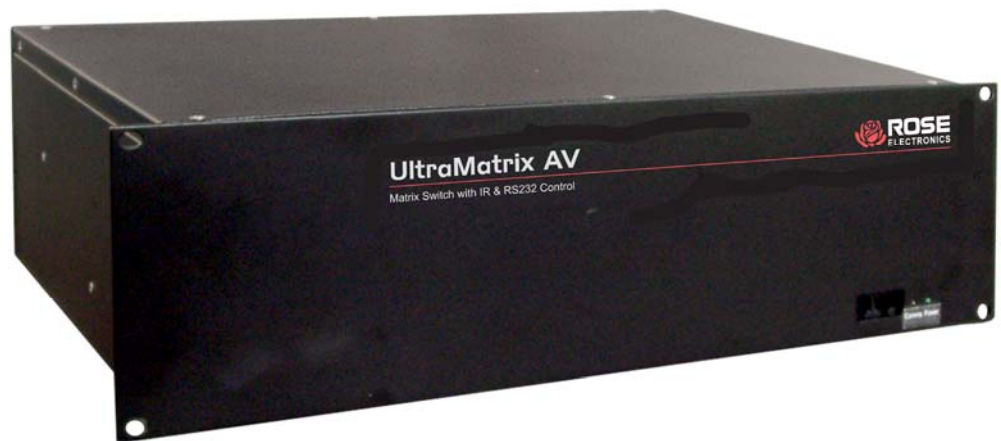


UltraMatrix AV

AUDIO/VIDEO MATRIX SWITCH

ROSE.COM

INSTALLATION AND OPERATIONS MANUAL



LIMITED WARRANTY

Rose Electronics warrants the UltraMatrix™ AV to be in good working order for one year from the date of purchase from Rose Electronics or an authorized dealer. Should this product fail to be in good working order at any time during this one-year warranty period, Rose Electronics will, at its option, repair or replace the Unit as set forth below. Repair parts and replacement units will be either reconditioned or new. All replaced parts become the property of Rose Electronics. This limited warranty does not include service to repair damage to the Unit resulting from accident, disaster, abuse, or unauthorized modification of the Unit, including static discharge and power surges.

Limited Warranty service may be obtained by delivering this unit during the one-year warranty period to Rose Electronics or an authorized repair center providing a proof of purchase date. If this Unit is delivered by mail, you agree to insure the Unit or assume the risk of loss or damage in transit, to prepay shipping charges to the warranty service location, and to use the original shipping container or its equivalent. You must call for a return authorization number first. Under no circumstances will a unit be accepted without a return authorization number. Contact an authorized repair center or Rose Electronics for further information.

ALL EXPRESS AND IMPLIED WARRANTIES FOR THIS PRODUCT INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO A PERIOD OF ONE YEAR FROM THE DATE OF PURCHASE, AND NO WARRANTIES, WHETHER EXPRESS OR IMPLIED, WILL APPLY AFTER THIS PERIOD. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

IF THIS PRODUCT IS NOT IN GOOD WORKING ORDER AS WARRANTED ABOVE, YOUR SOLE REMEDY SHALL BE REPLACEMENT OR REPAIR AS PROVIDED ABOVE. IN NO EVENT WILL ROSE ELECTRONICS BE LIABLE TO YOU FOR ANY DAMAGES INCLUDING ANY LOST PROFITS, LOST SAVINGS OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF OR THE INABILITY TO USE SUCH PRODUCT, EVEN IF ROSE ELECTRONICS OR AN AUTHORIZED DEALER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR FOR ANY CLAIM BY ANY OTHER PARTY.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR CONSUMER PRODUCTS, SO THE ABOVE MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

IBM®, AT, and PS/2 are trademarks of International Business Machines Corp.

Microsoft® and Microsoft Windows™ are registered trademarks of Microsoft Corp.

Apple, Macintosh, and ADB are trademarks of Apple Computer, Inc.

Sun is a registered trademark of Sun Microsystems Inc.

Any other trademarks mentioned in this manual are acknowledged to be the property of the trademark owner.

Copyright © Rose Electronics 2007. All rights reserved.

No part of this manual may be reproduced, stored in a retrieval system, or transcribed in any form or any means, electronic or mechanical, including photocopying and recording, without the prior written permission of Rose Electronics.

Rose Electronics Part # MAN-UMAV

Printed In the United States of America ■ Revision __.

INTRODUCTION

Contents	Page
Disclaimer.....	1
Introduction.....	1
Features.....	1
Installation (single unit)	3

Figures	Page
Figure 1. Typical Installation	3

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.

The manufacturer cannot accept liability for damages due to misuse of the product or other circumstances outside the manufacturer's control. The manufacturer will not be responsible for any loss, damage, or injury arising directly or indirectly from the use of this product.
(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

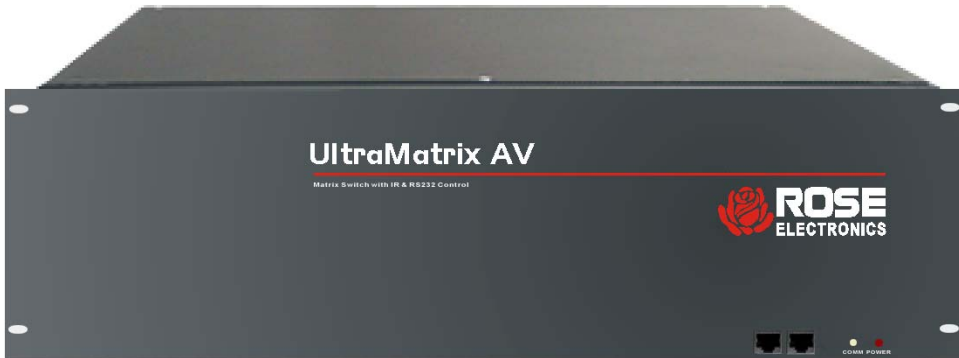
The access software makes switching the selected input to an output fast and easy. Just click on the input source and then the output destination and the video and audio is instantly switched. By default, the video and audio from a selected input source are switched together to the output destination. 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

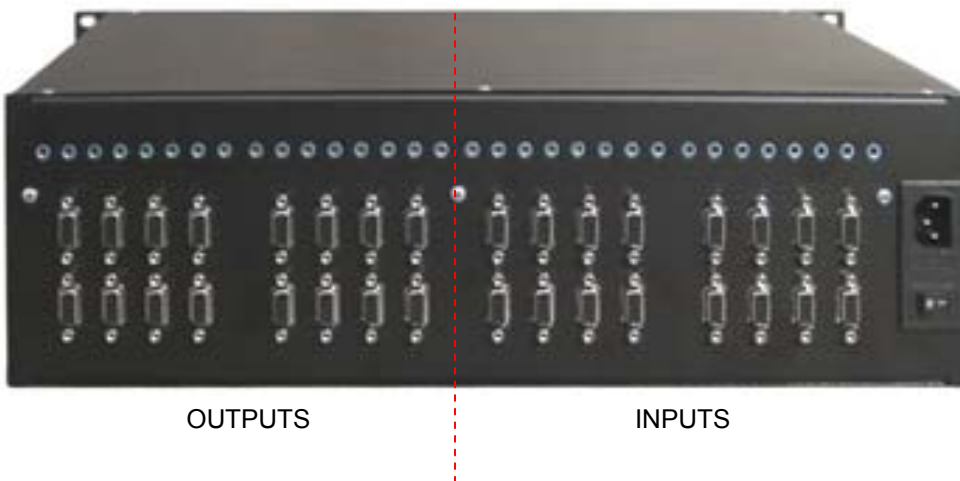
Front Panel



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)

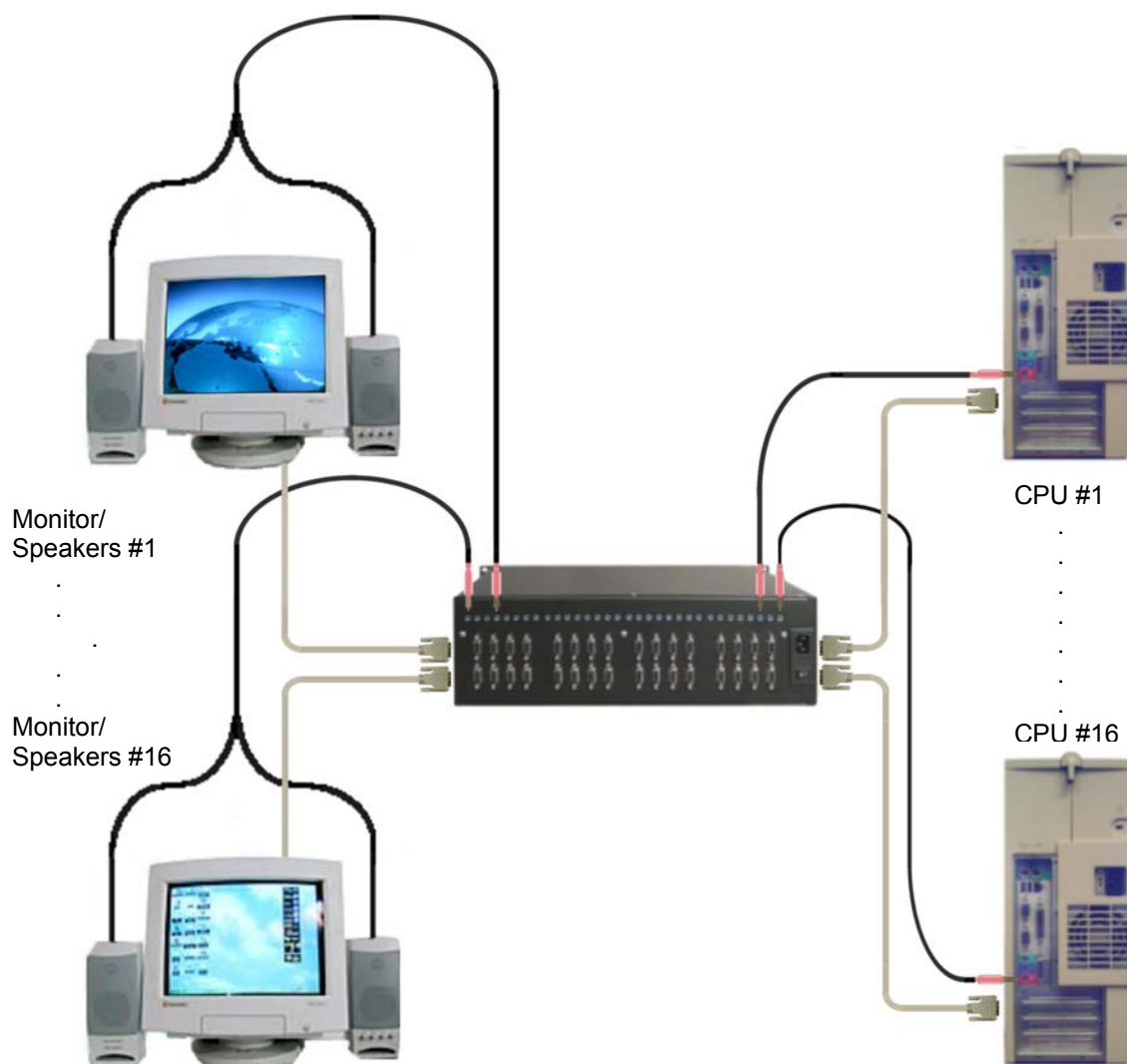


Figure 1. Typical Installation

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.