

26 April 2005

85.28 Monitors and projectors, not incorporating television reception apparatus; reception apparatus for television, whether or not incorporating radio-broadcast receivers or sound or video recording or reproducing apparatus

- Cathode-ray tube monitors

8528.41 -- *Of a kind solely or principally used in an automatic data processing system of heading 8471.*

Cathode-ray tube monitors of a kind solely or principally used in an automatic data processing system (ADP) of heading 8471 differ from video monitors in several ways including the following:

- (1) Display units of automatic data processing machines are capable of accepting a signal from the central processing unit of an automatic data processing machine and are therefore not able to reproduce a colour image from a composite video signal whose waveform conforms to a broadcast standard (NTSC, SECAM, PAL, etc.). They are fitted with connectors characteristic of data processing systems (e.g. DVI and/or SUB-D connectors) and do not have an audio circuit. *(so it is only capable to mute the sound and/or to adjust the volume and to have no more than two speakers)*. They are controlled by special adaptors (e.g. monochrome or graphics adaptors), which are integrated in the central processing unit of the automatic data processing machine.
- (2) These display units are characterized by low electromagnetic field emissions. Their display pitch size starts at 0.41 mm for medium resolution and gets smaller as the resolution increases.
- (3) In order to accommodate the presentation of small yet well defined images, display units of this subheading utilize smaller dot (pixel) sizes and greater convergence standards than those applicable to video monitors and television receivers of heading 8528. (Convergence is the ability of the electron gun(s) to exit a single spot on the face of the cathode-ray tube without disturbing any of the adjoining spots).
- (4) In these display units, the video frequency (bandwidth) which is the measurement determining how many dots can be transmitted per second to form the image, is generally 15 MHz or greater. Whereas, in the case of video monitors of heading 8528, the bandwidth is generally no greater than 6 MHz. The horizontal scanning frequency of these display units varies according to the
- (5) standards for various display modes, generally 15 kHz to over 155 kHz. Many are capable of multiple horizontal scanning frequencies. The horizontal scanning frequency of the video monitors of heading 8528 is fixed, usually 15.6 or 15.7 kHz depending on the applicable television standard. Moreover, the display units of automatic data processing machines do not operate in conformity with national or international broadcast frequency standards for public broadcasting or with frequency standards for closed-circuit television.

- (6) Display units covered by this subheading frequently incorporate tilt and swivel adjusting mechanisms, glare-free surfaces, flicker free display, and other ergonomic design characteristics to facilitate prolonged periods of viewing at close proximity to the unit.

CRT monitors that do not meet all the above criteria but are capable of accepting a signal only from the central processing unit of an automatic data processing machine are also included in this subheading.

8528.49 -- Other

Video monitors which are displays connected directly to the video camera or recorder by means of wires, so that all the radio-frequency circuits are eliminated. They are used by television companies or for closed-circuit television (airports, railway stations, steel plants, hospitals, etc.). These apparatus consist essentially of devices, which can generate a point of light and display it on a screen synchronously with the source signals. They incorporate one or more video amplifiers with which the intensity of the point can be varied. They can, moreover, have separate input for red (R), green (G) and blue (B), or be coded in accordance with a particular standard (NTSC, SECAM, PAL, etc.). For the reception of coded signals, the monitor must be equipped with a decoding device covering (the separation of) the R, G, and B signals.

- Other Monitor

8528.51 -- *Of a kind solely or principally used in an automatic data processing system of heading 8471.*

The displays of this subheading use LCD, OLED, PLASMA or any other non-cathode ray tube display technology.

LCD and OLED Flat panel monitors of a kind solely or principally used in an automatic data processing system of heading 8471 differ from video monitors in several ways including the following:

- (1) Display units covered by this heading frequently incorporate tilt and swivel adjusting mechanisms, a dot pitch less than 0.3mm and other ergonomic design characteristics to facilitate prolonged periods of viewing at close proximity.
- (2) The ADP displays comply with dedicated ADP video signal standards (VGA, SVGA etc).
- (3) Not equipped with connections for "Slot In" modules. Slot In modules create the possibility to easily transform an ADP display to a video monitor or television reception apparatus with all the applicable functionality.
- (4) Not capable of displaying standard video signals (HDTV, NTSC, SECAM, PAL, etc.) or encrypted standard video signals (e.g. HDCP)
- (5) The ADP display does not have an audio circuit, so it is only capable to mute the sound and/or to adjust the volume and has no more than two speakers.
- (6) An ADP monitor does not have a programme up / down button.
- (7) The ADP display has one or more of the following criteria:
 - a) an aspect ratio of 4:3 or 5:4
 - b) resolution above 2.08 megapixels.

PLASMA monitors: Industry has not yet been able to conclude on the PLASMA monitors and we request an opportunity to come back to the Commission shortly.

Flat panel monitors that do not meet all the above criteria but are capable of accepting a signal only from the central processing unit of an automatic data processing machine are also included in this subheading.

8528.59 – Other

Including video monitors capable of displaying standard video signals (HDTV, NTSC, SECAM, PAL, etc) and/or encrypted standard video signals (e.g. HDCP) and/or the possibility to be connected to a video camera or recorder.

- Projectors:

There are two types of projectors, front projectors and rear projectors:

In a front projector system the screen and the light projector are separate. This system is usually a transmissive projection system and light passes through the image forming display panel and is then projected onto the screen.

In a rear projector the screen is located in the product itself. In this type of product the light goes via the projection display panel and is then projected onto the screen.

8528.61 -- of a kind solely of principally used in an automatic data processing system of heading 84.71.

Projectors of this subheading have the following characteristics:

1. The ADP projector has an aspect ratio of 4:3 or 5:4 (=non-wide screen).
2. Not capable of displaying standard video signals (HDTV, NTSC, SECAM, PAL, etc.) or encrypted standard video signals Not equipped with connections for “Slot In” modules. Slot In modules create the possibility to easily transform an ADP projector to a video projector or television reception apparatus with all the applicable functionality.
3. ADP projectors comply with dedicated ADP video signal standards (VGA, SGA etc).

8528.69 – Other

This subheading includes amongst others video projectors, which enable the image normally reproduced on the screen of a video receiver to be projected onto a large screen. These include CRT or flat panel based displays, e.g. digital mirror devices (DMD), digital light processing (DLP), liquid crystal displays (LCD), etc.

- Reception apparatus for television, whether or not incorporating radio broadcast receivers or sound or video recording or reproducing apparatus:

Television receivers have the ability to tune and video decode.

Television receivers of the kind used in the home (table modules, consoles, wall attached, etc). They include LCD and Plasma televisions.

8528.71 – Not designed to incorporate a video display or screen

Video tuners, intended to be used with or incorporated in, e.g., video recording or reproducing apparatus or video monitors. These tuners convert high-frequency television signals into signals usable by video recording or reproducing apparatus or video monitors. However, devices which simply isolate high-frequency television signals (sometimes called video tuners) are to be classified as parts in heading 8529.

Receivers of television broadcasts. These apparatus, which do not include a display device (cathode-ray tube, LCD etc.) are similar to video tuners in that they serve to receive signals and to convert these to a signal suitable for display on a video monitor. They may incorporate a module capable of producing a standard television broadcast signal for outputting to the aerial connection of a television receiver. These receivers may also incorporate a connection to the internet.

8528.72 -- *Other colour*

8528.73 – *Other black and white or other monochrome*

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