gray shall be equivalent to DoD-MC6G Standard Printing Color #58600 at a 12% Screen. All Map Symbols, Type, and Line Work: Color shall be equivalent to a Gray DoD-MC6G #58400 at a 49% Screen; all map elements shall be legible on the video monitor screen; drng pat. shown;
- Map Projection: Equi-Rectangular; intenl. boundaries delin.; cap. & maj. cities shown;
- Map Scale: Equivalent to section of DMA 1146 Map Series at 1:7,000,000 displayed on video screen.

**COVERAGE AREA:** Yellow Color shall be readily visible on final image frame; DoD-MC6G Standard Printing Color #57875 equivalent with a semi-transparent appearance allowing line work, type, and map symbols to remain visible underneath.

**FIGURE 3.** Coverage Graphic Showing Large Scale Maps of Cities and Ports (Appears on Video Disc in Color).
FIGURE 2. Front of Single-Sided Disk.
FIGURE 3. Front of Double-Sided Disc.

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STORE in a cool dry atmosphere. The disc should not be exposed to extreme heat or direct sunlight.

Recommended temperature range: 50° - 80°F
Recommended humidity range: 20% - 70%

- It is recommended that discs be stored vertically with no more than 5° pitch in either direction.
- If discs are stored horizontally it is recommended that they be stacked no more than 10 - 12 discs high.
- If disc appears to need cleaning due to intensive handling, clean the surface using a commercially available glass cleaner or a plastic polish that contains anti-static and dust repellents.

FIGURE 6. Back of Single or Double-Sided Disc.

NOTES:
1. See 30.1.a for explanation of fonts.
VIDEO DISC
DATABASE DISKETTE
LABEL
STYLE SHEET (FOR SINGLE-SIDED DISCS)

Figure 11. Diskette Label for Single-Sided Disc.

NOTES:
1. See 30.1.a for explanation of fonts.
2. Size of label is enlarged to show clarity.

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VIDEO DISC
DATABASE DISKETTE
LABEL

STYLE SHEET (FOR DOUBLE-SIDED DISC)

UB4 CAPS (Class. Only)
UB6 CAPS (Unclass. Only)

Figure 12. Diskette Label for Double-Sided Disc.

NOTES:
1. See 30.1.a for explanation of fonts.
2. Size of label is enlarged to show clarity.
Figure 13. Computer Tape Label.

NOTES:
1. See 30.1.a for explanation of fonts.
2. Size of label is enlarged to show clarity.
10. SCOPE

10.1 Scope. These procedures provide application programs with easy-to-use, rapid, and precise indexing functions for access to video disc-stored map products. The library functions are both hardware and application independent. This appendix is a mandatory part of the specification. The information contained herein is intended for compliance.

20. APPLICABLE DOCUMENTS. This section is not applicable to this Appendix.

30. INDEXING LIBRARY FUNCTIONS

a. For optimum performance in carrying out selected library functions an 8087 or 80287 math coprocessor is recommended for IBM PC-based systems.

b. The type definition “ushort” defines a data type capable of representing values in the range of 0 to 54,000. The type definition “long” defines a data type capable of representing values in the range of 0 to $2^{31} - 1$.

(1) NAME

_M_AOCGraphic—Find Area of Coverage Graphic

(a) SYNOPSIS

result = M_AOCGraphic(lat, lng, frame)

int result;
0 = No graphic
1 = Graphic and point is on graphic
2 = Graphic and point is not on graphic

long lat; Desired latitude
long lng; Desired longitude
ushort *frame; Frame number of AOC graphic

(b) DESCRIPTION

This function determines whether there is an Area of Coverage (AOC) graphic whose smallest scale is larger than the current map scale. If there is an AOC graphic, then the graphic is selected. If the desired point appears on the graphic, then the frame returned is the frame for the smallest field of view on which the point appears. If the point is not on the graphic, then the largest field of view for the graphic is selected.