

SONY®

BID SPECIFICATION FOR COMMUNICATION CAMERAS

MODEL NUMBER EVI-D100

INSTRUCTIONS:

REMOVE THIS COVER PAGE AND ADD TO REQUESTS FOR QUOTATION AND PROPOSALS. THE OBJECTIVE OF THIS BID SPECIFICATION IS TO ASSIST YOU IN CLEARLY SPECIFYING THE SONY PRODUCT IDENTIFIED ABOVE, AND ENSURING THAT THE BUYER IS WELL INFORMED OF THE HIGH STANDARD OF PERFORMANCE THAT IS TO BE EXPECTED OF A SONY PRODUCT. THE INFORMATION IN THIS DOCUMENT IS CURRENT AS OF JANUARY 2000. PRODUCT SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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1.0 General Information

The purpose of this information is to provide the specification for a product whose primary purpose is the acquisition of motion images to the NTSC video format.

This reproduction of this information is to be accomplished via a color CCD imaging pickup device. This document provides the minimum specifications for this device.

The performance comparison of cameras is not only technical in nature, but is also subjective to the user, when compared in the final imaging application. It is recommended that devices meeting the requirements of this specification be compared in the user's application and environment, if possible.

2.0 Description

This product shall be classified as a color camera with integrated pan / tilt / zoom capabilities. This device shall be directly compatible with NTSC video signal processing and display devices, without the use of external devices to provide this compatibility.

This device shall employ the use of a .25-inch Super HAD CCD for optimum acquisition of high-resolution images.

This device shall employ a motorized pan / tilt zoom design that employs direct drive motors and gear-less assemblies to provide quiet operation.

3.0 Source Compatibility / Suitability for Application

This device shall be directly compatible with the NTSC 3.58 video signal type, both in composite and Y/C (S-Video) formats.

4.0 User Interface / Controllability Information

Control of this device shall be accomplished through one of the following methods:

Wireless infrared remote control

Serial control jack for control by external control systems

Serial control jack for control by computer

Serial control jack for control by specific videoconferencing systems

Serial control out jack for daisy chained control of additional camera(s) for single serial port requirements without the need for an RS-232 buffer

The wireless remote control shall accommodate infrared wireless operation. A compatible infrared extender shall be available from other device manufacturers for operation of the device wirelessly in environments requiring greater than 30 feet of remote operation from the imaging device.

The serial control jack shall employ the use of a standardized device control protocol that is commonly accepted and understood by control systems manufacturers. This control jack shall accept and transmit bi-directional serial commands that provide full control over the device, and provide acknowledgement to the control system of the received command. This jack shall accept commands from any RS-232c capable 3rd party control system, a PC operating proprietary software, or specific videoconferencing systems designed to communicate with the specified imaging device. The necessary cable shall be available from the supplying manufacturer, or from 3rd party resources.

The serial control jack out shall employ the use of the same standardized device control protocol that is used on the input connection. This control jack shall provide for operation and control over additional imaging devices, or other compatible devices from the supplying manufacturer that rely on the same interface. Each device shall be independently addressable over the bi-directional serial connection.

The following device functions shall be available for control:

Power On / Off

Optical Zoom

Digital Zoom

Manual Focus

Auto Focus High Reaction / Low Reaction / Off

Manual White Balance

Auto White Balance Auto Tracking / Indoor / Outdoor

Manual Shutter / Iris / Gain

Auto Shutter / Iris / Gain

Edge Enhancement

Back Light Compensation

Special Picture Effects

Special Digital Effects

Image Reversal

Image Freeze

Position Presets

Position Memory Backup

5.0 Performance Specifications

This device shall employ the use of a .25-inch Super HAD color CCD as an imaging device. The imaging device shall employ a resolution of 768 x 494 effective pixels.

This device shall include a standard direct drive motorized pan / tilt / zoom assembly for quiet operation. The integrated lens shall have a 10x optical zoom range (extended to 40x with digital processing). The minimum object distance shall be no greater than 3.94 inches when in the wide-angle zoom position and no greater than 23.62 inches when in the telephoto zoom position. The lens shall have built-in capabilities of a 65 degree wide angle field of view.

This device shall operate with 3.5 lux to 100,000 lux of illumination. Minimum recommended operation shall be no less than 250 lux, and optimal performance shall be achieved with 2000 lux.

This device shall have a minimum video resolution of 470 TV lines.

This device shall offer up to 6 pan / tilt / zoom presets, with the ability to store those presets using internal battery backup to preserve in the event of power failure. Each preset shall also be capable of storing focus, exposure and white balance information.

This device shall switch to power saving mode when there is no use for a specified period of time when enabled by the user.

This device shall offer special picture effects including image reversal, still field memory, pastel image, negative / positive image reversal and solarize modes.

This device shall offer special digital effects including background still image, image flash, luminance only image, and trail image modes.

This device shall emulate the control and functionality of legacy imaging devices offered by the supplying manufacturer when enabled by the user.

6.0 Dimensional Information

This device shall have maximum dimensions of 4.75 inches high by 4.5 inches wide and 5.25 inches deep when in the default pan and tilt position.

This device shall not weigh more than 30 ounces.

7.0 Connectivity Information

This device shall provide for connection of 2 downstream processing or display devices simultaneously, without employing the use of an external distribution device. These connections shall include the following:

Composite Video on an RCA (Phono) Connector
Y/C Video on a 4 Pin DIN Connector

8.0 Power Requirements

This device shall accept power at 12 VDC, with a DC range of 10.8 to 13 VDC. An AC adapter shall be included that provides power from a 100-120 VAC power source.

This device shall consume no more than 13.2 watts at 12 VDC.

This device shall emit no more than 45.07 BTU.

Power to this device shall be supplied via a detachable standard AC adapter that is readily available for replacement from local suppliers.

9.0 Warranty Information

This device shall carry a 1-year manufacturer's warranty. Authorized servicing dealers of the devices' manufacturer shall perform warranty depot service.