ATLONA

8x1 VGA/YPbPr/CVBS Switch
with Audio
AT-PC81A

User Manual

TABLE OF CONTENTS

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The AT-PC81A 8x1 VGA/YPbPr/CVBS Switch with Audio receives and amplifies up to 8 VGA inputs, perfectly switches the desired input to the VGA equipped monitor or receiver. The switch supports VGA video up to 350MHz at resolution up to 1920 x 1200. The re-transmitted video quality is guaranteed and the longest transmission is up to 65m (210ft). Therefore, AT-PC81A offers the most convenient and cost effective means for swift switch of high quality PC graphics and HDTV videos with crystal clear audio in the market. With equipped audio switch, AT-PC81A is ready to act as a switch with stereo audio and ideally for boardroom, showroom, and exhibition. The control of AT-PC81A is versatile and easier through the IR remote control, the push button on front panel, or the RS-232 control on rear panel.

1

- VGA/YPbPr/CVBS switch with 350MHz bandwidth

- Up to 8 graphics/video inputs

- LED indication

- Automatic detection of the VGA/YPbPr input

- Amplified video output with transmission length up to 65m (210ft)

- Multiple control by IR remote, push button, and RS-232 control

- Supports resolutions up to 1920 x 1200

PACKAGE CONTENT

- 1x AT-PC81A

- 1x power adapter

- 1x rack mount set

- 1x IR remote

- 1x User Manual

- 1-9x YPbPr-to-VGA adapter (optional accessory)

TECHNICAL SPECIFICATIONS

- Input connector.. 8x 15 pin VGA DSUB
- Output connector.. 1x 15 pin VGA DSUB
- Video Bandwidth………………………….......................... 350MHz
- Equalization (HD)... Up to 65m (210ft)
- Power Supply.. 5V DC
- Operation temperature.. 0°C~ 55°C (32°F~131°F)
- Dimensions………………………….............................. 187 x 125 x 43mm (7.4"x4.9"x1.7") (Lx W x H)
- Weight…………………………….......................………… 890g (1.96 lb)

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Front Panel
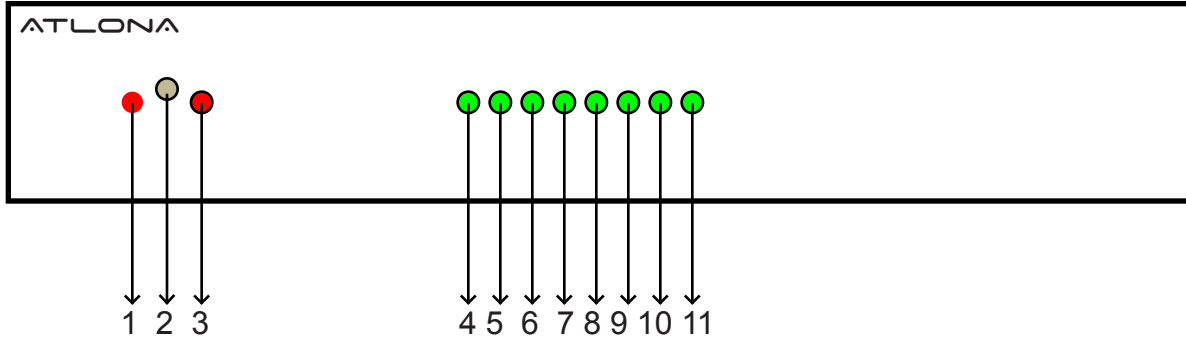
1. Push button for input switch	4. LED indicator for VGA input #1	8. LED indicator for VGA input #5
2. Infrared sensor	5. LED indicator for VGA input #2	9. LED indicator for VGA input #6
3. LED indicator for power	6. LED indicator for VGA input #3	10. LED indicator for VGA input #7
	7. LED indicator for VGA input #4	11. LED indicator for VGA input #8

Rear Panel
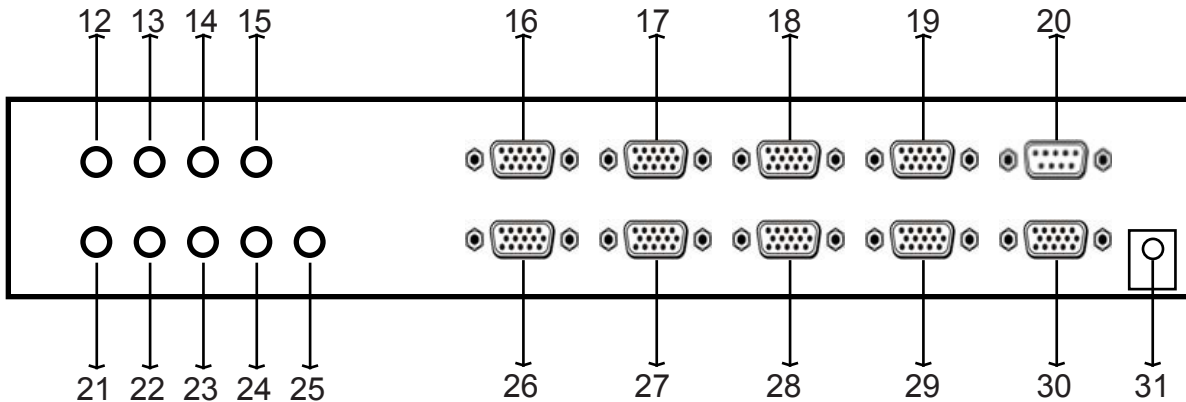
12. 3.5mm audio socket for audio source #8
13. 3.5mm audio socket for audio source #7
14. 3.5mm audio socket for audio source #6
15. 3.5mm audio socket for audio source #5
16. VGA input source #8
17. VGA input source #7
18. VGA input source #6
19. VGA input source #5
20. RS-232 control port
30. Selected VGA output
31. 5V DC power jack

21. 3.5mm audio socket for audio source #4
22. 3.5mm audio socket for audio source #3
23. 3.5mm audio socket for audio source #2
24. 3.5mm audio socket for audio source #1
25. 3.5mm audio socket for selected audio output
26. VGA input source #4
27. VGA input source #3
28. VGA input source #2
29. VGA input source #1

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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 0x53 0x57 0x30 0x08 0x05 *0x01~0xFE	0xa8	0xaa	SET AT-PC81A DEVICE ID

(B)Status commend:

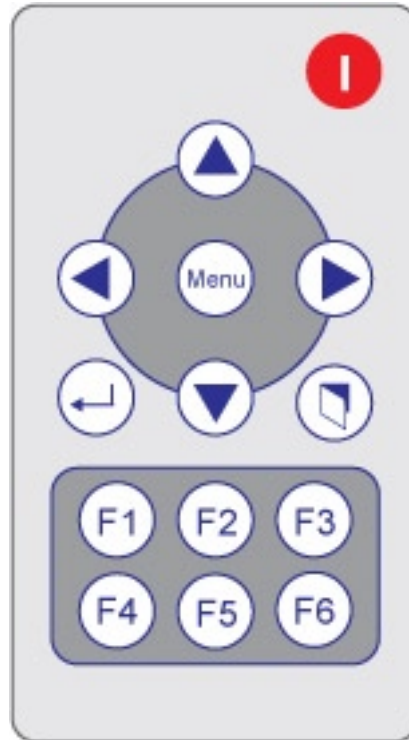| Command code		Response		Description
DATA	*CHECK SUM	GET STATUS	*CHECK SUM	STATUS
0x04 0x4d 0x4f 0x44	0xe4	0xaa 0x53 0x57 0x30 0x08	0xcd	GET DEVICE TYPE (AT-PC81A)
0x06 0x4d 0x41 0x53 0x57 0x04	0x42	0xaa 0x04 *0x01~0xFE	0xaf	GET AT-PC81A DEVICE ID
0x08 0x53 0x57 0x30 0x08 *0x01~0xFE 0x01	0x7a	0xaa 0x04 *0x01~0xFE	0xb0	GET AT-PC81A OUTPUT CHANNEL

(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]
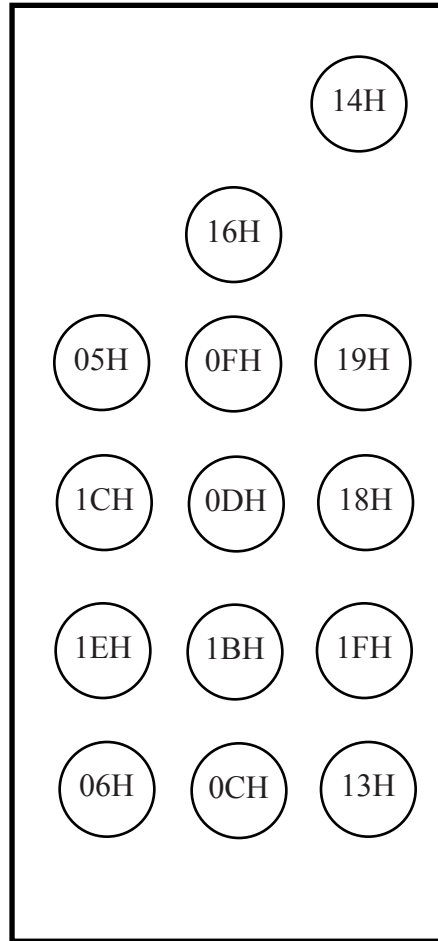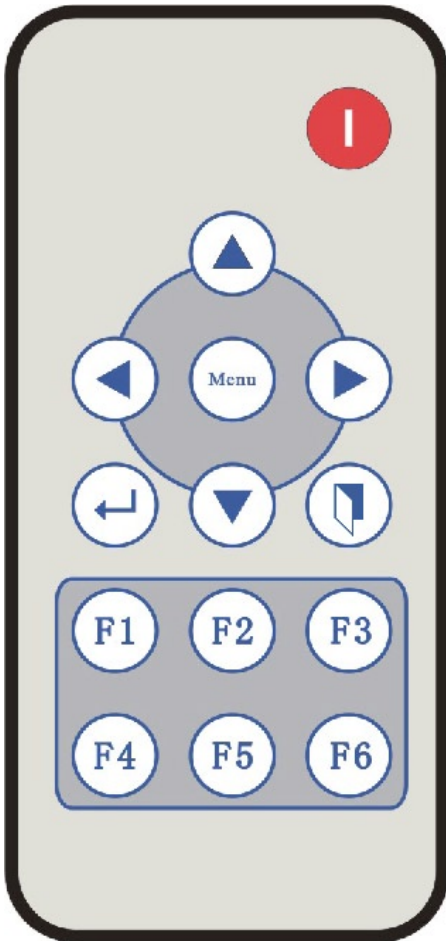
🔴 I	IDLE	▶	To the right	F3	Channel 5
▲	Reserved	↵	Channel 1	F4	Channel 6
Menu	Reserved	▯	Channel 2	F5	Channel 7
▼	Reserved	F1	Channel 3	F6	Channel 8
◀	To the left	F2	Channel 4		

Hardware Installation

1. Connect VGA/YPbPr/CVBS display/projector to the output of AT-PC81A.

2. Connect the VGA/YPbPr/CVBS source devices to the inputs of AT-PC81A.

3. Plug power adapter cable into 5V DC power jack.

4. Use IR remote or push button on the front panel to switch between inputs, or connect a computer through RS-232 port to switch the VGA/YPbPr input sources.

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-PC81A. 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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