SONY

BID SPECIFICATION
FOR
POWERED MIXER / SWITCHER

MODEL NUMBER
SRP-X700P

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 JUNE 2002. 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 signal distribution of audio, video and / or computer graphics information to audio speakers, video or graphics displays or other processing devices.

This distribution of these signals is to be accomplished via a rack mountable signal processing device. This document provides the minimum specifications for this device.

2.0 Description

This product shall be classified as an audio and video signal processing device. This device shall be directly compatible with microphone and line level audio sources, video and computer sources, without the use of external devices to provide this compatibility.

This device shall employ the use of digital signal processing and control to ensure maximum flexibility and performance in the system environment.

Encased in a durable metal casing, this device shall employ a shape that allows for rack mounting in a 19” EIA standard rack, using the included rack mount capability. The unit shall occupy no more than 3 EIA rack units.

3.0 Source Compatibility / Suitability for Application

This device shall be directly compatible with the following audio sources.

Balanced / Unbalanced microphone sources (Phantom power on or off)
Balanced / Unbalanced line level sources

This device shall be compatible with the following video and computer sources.

NTSC Video (Composite and Y/C)
PAL Video (Composite and Y/C)
PAL-M Video (Composite and Y/C)
PAL-N Video (Composite and Y/C)
SECAM Video (Composite)
Modified NTSC 4.43 (Composite)
Component Video (50 and 60 Hz)
480P (60Hz)
575P (50Hz)
720P (60Hz)
1035I (60 Hz)

1080I (50 and 60 Hz)
VGA Computer Graphics (Modes 1, 2 and 3, 60 - 85 Hz)
VESA 800x600 Computer Graphics (56 - 85 Hz)
VESA 1024 x 768 Computer Graphics (43 – 85 Hz)
VESA 1152 x 864 Computer Graphics (70 – 75 Hz)
SUN 1152 x 900 Computer Graphics (65 – 76 Hz)
VESA 1280 x 1024 Computer Graphics (43 – 60 Hz)
Mac 13” Computer Graphics
Mac 16” Computer Graphics

4.0 User Interface / Controllability Information

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

Front panel control
Serial control jack for control by external control systems
Advanced serial control jack for control by external control systems
Parallel (Contact closure) control jack for control by external control systems
USB control jacks for control by computer

All of these control methods shall be standard to the device.

In addition, this device shall be able to control other source and display devices. This shall be accomplished through one or more of the following methods.

Serial control jacks for control of source devices
Serial control jack for control of projector or display
Advanced serial control jack for control of projector or display

All of these control methods shall also be standard to the device.

The front panel control panel shall allow the operator manual control over setup and configuration of the device. All functions available for control shall be directly accessible on individual controls, and metering of various audio signals shall be possible from independent LED’s.

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 unidirectional serial commands that provide full control over the device.

The following device functions shall be available for control using this method.

Pass through for any compatible projector or display device from projector or display device remote from supplying manufacturer

The advanced 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.

The parallel (contact closure) 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 commands based on the state of specific contacts, when shorted to ground. This method shall provide limited control over the device, and provide acknowledgement to the control system of the received command.

The following device functions shall be available for control using this method.

Muting
Scene recall
Volume adjustment
Input selection (priority over-ride)
Input state (priority over-ride)
Power / off of connected projector or display
Power status of connected projector or display
Pass-through control of serial connected source devices
Over-limit indicator on / off
Scene recall on / off

The USB control jacks shall employ the use of a standardized device control protocol that is commonly accepted and understood by computer 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. These jacks shall be accessible both on the front and back of the device.

The serial control output jacks shall employ the use of a standardized device control protocol that is commonly accepted and understood by control systems manufacturers. This control jack shall send unidirectional serial commands that provide limited control over the controlled source device. The controllable source devices shall include those with a compatible control input from the supplying manufacturer.

The following device functions shall be available for control using this method.

Play
Stop
Pause

Fast Forward
Record
Previous Track
Next Track

The serial control output 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 transmit uni-directional serial commands that provide full control over the projector or display. The controllable projectors or displays shall include those with a compatible control input from the supplying manufacturer.

The following device functions shall be available for control using this method.

Power On / Standby
Input selection

The advanced serial control output 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 projector or display, and provide acknowledgement to the control system of the received command. The controllable projectors or displays shall include those with a compatible control input from the supplying manufacturer.

The following device functions shall be available for control using this method.

Power On / Standby
Input selection

5.0 Performance Specifications

This device shall fully support all video color systems using pass-though capability.

The maximum video bandwidth shall be at least 10MHz. The maximum RGB bandwidth shall be at least 150MHz. The device shall be capable of passing a resolution of at least 1280x1024 pixels at 60Hz refresh.

This device shall support audio signals within the frequency range of 20Hz to 20,000Hz.

This device shall include a built-in stereo audio amplifier that is capable of producing 150w per channel on 8 Ohm speaker loads, 200w on 4 Ohm speaker loads and 150w when used with 70V speakers.

This device shall have a minimum audio signal to noise ratio of 94db, with less than -85db of crosstalk between adjacent audio channels.

This device shall provide +48V DC power to the microphone inputs for use with condenser type microphones. This feature shall be switchable on or off independently on each microphone input channel.

This device shall provide slots for the integration of two wireless microphone tuner modules, for use with handheld or body back style transmitters. The transmitters and modules shall be available from the supplying manufacturer as options. A UHF antenna shall also be available as an option for use with the wireless system.

6.0 Dimensional Information

This device shall have maximum cabinet dimensions of 5.25 inches high by 19 inches wide and 13.88 inches deep. This device shall fit into a standard 19-inch EIA rack, occupying no more than 3 EIA rack spaces.

This device shall not weigh more than 29 pounds.

7.0 Connectivity Information

This device shall provide for connection of multiple source devices without employing the use of an external interface. These connections shall include the following:

(4) Balanced microphone inputs on XLR 3-pin connectors
(2) Balanced microphone or line inputs on XLR 3-pin connectors
(1) Unbalanced stereo line input on RCA (Phono) connectors

(3) Composite video on BNC connectors or Y/C video on 4 Pin DIN connectors
Unbalanced stereo line inputs on an RCA (Phono) connectors
(1) Component / Analog RGB on an HD-15 (VGA) connector
Unbalanced stereo line input on an RCA (Phono) connectors
(2) Component / Analog RGB on HD-15 (VGA) connectors
Unbalanced analog 5.1 surround line inputs on RCA (Phono) connectors
This device shall provide for connection of multiple audio and video output devices without employing the use of an external interface. These connections shall include the following:

(2) Balanced line outputs on XLR 3-pin connectors
(4) Unbalanced stereo line outputs on RCA (Phono) connectors
(4) 4-16 Ohm / 70V speaker outputs on screw type binding terminals
(1) Composite video on a BNC connector
(1) Y/C video on a 4-Pin DIN connector
(1) Component / Analog RGB on (5) BNC connectors

8.0 Power Requirements

This device shall accept power at 120, 220, or 230 VAC at either 50 or 60 Hz.

This device shall consume no more than 150 watts.

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

9.0 Warranty Information

This device shall carry a 90-day labor and 1-year parts manufacturer's warranty. Authorized servicing dealers of the devices' manufacturer shall perform warranty service.