ATLONA

AT-VGA0505
5x5 VGA/YPbPr/CVBS Matrix Switcher
with Audio

User Manual

TABLE OF CONTENTS

Introduction

This AT-VGA0505 receives and amplies up to 5 VGA inputs, perfectly switches the desired input to a VGA equipped monitor or receiver. This matrix enables the broadcast of multiple computers' audio and video outputs to multiple displays. Any one of the inputs can be broadcasted to any or all of the outputs without introducing noticeable video quality distortion.

The matrix switcher supports VGA video bandwidth up to 450MHz (resolution up to 1920x1200 @60Hz) and also supports YPbPr component, S-Video, and Composite signals. The re-transmitted video quality is guaranteed to have minimal lose and the longest transmission is up to 65 meters 210 feet. This unit can easily be controlled thought IR remote, RS232 or front panel push buttons.

Features

- Broadcasts the audio and video outputs from five computers to five monitors and speakers
- Up to 5 Graphics/Video Inputs*
- Any one of the inputs can be broadcasted to any or all of the outputs
- Built-in video signal amplifier for up to 210 feet long transmission
- 3.5mm audio outputs to drive either speakers or earphones
- Push buttons, IR remote or RS232 controllable
- Supports video bandwidth up to 450 MHz
- Input connectors: (5) HD15 Female and (5) 3.5mm stereo jacks
- Output connectors: (5) HD15 Female and (5) 3.5mm stereo audio jacks
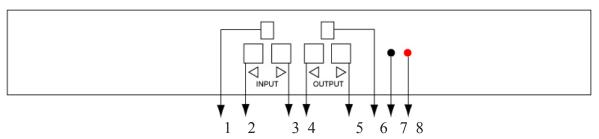- Resolution up to 1920x1200 @60Hz

- 1x AT-VGA0505
- 1x Power adapter
- 1x IR remote
- 1x User Manual
- 1x Rack mounts
- 1-10x YPbPr-to-VGA adapter (optional accessory)

Technical Specifications

- Input connector ….. 5x 15 pin VGA DSUB
- Output connector …... 5x 15 pin VGA DSUB
- Video Bandwidth …………………………………… 450MHz
- Power Supply ………………………………............... 5V DC
- Operation temperature .... 0°C~ 55°C (32°F~131°F)
- Dimensions ………… 187mm x 125mm x 43mm (7.4"x4.9"x1.7") (L x W x H)
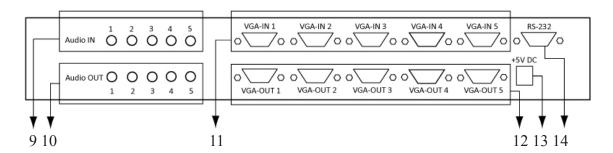- Weight …………………………………………… 890g (31.4oz)

FRONT PANEL

1. Input Indicator
2. Input Ch Increase
3. Input Ch Decrease
4. Output Ch Increase

5. Output Ch Decrease
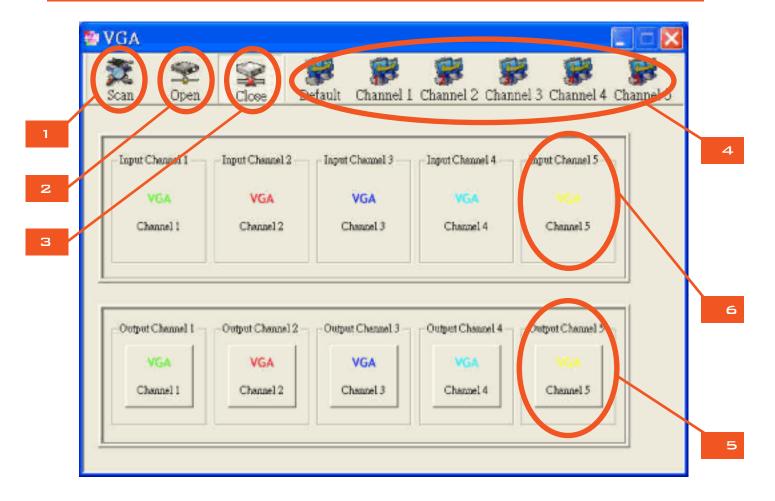6. Output Indicator
7. IR Receiver
8. Power Indicator

REAR PANEL

9. Audio Inputs
10. Audio Outputs
11. Video Inputs
12. Video Outputs
13. Power
14. RS-232 control port

1 Scan: This button will trigger the automatic search over all the available COM ports (1-255). If the matrix is detected, a message window below will show up.

Otherwise, an error message below shows up to indicate there is no legal device found. Notice that successful connection is only established if there is at least one available COM port.
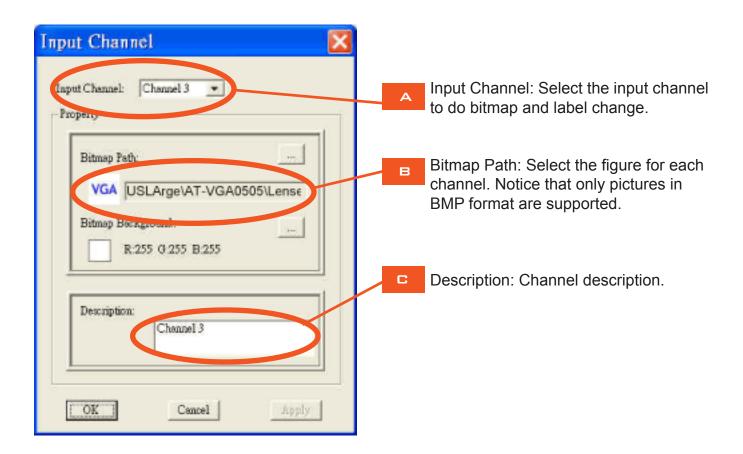
2 Open: Open the COM port after scan to establish the connection between PC and the matrix..

Message

Com Port is not available!

OK

3 Close: Release the COM port after scan.

4 Quick Setup Buttons: Provide fast setup between inputs and outputs of the matrix. "Default" button makes input 1, 2, 3, 4, 5 mapped to output 1, 2, 3, 4, 5 respectively. "Channel 1" makes all outputs see input1. The same applies to the rest of the buttons.

5 Output Channel Setup: Click on this button, a quick selection table of inputs will show up. Users can then easily select the input video for each output.

6 Input Channel Setup: The button will bring up the setup window for the inputs as below.

Input Channel

Input Channel: Channel 3

Property

Bitmap Path:

VGA USLArge\AT-VGA0505\Lense

Bitmap Background:

R:255 G:255 B:255

Description:

Channel 3

OK   Cancel   Apply

A Input Channel: Select the input channel to do bitmap and label change.

B Bitmap Path: Select the figure for each channel. Notice that only pictures in BMP format are supported.

C Description: Channel description.

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* RS-232 transmission format:

Baud rate: 9600 bps
Data bit: 8 bits
Parity: None

(a)Set command:

Command code		Response	Description
DATA	*CHECK SUM	ACK	SET
0x07 0x4d 0x41 0x90 0x55 0x05 *0x01 0xFE	0xa8	0xaa	SET AT-VGA0505 DEVICE ID
0x09 0x4d 0x41 0x90 0x55 *0x01~0xFE 0x02	0x7e	0xaa	SET AT-VGA0505 OUTPUT

(B)Status commend:

Command code		Response		Description
DATA	*CHECK SUM	GET STATUS	*CHECK SUM	STATUS
0x04 0x4d 0x4f 0x44	0xe4	0xaa 0x4d 0x41 0x90 0x55	0x1d	GET DEVICE TYPE (AT-VGA0505)
0x06 0x4d 0x41 0x90 0x55 0x04	0x7d	0xaa 0x04 *0x01~0xFE	0xaf	GET AT-VGA0505 DEVICE ID
0x08 0x4d 0x41 0x90 0x55 *0x01~0xFE 0x01	0x7a	0xaa 0x04 *0x01~0xFE	0xb0	GET AT-VGA0505 OUTPUT CHANNEL
0x06 0x4d 0x41 0x90 0x55 0x03	0x7c	0xaa *0xAC	0x1d	GET AT-VGA0505 INPUT CHANNEL STATE

(C)Appendix:
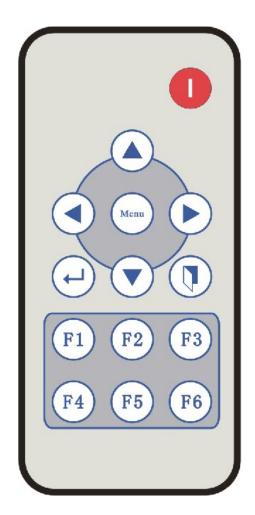
Check sum :   Check sum = (Data value sum)%256

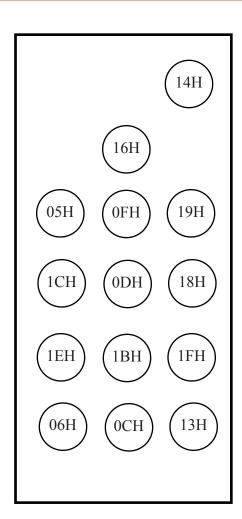0x01 ~ 0xFE: This data is device ID . The Device ID saved in the device , if the device ID of the controlled device is 0xff , the device will ignore its own ID and carry out the commanded actions.

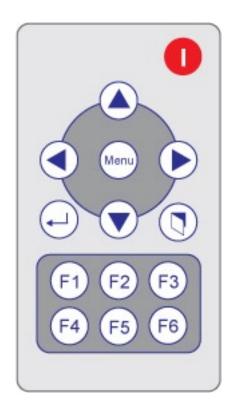0xAC :   Bit 0: Channel 8 , Bit 1: Channel 7 , Bit 2: Channel 6 , Bit 3: Channel 5 , Bit 4: Channel 4 , Bit 5: Channel 3 , Bit 6: Channel 2 , Bit 7: Channel 1 [1/0 w/wo signals]

I : Reserved	▶ : CH Decrease	F3 : All Outputs see CH3
▲ : CH Increase	↵ : Input CH Change	F4 : All Outputs see CH4
Menu : Reserved	▯ : Output CH Change	F5 : All Outputs see CH5
▼ : CH Decrease	F1 : All Outputs see CH1	F6 : CHx sees CHx
◀ : CH Increase	F2 : All Outputs see CH2	

VGA SOURCE WITH STEREO AUDIO

Safeguards

To reduce the risk of electric shock, do not expose this product to rain or moisture.

If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.

Do not modify the wall plug.
Doing so will void the warranty and safety features.

This equipment should be installed near the socket outlet and the device should be easily accesible in case it requires disconnection.

Precautions

FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Operate this product using only the included external power supply. Use of other power supplies could impair performance, damage the product or cause fires.

In the event of an electrostatic discharge, this device may automatically turn off. If this occurs, unplug the device, and plug it back in.

Protect and route power cords so they will not be stepped on or pinched by anything placed on or against them. Be especially careful of plug-ins, or cord exit points from this product.

Avoid excessive humidity, sudden temperature changes or temperature extremes.

Keep this product away from wet locations such as bathtubs, sinks, laundries, wet basements and swimming pools.

Use only accessories recommended by ATLONA to avoid fire, shock or other hazards.

Unplug the product before cleaning. Use a damp cloth for cleaning. Do not use cleaning fluid or aerosols, which could enter the unit and cause damage, fire or electrical shock. Some substances may also mar the finish of the product.

Never open or remove unit panels or make any adjustments not described in this manual. Attempting to do so could expose you to dangerous electrical shock or other hazards. It may also cause damage to your AT-VGA0505. Opening the product will void the warranty.

Do not attempt to service the unit. Instead disconnect it and contact your Authorised ATLONA reseller or contact ATLONA directly.

LIMITED ONE-YEAR WARRANTY
ATLONA by Lenexpo Electronics warrants only to the initial purchaser of this product for a period of one year from the date of purchase from an Authorized ATLONA Reseller, the product will be free of electrical and mechanical defects that materially affect the products operation as described in this users manual. Within this period, ATLONA will, at it's sole option, repair or replace any components, which fail of normal use or refund the net original price.

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