

**SPECIFICATION FOR
VIDEO EQUIPMENT**

(This specification is released for procurement purposes until revised or rescinded.)

SCOPE

This specification covers design and performance requirements for various types of video equipment, including closed circuit television equipment and educational television receivers.

I. CLASSIFICATION

The equipment covered by this specification is classified as follows:

A. Flat Panel Color TV –

LCD - Color: 26" - 42"

B. Color TV –

Consumer Grade - Color: 13" - 36"

**C. DVD Players and Recorder/Players
Media Formats - DVD (as specified in the bid)**

**E. DVD Players and Recorder/Players with VCR Combinations
Media Formats - DVD (as specified in the bid), VCR (VHS and S-VHS)**

**F. TV/DVD Combinations
Media Formats - DVD (as specified in the bid),**

G. Video Camcorders - Camcorders are grouped by the recording media for video storage as described below:

Flash Memory Camcorders – Digital camcorders typically record to removable built-in flash memory and allow random access for editing. Camcorders are solid state without mechanical discs or tapes and allow random access of video for editing.

DVD Camcorders – Digital camcorders record video to miniature DVD discs which are compatibility to DVD players.

Hard Drive and - Digital camcorders record to a built-in hard drive and allow random access of video for editing.

Mini DV Camcorders - Digital camcorders record videos to Mini-DV tapes.

Low Resolution Flash Memory Camcorder - Compact camcorders record to built-in or removable memory and facilitate simple Internet download and distribution.

II. APPLICABLE STANDARDS

The following documents of issue in effect on the date of the invitation for bids shall form a part of this specification:

EIA Standards and Specifications
Electronic Industries Association (EIA)
2001 Eye Street, N.W.
Washington, DC 20006

NEC Standards
National Electric Code (NEC)
60 Batterymarch Street
Boston, MA 02110

UL Listings
Underwriters' Laboratories, Inc. (UL)
Publications Stock
333 Pfingsten Road
Northbrook, IL 60062

FCC Rules and Regulations
Federal Communications Commission (FCC)
Washington, DC 20554

III. REQUIREMENTS

A. Information Required With Bid Proposal

Each bidder should submit with his bid two copies each of information sheets, illustrations, and published specifications on all equipment offered. All data submitted should be clearly identified. Failure to provide sufficient literature for a complete review of compliance with bid specifications may be considered as sufficient grounds for rejection of bid proposal.

B. General Requirements

1. All Electrical Equipment

- A) Television/video equipment shall be capable of operating with an ac line voltage of 105 to 130 volts, 60 Hz, except for battery-operated equipment. The power supply is to be either circuit breaker protected or fused.
- B) Television/video equipment shall comply with all applicable safety standards of Underwriter's Laboratories, Inc. (UL) and with all U.S. government regulations. In lieu of the UL Listing Mark, the ETL Listing Mark or the Seal of a third party independent testing laboratory acceptable to the N.C. Department of Insurance is acceptable.

2. Television Electronics

Construction - The television receiver/monitors shall be of the table type model and shall be mounted within a cabinet of sturdy construction. Receiver/monitors accepted under this specification shall be 100% solid state construction with a built-in automatic degausser.

Receiver – All receivers shall be compatible with American standard television signals, EIA standard (525 lines, 60 fields) and NTSC color video standards. Models are required to provide analog NTSC and digital ATSC (8VSB) tuners as specified in the Invitation For Bids.

Controls - The primary operation controls should be located on the front or side of the television or peripheral device. Front panel controls and wireless remote include power, volume, channel, and menu access functionality. Color, fine-tuning and specialty functions are also provided through the on screen menu access.

Audio – TV should have a minimum full rated audio output of 1.5 watts RMS or as specified in the bid.

Antenna/Cable Input - It is desired that the television receiver/monitor have a 75-ohm RF input for VHF and UHF.

3. Signal Connections – May consist of the following, as specified in the bid.
- A) 75-ohm RF (radio frequency) input for VHF and UHF NTSC video signals carried in a coaxial-shielded cable and terminates in an F type connector.
 - B) Composite Video – Input is a single analog video signal that is carried in a signal line that terminates in a RCA type connector.
 - C) Audio – Right and left channels, analog audio signals that terminate in a RCA type connector.
 - D) S Video – An analog video signal that carries the video data as two separate signals for brightness and color. Cable terminates in a 4 pin mini-DINN (cylindrical) connector.
 - E) Component Video - An analog video signal to bypass your TV's tuner, comb filter and NTSC tuner. Its three base components Y (luminance), Cr (red - brightness) and Cb (blue - brightness) are delivered separately to the TV via three cables, which increases color resolution and eliminates noise and crosstalk between colors.
 - F) DVI – Digital video signal connection to pass up-converted video from commercial DVDs to a compatible HD capable TV.
 - G) HDMI – Digital video and audio signal connection to pass up-converted video from commercial DVDs to a compatible HD capable TV.
 - H) Universal Serial Bus (USB) - Digital computer bus connection for interface to computers (PCs and Apple computers) to digital video and digital audio devices.
 - I) Firewire (IEEE1394) - A 4-pin connection digital signal cable for high-speed transfer of data or video signals.

IV. SERVICE, PARTS AND MANUALS

One operation manual, including all relevant set-ups and operating instructions, should be supplied with each piece of equipment.

V. WARRANTY

Vendor shall guarantee that the television/video equipment and accessories are free from defects in design and construction and agrees to replace without cost during the period of 12 months from date of delivery. Warranty shall cover materials and labor.

VI. ACCEPTANCE EVALUATION AND QUALITY ASSURANCE

All equipment proposed must be in compliance with the requirements of this specification in order to qualify for award consideration. The Division of Purchase and Contract may inspect at least one unit of each model being contemplated for acceptance for compliance with this specification prior to any award.

VII. DELIVERY AND PAYMENT

Delivery and payment for video equipment under this specification should be in accordance with the terms and conditions of the Invitation For Bids. The contractor shall be responsible for any packing, packages, or protection required ensuring delivery in an undamaged condition.

All equipment should be furnished with individual shipping cartons, suitable for reshipment.

VIII. ORDERING DATA

Purchasers should exercise any desired option offered herein and should specify the following in the invitation for bids:

1. Title, number, and date of this specification
2. Product classification
3. Types of tuners required and screen resolution for flat panel TVs.
4. Additional product specifications as needed.
5. Warranty

*****End of Document*****