



AT-PRO1301

MANUAL



Attention:

This manual is only for operational instruction, not for any maintenance service.
The manufacturer will make a supplement for any function or parameter revision.

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Please check Atlona website or contact local supplier for updates.
<http://www.Atlona.com>

Operation Notice:

In order to ensure the credibility use of the product and the user's safety, please comply with the following items during installation and maintenance:

The system must be earthed properly. Please do not use two blades plugs and ensure the alternating power supply ranged from 100v to 240v and from 50Hz to 60Hz.

Do not put the machine in a place of too hot or too cold.

To avoid any damage by over heat, please keep the working environment good in ventilation to radiate the heat when running the machine.

The machine should be turned off when in rainy and humid days or nonuse for a long time.

The AC power supply line should be disconnected with the power socket during the following operation.

- A. Take out or reinstall any component of the machine.
- B. Disconnect or re-connect any connector of the machine.

Please do not attempt to maintain and uncover the machine for there is a high-voltage component inside and the risk of the electric shock.

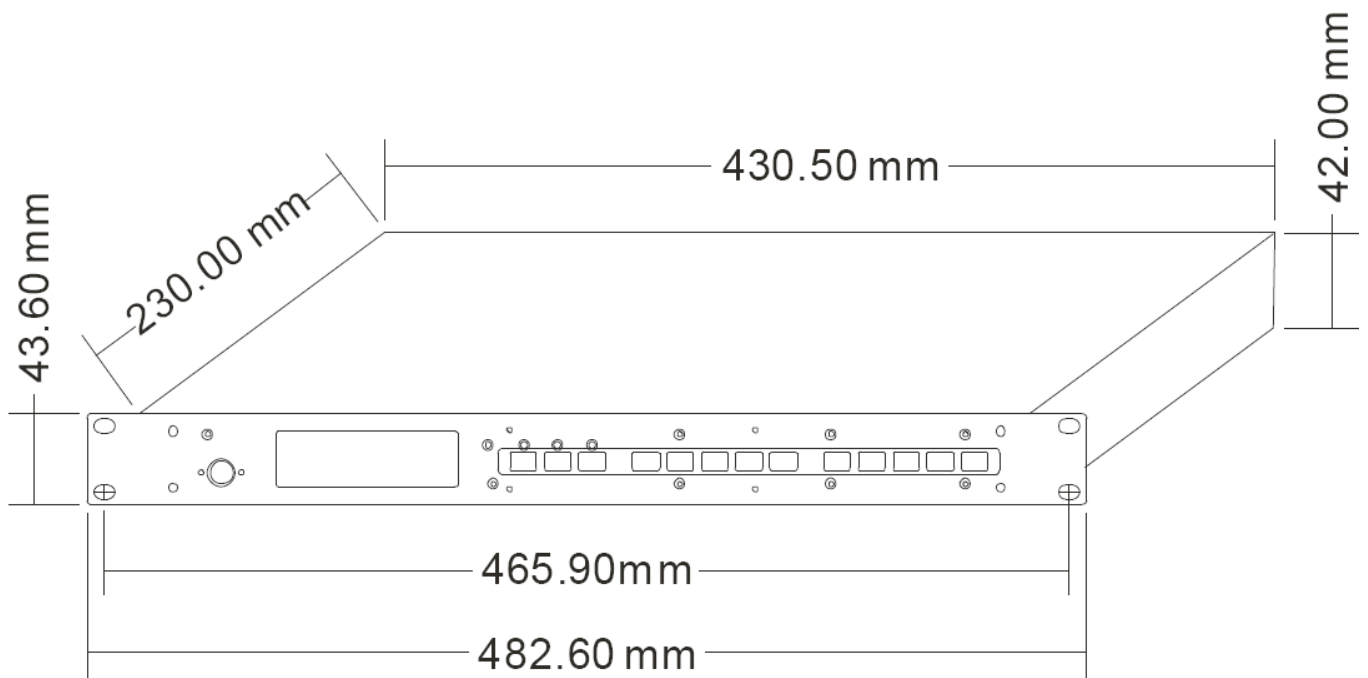
Do not splash any chemical product or liquid on or near the equipment.

Features:

The AT-PRO1301 is a scale switcher designed for multi-signal processing, signals of Composite VIDEO, S-VIDEO, VGA, and microphone can be scaled to high-resolution VGA format and switched out.

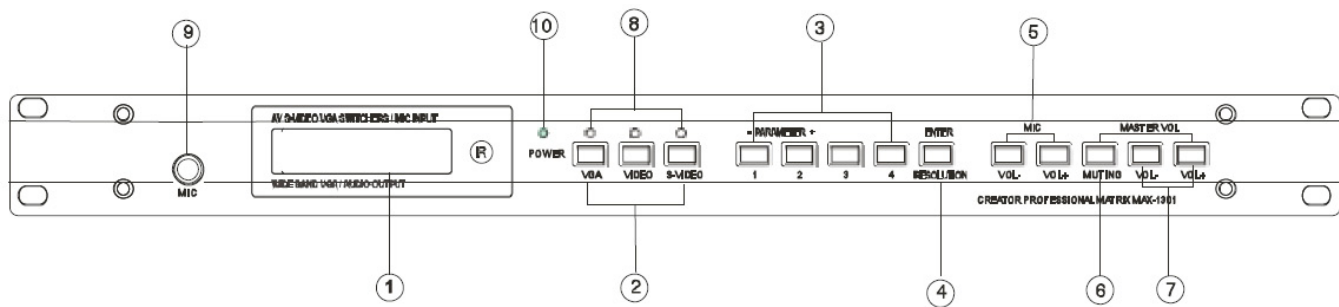
- * CVBS composite video, and S-Video can be switched to VGA signals with following Resolutions,
SVGA 800X600 @60Hz
XGA 1024X768@60Hz
SXGA 1280X1024@60Hz
- * Fit with CVBS (including NTST, PAL and SECAM) and S-VIDEO
- * 3 MIC inputs, separated volume circuit enable the connection with the master audio signal
- * 4 wide-band VGA input signals switching
- * Adjustable Brightness, contrast, saturation of VIDEO(CVBS), S-Video
- * IR remote control and serial control
- * Built-in memory card with the power-fail protection Specially dedicated to the high-resolution A/V presentation display, multimedia classrooms, command centers, conference rooms, etc.

Dimensions:



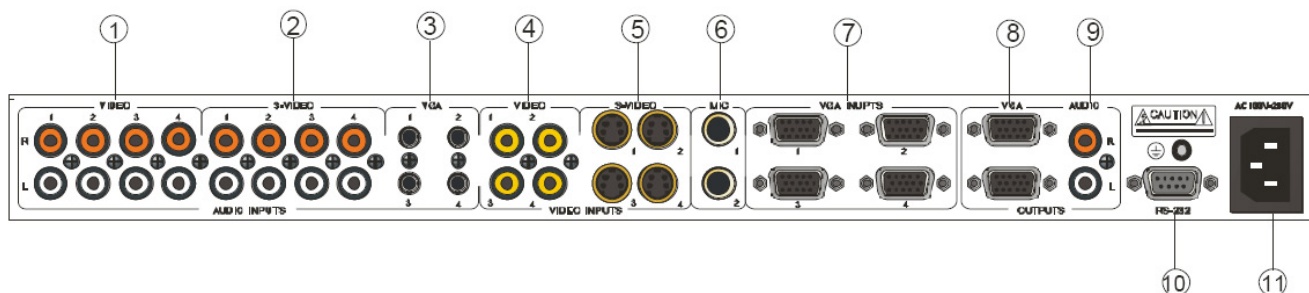
Function:

Front Panel



- 1. LCD display
- 2. Signal Source selection, To select input Signal Source (VGA, Composite Video, S-Video , etc.)
VGA Signal: Mainly for PC or NOTEBOOK
Composite Video: CVBS, such as DVD,VCD,VCR ,etc.
S-Video: super DVD, VCD or video card, etc.
- 3. Signal Indication light
- 4. Source Switching: Selecting the corresponding input channel (1,2,3,4) of current signal source. Please select before switching.
- 5. Resolution Display: Press it to enter the setting mode, press again to change the resolution, with LCD status displaying.
- 6. MIC volume adjustment, with LCD and bar indicator.
- 7. Mute/Backlight setting: 1. Mute is available for both MIC and master volume; 2. Under power-off status, pressing MUTING continuously while resuming power supply to enter back light setting mode, setting range is 0-99 minutes.
- 8. Master vol adjustment. with LCD and bar indicator.
- 9. Power status indication
- 10. IR Sensor
- 10. MIC

Rear Panel



1 VIDEO Audio input ports
4-channel audio signal inputs

2 S-VIDEO Audio input ports
4-channel S-VIDEO audio signal inputs

3VGA Audio input ports
4-channel VGA audio signal inputs

4 AV Video input ports
4-channel AV video signal inputs

5 S-VIDEO Video input ports
4-channel S-VIDEO video signal input, connecting to DVD,VCD with S
ports

6MIC inputs
2 MIC ports

7VGA Video input ports
4-channel VGA video signal inputs

8VGA signal outputs
VGA has 2 VGA signal output ports, one for monitor, the other for main outputs.

9RS232 control ports
Connecting to computer and other control system with RS232

10Power(AC100V~240V)
System power supply. Adapting to AC100V~240V 50Hz/60Hz automatically

Remote control:

Functions are the same as of the front panel.

1 Model and Channel choosing

Using remote to choose corresponding chan-
nels more
quickly

2 Resolution choosing

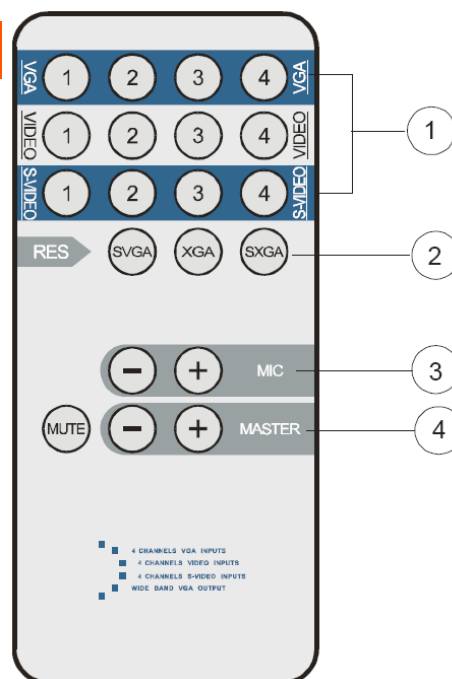
SVGA,XGA,SXGA --3 types of resolution:

SVGA 800×600 @75Hz

XGA 1024×768@60Hz

SXGA 1280×1024@60Hz

3 MIC volume adjust



RS-232 COMMANDS:

Code	Function
01*01!	VGA1 with audio switch out
02*01!	VGA2 with audio switch out
03*01!	VGA3 with audio switch out
04*01!	VGA4 with audio switch out
05*01!	S-VIDEO1 with audio switch out
06*01!	S-VIDEO2 with audio switch out
07*01!	S-VIDEO3 with audio switch out
08*01!	S-VIDEO4 with audio switch out
09*01!	COMPOSITE1 VIDEO1 with audio switch out
10*01!	COMPOSITE2 VIDEO1 with audio switch out
11*01!	COMPOSITE3 VIDEO1 with audio switch out
12*01!	COMPOSITE4 VIDEO1 with audio switch out
01\$01!	SVGA 800*600
02\$01!	XGA 1024*768 (default)
03\$01!	SXGA 1280*1024
04\$01!	MIC volume level up
05\$01!	MIC volume level down
06\$01!	Master volume level up
07\$01!	Master volume level down
08\$01!	Mute on
09\$01!	Mute off
11\$01!	restore the Video(CVBS) Brightness... to the default value
12\$01!	restore the S-Video(YC) Brightness... to the default value
xx\$02!	select the Video brightness 00--99% (0< xx <100)
xx\$03!	select the Video Contrast 00--99% (0< xx <100)
xx\$04!	select the Video Saturation 00--99% (0< xx <100)
xx\$05!	select the S-Video brightness 00--99% (0< xx <100)
xx\$06!	select the S-Video Contrast 00--99% (0< xx <100)

Code	Function
xx\$07!	select the S-Video Saturation, 00--99% (0< xx <100)
01#08!	read present state
02#08!	read present Firmware Ver.
03#08!	read system information

Description for Compsite Video:

Press Video for 3 seconds under Video mode to enter the setting mode.

function_1: 1 CV brightness, brightness adjustment, works with
Parameter +, parameter -.

function_2: 2 CV Contrast, Contrast adjustment, works with parameter+,
parameter -.

function_3: 3 CV Saturation, Saturation adjustment, works with
Parameter +, parameter -.

function_4: 4 RESTORE CVBS DEFAULT VALUE?, works with ENTER.
Resets back to default.

Description for S - Video:

Press S-Video for 3 seconds under S-Video mode to enter the setting mode.

function_1: 1 SV brightness, brightness adjustment, works with
parameter +, parameter -.

function_2: 2 SV Contrast, Contrast adjustment, works with parameter +,
parameter -.

function_3: 3 SV Saturation, Saturation adjustment, works with
parameter +, parameter -.

function_4: 4 RESTORE SV DEFAULT VALUE?, works with ENTER. Resets back to default.

model	AT-PRO1301		
specification			
Video			
Gain	0 dB		
Bandwidth	AV video:150MHz, S-video video:150MHz,VGA video:375 MHz.		
Multi-channel input :one-channel	-50dB @ 50 MHz, -45dB @ 10 MHz		
DC phase/OS	<1.28 Degree,3.58 MHz		
DC phase deviation	0.1%,3.58-4.43 MHz		
DC gain deviation	0.1 Degree, 3.58-4.43 MHz		
Switch speed	100 ns(Max)		
Signal type	VGA,S-video, composite video(CVBS)		
Video input	AV	S-Video	VGA
Connector	RCA female connector	S-Video Connector(Y-C)	15-pin HD female connector
Signal intensity	1V p-p : Y component video S-video,composite video 0.7V p-p: VGA(Computer signal) 0.3V p-p: component video S-video C		
Min/Max EL	Analog signal: -3V/+3V		
Impedance	75 Ω		
Echo lost	<-30dB@5MHz		
Level frequency response			60-200KHZ
Vertical frequency response			100Hz-200Hz
VGA Video output			
Connector	15-pin HD female connector		
Min/Max EL	-2.0V / +2.0V		
Impedance	75 Ω		
Echo lost	<-40dB@5MHz		
Direct current compensation	Max \pm 5mV		
VGA sync signal			
Signal type	RGBHV, RGBS, RGsB, RsGsBs,Composite,component,S-video		
Video type	NTSC 3.58,NTSC 4.43,PAL,SECAM		
Input EL	0.5V- 5.0V p-p,: 4.0V p-p normal		
Output EL	AGC-TTL: 5Vp-p, not terminated		
Input impedance	510 Ω		
Output impedance	75 Ω		
Max transmitting delay	level:90ns vertical:160ns		
Max up/down time	4ns		
	Plus or minus		

model	
specification	AT-PRO1301
Audio signal	
Input/output connector	8-channel RCA imbalance input,4-channel 3.5mm imbalance output
Gain	0 dB
Frequency response	20 Hz ~ 20 kHz,
Total harmonic component lost and noise	0.05% @ 1 kHz (rating voltage)
(S/N)	>8dB
Stereo separation	>80dB @ 1 kHz
(CMRR)	>75dB @: 20 Hz ~ 20 kHz
Signal type	Stereo (imbalance)
Impedance	input:>10 kΩ(balance/imbalance) output:50 Ω (imbalance), 100 Ω(balance)
Max input EL	+19.5dBu, (balance/imbalance)
Gain deviation	±0.1dB @20 Hz ~ 20 kHz
Max output EL	+19.5dBu, (balance/imbalance)
MIC	
MIC type	Moving-coil type
Input sensitivity	25mV
FR response	50Hz-16K Hz-
Connector type	Single input
Control type	
Serial control	RS-232, 9-pin female D type
Baud rate and protocol	Baud rate:9600, data bit:8, stop bit:1, non parity0
Serial control structure	2 = TX, 3 = RX, 5 = GND
Specification	
Power	100VAC ~ 240VAC, 50/60 Hz, international auto adapting power
Temperature	Deposit using temperature: -20° ~ +70°C
Humidity	Deposit using temperature:10% ~ 90%
Cover dimension	483(L)X230(W)X44mm(H)
Product weight	1.9kg
MTBF	30,000 hours
Quality warranty	Guarantee to keep it in good repair for 1 year,

Troubleshooting:

- 1) If images output with ghost, such as the projector, please check the projector's setting and or try another high quality cable.
- 2) If there is color loss and no video signal on the output, please check the input and output connections and the VGA cable.
- 3) The remote control doesn't work:
 - A. Check batteries replace if needed.
 - B. The remote is broken please contact manufacture for repair.
- 4) Unable to control the scaler by computer through its COM port, please check the COM port number and the software and make sure the COM port is in good condition.
- 5) If the output image is interfered, please make sure the system is grounded well.
- 6) If the static becomes stronger when connecting the BNC connectors, it maybe due to the incorrect grounding, please correct it otherwise it would damage the scaler.
- 10) If the scaler cannot be controlled by the buttons on the front panel, RS232 port or remote control, the scaler may have broken. Please contact the manufacture for repair/ replacement.

Warranty

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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