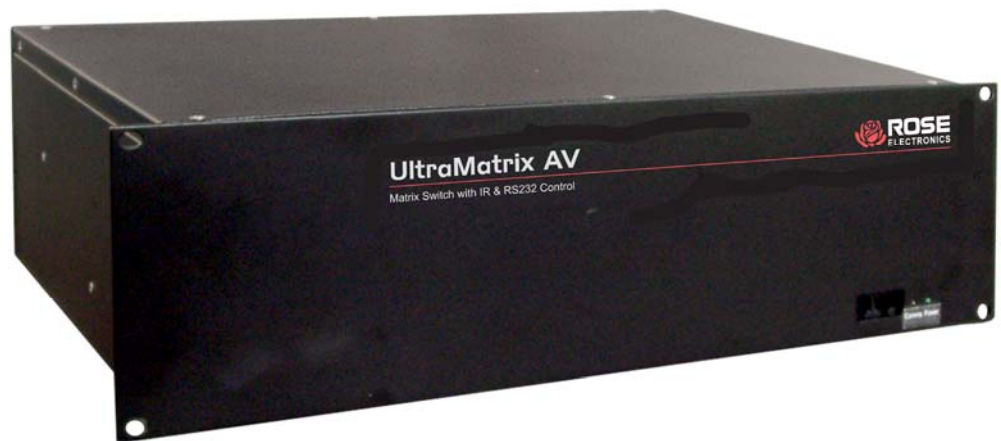


UltraMatrix AV

AUDIO/VIDEO MATRIX SWITCH

ROSE.COM

INSTALLATION AND OPERATIONS MANUAL



LIMITED WARRANTY

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INTRODUCTION

Disclaimer

While every precaution has been taken in the preparation of this manual, the manufacturer assumes no responsibility for errors or omissions. Neither does the manufacturer assume any liability for damages resulting from the use of the information contained herein. The manufacturer reserves the right to change the specifications, functions, or circuitry of the product at any time without notice.

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(See limited warranty)

Introduction

Thank you for choosing Rose Electronics® UltraMatrix AV™ for your audio and VGA video switching requirements. The UltraMatrix AV is designed especially for control rooms, audio/video presentations, security centers and many other digital media applications.

The ease of switching audio and video sources makes the UltraMatrix AV a versatile and flexible addition to your system. Up to 16 video sources and 16 audio sources can be switched to any selected output port. The audio can be automatically switched with the video source or the audio can be switched independently of the video. This is ideal for routing one sound track to several video clips. The video and audio switching can be controlled by an IR controller, the RS232 input using a PC Windows based software or individually controlled at the remote location.

The UltraMatrix AV supports resolutions up to 1600 x 1200 (bandwidth – 200 MHz) for high quality imagery and video and full stereo audio with a frequency response of 20Hz to 20 KHz.

Repetitive switching sequences can be recorded and saved in 1 of 50 macros for playback at any time.

Installation consists of two procedures:

1. Connecting the equipment
 - a. Computer videos
 - b. Audio sources
2. Installing the access software for controlling the UltraMatrix AV.

Each computer's video is connected using a HD15M to HD15M cable

Each computer's audio is connected using a standard 3.5mm stereo audio cable

The access software makes switching the selected input to an output fast and easy. Just click on the input source and then the output destination and the video and audio is instantly switched. By default, the video and audio from a selected input source are switched together to the output destination. The audio can be configured to switch independently from the video allowing you to distribute the audio to several output destinations.

Features

- Switch multiple video and audio signals to multiple monitors and stereo speakers
- Route stereo audio together with the video signal or independently to multiple outputs
- Supports all video formats (VGA / SVGA / XGA / RGBHV / SOG and others)
- Video bandwidth of 200MHz
- Supports resolutions up to 1600 x 1200
- Save and playback up to 50 different Macro routing sequences
- Click and switch intuitive software for audio and video switching
- Add additional units to increase the number of monitors (up to 64) that can be switched to

Models

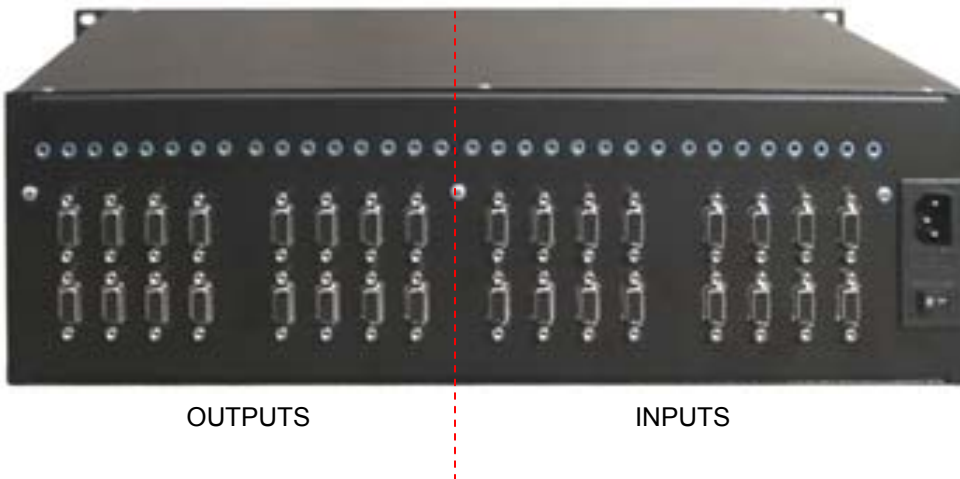
Front Panel



Indicators
Communication
Power

Connectors
RJ45 controller input
RJ45 Expansion

Rear Panel



Connectors
16- audio input
16- audio output
(Standard 3.5 mm
Stereo Mini plug)

16 video input
16 video output
(HD15F connectors)

Power / Switch

The right side of the rear panel is the video and audio inputs (16)

The left side of the rear panel is the video and audio outputs (16)

INSTALLATION

Installation (single unit)

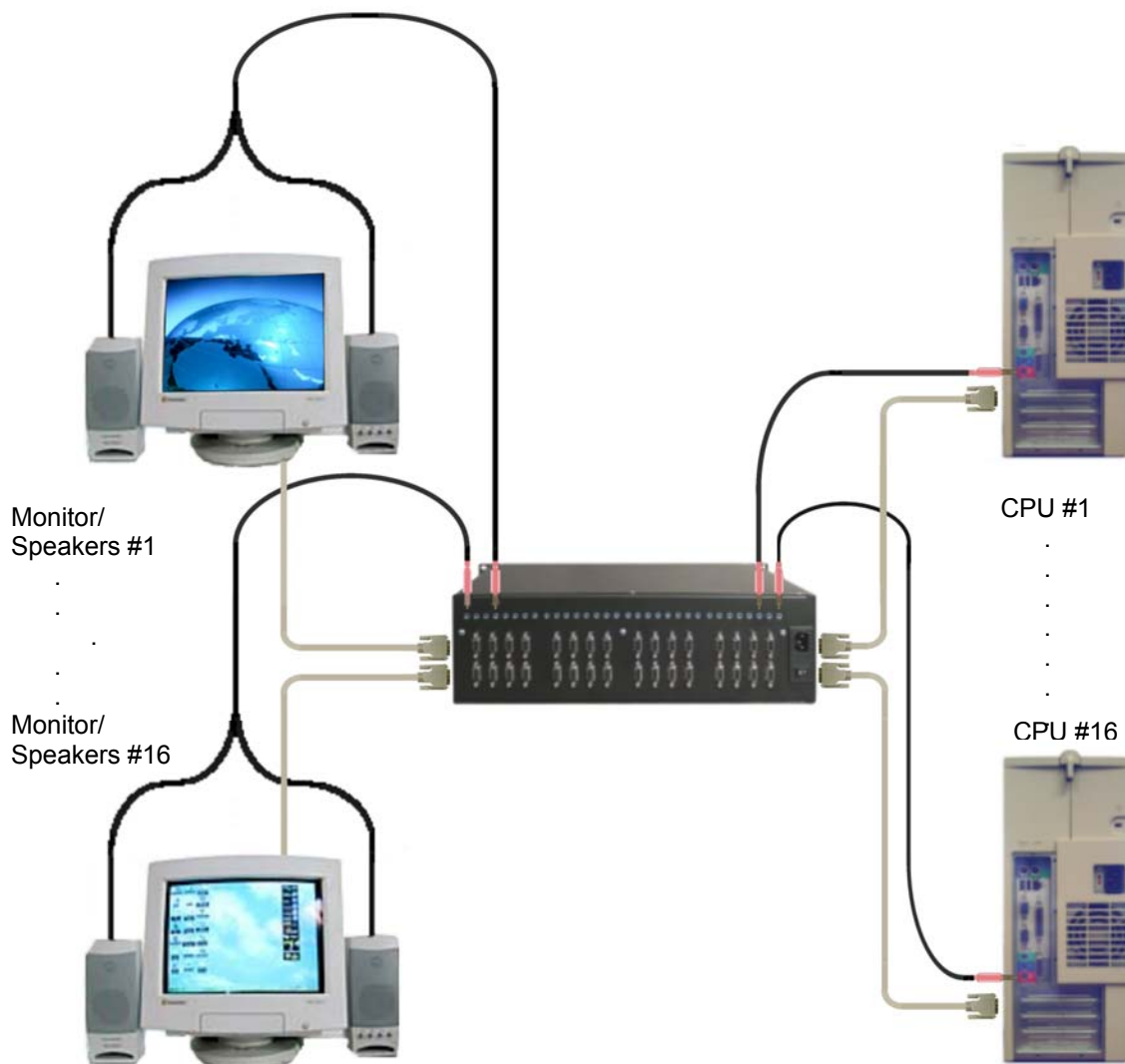


Figure 1. Typical Installation

It is a good idea to pre-plan the installation of the UltraMatrix AV and the connected equipment. It is recommended that each video input be labeled to keep track of the video source. Each video and audio input can be assigned a name for ease of identification. The name assignment is performed during the software installation.

Installation of the UltraMatrix AV consists of connecting each of the video and audio output sources to the video and audio input ports on the UltraMatrix AV. All video and audio inputs are located on the right half of the rear panel and are labeled video 1 – 16 and audio 1 – 16. Connect the video from the HD15F video output connector on computer #1 to the HD15F video input connector #1 using an HD15M to HD15M cable. Connect the audio from the audio output connector on computer #1 to the audio input connector #1 using a standard 3.5mm male to male stereo audio cable. Connect the remaining video and audio sources to the corresponding video and audio inputs. Keep the video and audio together, meaning computer #1's video and audio should be connected to video #1 and audio #1. If the audio needs to be routed to a different output port, the software can be configured to route the selected audio source to any video destination.