

MIL-STD-1697(BC)  
24 February 1978

MILITARY STANDARD  
TAPE, ONE-HALF INCH VIDEO  
CASSETTE BROADCAST FORMAT



5820

MIL-STD-1697(BC)

## FOREWORD

The purpose of this standard is to establish criteria and provide an approved specification for one-half inch video tape cassette broadcast equipment (industrial type) having a video referenced capstan servo drive, to be used on new and existing AFRT ships and shore activities.

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DEPARTMENT OF THE NAVY  
NAVY BROADCASTING SERVICE  
WASHINGTON, D.C.

APPROVED ONE-HALF INCH VIDEO TAPE CASSETTE BROADCASTING FORMAT  
LIMITED COORDINATION STANDARD.

1. This limited coordination Military Standard is approved for use by the Navy Broadcasting Service, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.
2. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to:

Navy Broadcasting Service (OP-007C)

Washington, D.C. 20350

by using the self addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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1. SCOPE AND APPLICATION

1.1 SCOPE. This standard provides one-half inch broadcast standard video tape specification for use on new and existing Navy American Forces Radio and Television affiliated ships and shore based American Forces Television stations.

1.2 APPLICATION. This standard applies to all Navy AFRT and supporting activities that have a requirement for industrial quality, video cassette equipment.

2. REFERENCED DOCUMENTS. NA

3. DEFINITIONS. None

4. GENERAL REQUIREMENTS. One-half inch video tape equipment, both playback and record shall meet the general requirements as listed below:

1/2 inch tape cassette

1 hours (BETA) time format

1.57 IPS tape speed

120v 50/60 HZ

5. DETAILED REQUIREMENTS. One-half inch video tape equipment, both playback and record shall meet the detailed requirements as listed below:

Tape head - rotary, two-head helical scanning

Drive - video referenced, capstan-servo drive

Video Input - 1 volt (P-P) 75 OHMS

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Video Output - 1 volt (P-P) 75 OHMS

Video Track Pitch - (length) 58.5 mm

Video Information Width - 10.62 mm

Control Track Width - .6 mm

Audio Track Width - 1.05 mm

Chroma Hetrodyne Frequency - 688 KHZ

6. APPENDIX. NA

Preparing Activity:  
Navy - BC  
(Project 5820-N705)

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1 OCT 76

Replaces edition of 1 Jan 72 which may be used.

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