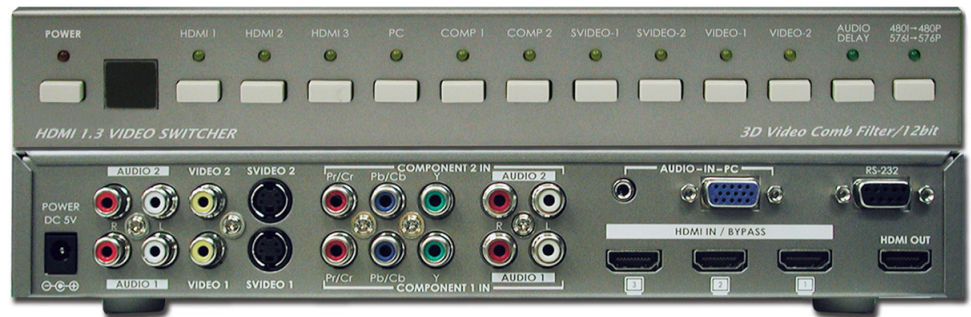


ANI-5300

PC/Video/HD to HDMI 1.3 Switcher





SAFETY INFORMATION



1. To ensure the best results from this product, please read this manual and all other documentation before operating your equipment. Retain all documentation for future reference.
2. Follow all instructions printed on unit chassis for proper operation.
3. To reduce the risk of fire, do not spill water or other liquids into or on the unit, or operate the unit while standing in liquid.
4. Make sure power outlets conform to the power requirements listed on the back of the unit. Keep unit protected from rain, water and excessive moisture.
5. Do not attempt to clean the unit with chemical solvents or aerosol cleaners, as this may damage the unit. Dust with a clean dry cloth.
6. Do not use the unit if the electrical power cord is frayed or broken. The power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
7. Do not force switched or external connections in any way. They should all connect easily, without needing to be forced.
8. Always operate the unit with the AC ground wire connected to the electrical system ground. Precautions should be taken so that the means of grounding of a piece of equipment is not defeated.
9. AC voltage must be correct and the same as that printed on the rear of the unit. Damage caused by connection to improper AC voltage is not covered by any warranty.
10. Turn power off and disconnect unit from AC current before making connections.
11. Never hold a power switch in the "ON" position.
12. This unit should be installed in a cool dry place, away from sources of excessive heat, vibration, dust, moisture and cold. Do not use the unit near stoves, heat registers, radiators, or other heat producing devices.
13. Do not block fan intake or exhaust ports. Do not operate equipment on a surface or in an environment which may impede the normal flow of air around the unit, such as a bed, rug, carpet, or completely enclosed rack. If the unit is used in an extremely dusty or smoky environment, the unit should be periodically "blown free" of foreign dust and matter.
14. To reduce the risk of electric shock, do not remove the cover. There are no user serviceable parts inside. Refer all servicing to qualified service personnel. There are no user serviceable parts inside.
15. When moving the unit, disconnect input ports first, then remove the power cable; finally, disconnect the interconnecting cables to other devices.
16. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.
17. The equipment power cord should be unplugged from the outlet when left unused for a long period of time.
18. Save the carton and packing material even if the equipment has arrived in good condition. Should you ever need to ship the unit, use only the original factory packing.
19. Service Information Equipment should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged.
 - B. Objects have fallen, or liquid has been spilled into the equipment.
 - C. The equipment has been exposed to rain
 - D. The equipment does not appear to operate normally, or exhibits a marked change in performance
 - E. The equipment has been dropped, or the enclosure damaged.

▶ CONTENTS

CONTENTS 1
 FEATURES & SPECIFICATIONS 2
 FRONT & REAL PANEL 4
 REMOTE CONTROL 5
 RS-232 REMOTE CONTROL PROTOCOL 6
 SIGNAL SPECIFICATIONS 7
 CONNECTION & INSTALLATION 8

DEAR CUSTOMER

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

INTRODUCTION

Looking for a way to watch all of your Analog/Digital devices on an HDMI display without having to constantly switch devices? Well this powerful PC/Video/HD to HDMI 1.3 Switcher gives you the ability to convert your analog and digital signals to a HDMI v1.3 output. The product is compatible with HDMI v1.3 specifications, which is cutting edge technology that defines the transfer of Deep Color (10-bit and 12-bit) video. Using the front panel or the remote control, select the desired input source and sit back and relax as your media is effortlessly displayed, then switch to another source just easily. This HDMI switcher is the smart way to handle your multiple A/V sources.

PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make sure the following items are contained in the shipping carton:

- ANI-5300 Switcher
- IR Remote Control
- Users Guide
- Power Supply: 5VDC/2.6A (US/EU standards, CE/FCC/UL certified)

SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

DISCLAIMERS

The information in this manual has been carefully checked and is believed to be accurate. We assume no responsibility for any infringements of patents or other rights of third parties which may result from its use.

We assume no responsibility for any inaccuracies that may be contained in this document. We make no commitment to update or to keep current the information contained in this document.

We reserve the right to make improvements to this document and/or product at any time and without notice.

COPYRIGHT NOTICE

No part of this document may be reproduced, transmitted, transcribed, stored in a retrieval system, or any of its part translated into any language or computer file, in any form or by any means — electronic, mechanical, magnetic, optical, chemical, manual, or otherwise — without the express written permission and consent.

© Copyright 2015. All Rights Reserved.
 Version 1.1 APR 2016

TRADEMARK ACKNOWLEDGMENTS

All products or service names mentioned in this document may be trademarks of the companies with which they are associated.

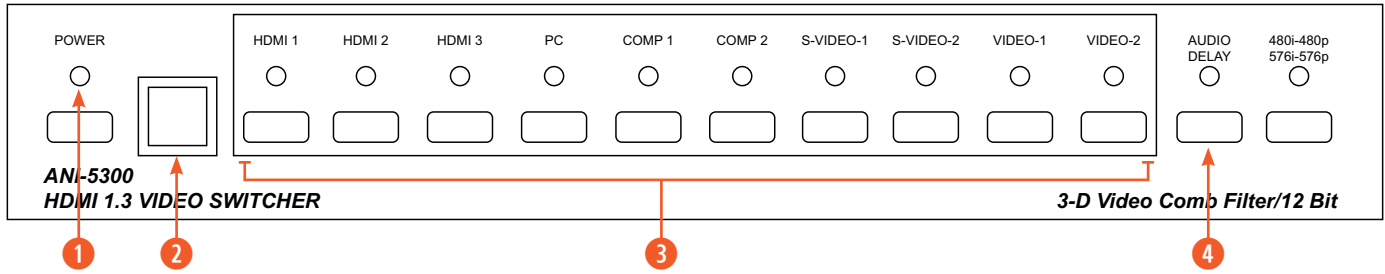
FEATURES

- HDMI 1.3, HDCP 1.1 and DVI 1.0 compliant
- Deep Color video up to 12bit, 1080p (24/60)Hz
- Supports analog/digital video/audio input and HDMI v1.3 output
- Supports a wide range of PC and HDTV resolutions from VGA to SXGA@60Hz and 480i to 1080p
- Supports 3D comb filter and 3D noise reduction (DNR)
- Simply press a button on the front panel or remote control to convert from 480i/576i to 480p/576p
- Has an audio delay for 150ms, this feature will not function when under the HDMI input
- Supports IR remote control and RS-232 control

SPECIFICATIONS

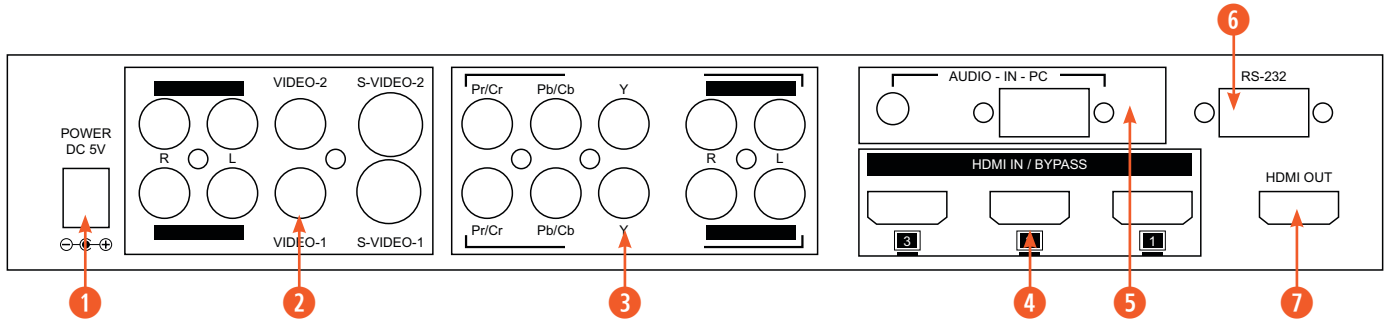
- **Frequency Bandwidth:** 2.25Gbps (single link)
- **Input Ports:**
 - 3x HDMI female ports (Type A connector)
 - 1x PC with audio jack
 - 2x Y/Pb/Pr with R/L
 - 2x CV/SV with R/L
 - 1x RS-232
- **Output Port:** 1 x HDMI female port (signal link)
- **Input Signal Specifications:**
 - **PC Resolutions:** VGA: 640x480 (60/72/75/85Hz), SVGA: 800x600 (56/60/72/75/85Hz), XGA: 1024x768 (60/70/75/85Hz), SXGA: 1280x1024 (60/75Hz), UXGA: 1600x1200 (60Hz), WUXGA: 1920x1200 (60Hz)
 - **HDTV Resolutions:** 480p: 720x480 (60Hz), 480i: 720x480 (60Hz), 576p: 720x576 (50Hz), 576i: 720x576 (50Hz), 720p: 1280x720 (50, 60Hz), 1080i: 1920x1080i (50, 60Hz), 1080p: 1920x1080p (50, 60Hz)
- **Output Signal Specifications:**
 - **PC Resolutions:** VGA: 640x480 (60/72/75/85Hz), SVGA: 800x600 (56/60/72/75/85Hz), XGA: 1024x768 (60/70/75/85Hz), SXGA: 1280x1024 (60Hz), UXGA: 1600x1200 (60Hz), WUXGA: 1920x1200 (60Hz)
 - **HDTV Resolutions:** 480p: 720x480 (60Hz), 480i: 720x480 (60Hz), 576p: 720x576 (50Hz), 576i: 720x576 (50Hz), 720p: 1280x720 (50, 60Hz), 1080i: 1920x1080i (50, 60Hz), 1080p: 1920x1080p (50, 60Hz)
- **Operating Temperature:** 32°F~104°F/0°C ~ 40°C
- **Chassis Material:** Metal
- **Silkscreen Color:** Gray
- **Dimensions (WxDxH):** 11x5.8x1.75 in (280x147x44mm)
- **Weight:** 3lb/1380g
- **Power Supply:** 5VDC/2.6A (US/EU standards, CE/FCC/UL certified)

FRONT PANEL



- 1 Power Button and Power LED Indicator: Press this button to turn the unit on and the power LED will switch on.
- 2 IR sensor.
- 3 Input Source Selection: Press the input button to switch to your desired input source, the LED will turn on to indicate which input source is selected.
- 4 Audio Delay: Press to delay audio sources for 150ms, the LED will switch on when power is on.

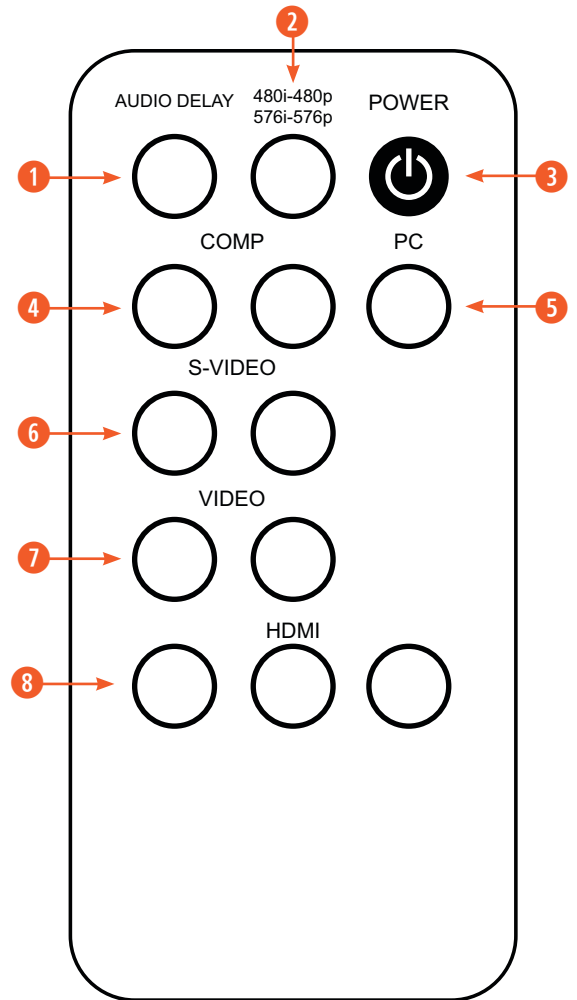
REAR PANEL



- 1 Power: Plug the 5V DC power supply into this unit and connect the adaptor to an AC outlet.
- 2 CV/SV Inputs: Connect each of the input ports to the CV/SV and R/L output ports of your source equipment such as DVD player or set-top-box. The CV1/SV1/Audio1 and CV2/SV2/Audio2 are individual loops for source equipments.
- 3 Component Inputs: Connect each of the input ports to the component and R/L output ports of your source equipments such as DVD/Blu-Ray player or set-top-box. The mponent1/Component Audio1 and Component2/Component Audio2 are individual loops for source equipments.
- 4 HDMI Inputs: Connect each of the input ports to the HDMI/DVI output ports of your source equipment such as DVD/Blu-Ray player or set-top-box.
- 5 PC Input: Connect the PC/audio input port to the PC/audio output port of your source equipment such as Laptop or PC.
- 6 RS-232: 9-pin D-Sub connector for connecting to your PC or other control console for remote control of the switcher.
- 7 HDMI Output: Connect the output port to the HDMI display.

REMOTE OPERATION

- ① Audio Delay: Press to delay audio output for 150ms.
- ② Format Selection: To switch between Interlace and Progressive format.
- ③ Power: Press the button to turn on/off the unit.
- ④ Component 1/2: Press to select Composite 1 or 2 inputs.
- ⑤ PC: Press for PC input.
- ⑥ S-Video1/2: Press to select S-Video 1 or 2 inputs.
- ⑦ Video1/2: Press to select Video 1 or 2 inputs.
- ⑧ HDMI 1/2/3: Press to select HDMI 1, 2 or 3 inputs.



RS-232 REMOTE CONTROL PROTOCOL

* The connection between this unit and the remote control with RS-232 Pin to pin cable.

Pins definition of modem cable.

SYSTEM		REMOTE CONTROLLER	
Pin	Definition	Pin	Definition
1	NC	1	NC
2	TxD	2	RxD
3	RxD	3	TxD
4	NC	4	NC
5	GND	5	GND
6	NC	6	NC
7	NC	7	NC
8	NC	8	NC
9	NC	9	NC
1:1	1250	67.5	50

* RS-232 transmission format:

Baud Rate : 9600 bps

Data Bit : 8 bits

Parity : None

Stop Bit : 1 bit

HDMI INPUT
RS-232 Transmission Format:

(a) Set Command

COMMAND CODE	RESPONSE	DESCRIPTION
S POWER 0	> POWER OFF	POWER OFF
S POWER 1	> POWER ON	POWER ON
S SOURCE 0	> SOURCE HDMI1	HDMI1 INPUT
S SOURCE 1	> SOURCE HDMI2	HDMI2 INPUT
S SOURCE 2	> SOURCE HDMI3	HDMI3 INPUT
S SOURCE 3	> SOURCE PC	PC INPUT
S SOURCE 4	> SOURCE COMP1	COMPONENT1 INPUT
S SOURCE 5	> SOURCE COMP2	COMPONENT2 INPUT
S SOURCE 6	> SOURCE SV1	SV1 INPUT
S SOURCE 7	> SOURCE SV2	SV2 INPUT
S SOURCE 8	> SOURCE CV1	CV1 INPUT
S SOURCE 9	> SOURCE CV2	CV2 INPUT
S AUDIODELAY 0	> AUDIODELAY OFF	OFF : NO DELAY
S AUDIODELAY 1	> AUDIODELAY ON	ON : DELAY 150ms
S SD_ITOP 0	> 480i/576i TO 480p/576p OFF	OFF : NO 480i/576i TO 480p/576p
S SD_ITOP 1	>480i/576i TO 480p/576p ON	ON : 480i/576i TO 480p/576p
S RESET 1	> RESET ON	RESET ACTION
R POWER	> POWER ON~OFF	SHOW POWER STATUS
R SOURCE	> SOURCE HDMI~CV	SHOW SOURCE STATUS
R AUDIODELAY	> AUDIODELAY OFF~ON	SHOW AUDIO DELAY STATUS
R SD_ITOP	>480i/576i TO 480p/576p OFF~ON	SHOW 480i/576i TO 480p/576p STATUS
R FW_VER	> FIRMWARE VERSION : Vx.xx	SHOW FIRMWARE VERSION

*All commands will be not executed unless followed with a carriage return (0x0D) and commands are case-sensitive.

*RS-232 control is set to single device only, not for use with Cascade/Bypass output's connection device.

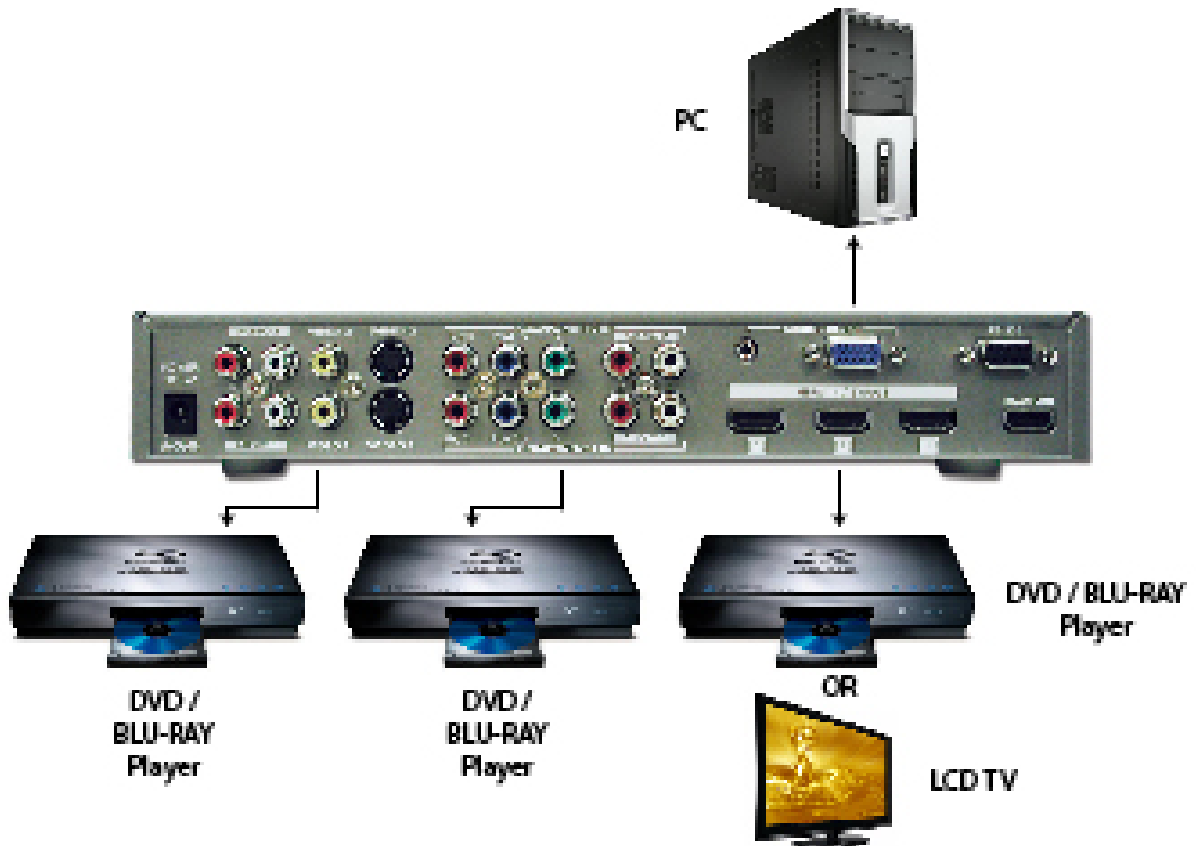
*Bold values are the default setting.

INPUT SIGNAL SPECIFICATIONS

PC RESOLUTIONS:		VERT RATE
VGA	640x480	60/72/75/85Hz
SVGA	800x600	56/60/72/75/85Hz
XGA	1024x768	60/70/75/85Hz
SXGA	1280x1024	60/75Hz
UXGA	1600x1200	60Hz
WUXGA	1920x1200	60Hz
HDTV RESOLUTIONS:		VERT RATE
480p	720x480	60Hz
480i	720x480	60Hz
576p	720x576	50Hz
576i	720x576	50Hz
720p	1280x720	50, 60Hz
1080i	1920x1080i	50, 60Hz
1080p	1920x1080p	50, 60Hz

OUTPUT SIGNAL SPECIFICATIONS

PC RESOLUTIONS:		VERT RATE
VGA	640x480	60/72/75/85Hz
SVGA	800x600	56/60/72/75/85Hz
XGA	1024x768	60/70/75/85Hz
SXGA	1280x1024	60Hz
UXGA	1600x1200	60Hz
WUXGA	1920x1200	60Hz
HDTV RESOLUTIONS:		VERT RATE
480p	720x480	60Hz
480i	720x480	60Hz
576p	720x576	50Hz
576i	720x576	50Hz
720p	1280x720	50, 60Hz
1080i	1920x1080i	50, 60Hz
1080p	1920x1080p	50, 60Hz



THIS PAGE IS INTENTIONALLY LEFT BLANK.

PLEASE READ THE FOLLOWING TERMS AND CONDITIONS CAREFULLY BEFORE USING THIS HARDWARE, COMPONENTS AND SOFTWARE PROVIDED BY, THROUGH OR UNDER A-NeuVideo, INC (COLLECTIVELY, THE "PRODUCT"). By using installing or using the Product, you unconditionally signify your agreement to these Terms and Conditions. If you do not agree to these Terms and Conditions, do not use the Product and return the Product to A-NeuVideo, Inc. at the return address set forth on the Product's packing label at your expense. A-NeuVideo, Inc. may modify these Terms and Conditions at anytime, without notice to you.

RESTRICTIONS ON USE OF THE PRODUCT

It is your responsibility to read and understand the installation and operation instructions, both verbal and in writing, provided to you with respect to the Product. You are authorized to use the Product solely in connection with such instructions. Any use of the Product not in accordance with such instructions shall void any warranty pertaining to the Product. Any and all damages that may occur in the use of the Product that is not strictly in accordance with such instructions shall be borne by you and you agree to indemnify and hold harmless A-NeuVideo, Inc. from and against any such damage.

The Product is protected by certain intellectual property rights owned by or licensed to A-NeuVideo. Any intellectual property rights pertaining to the Product are licensed to you by A-NeuVideo, Inc. and/or its affiliates, including any manufacturers or distributors of the Product (collectively, "A-NeuVideo") for your personal use only, provided that you do not change or delete any proprietary notices that may be provided with respect to the Product.

The Product is sold to you and any use of any associated intellectual property is deemed to be licensed to you by A-NeuVideo for your personal use only. A-NeuVideo does not transfer either the title or the intellectual property rights to the Product and A-NeuVideo retains full and complete title to the intellectual property rights therein. All trademarks and logos are owned by A-NeuVideo or its licensors and providers of the Product, and you may not copy or use them in any manner without the prior written consent of A-NeuVideo, which consent may be withheld at the sole discretion of A-NeuVideo.

The functionality and usability of the Product is controlled by A-NeuVideo, Inc. from its offices within the State of Texas, United States of America. A-NeuVideo makes no representation that materials pertaining to the Product are appropriate or available for use in other locations other than the shipping address you provided with respect thereto. You are advised that the Product may be subject to U.S. export controls.

DISCLAIMERS AND LIMITATION OF LIABILITY

A-NeuVideo may change or modify the Product at any time, from time to time.

THE PRODUCT IS PROVIDED "AS IS" AND WITHOUT WARRANTIES OF ANY KIND EITHER EXPRESS OR IMPLIED. A-NEUVIDEO DOES NOT WARRANT OR MAKE ANY REPRESENTATIONS REGARDING THE USE OR THE RESULTS OF THE USE OF THE PRODUCT'S CORRECTNESS, ACCURACY, RELIABILITY, OR OTHERWISE.

A-NeuVideo has no duty or policy to update any information or statements pertaining to the Product and, therefore, such information or statements should not be relied upon as being current as of the date you use the Product. Moreover, any portion of the materials pertaining to the Product may include technical inaccuracies or typographical errors. Changes may be made from time to time without notice with respect to the Product.

TO THE FULLEST EXTENT PERMISSIBLE PURSUANT TO APPLICABLE LAW, A-NEUVIDEO DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. A-NEUVIDEO DOES NOT WARRANT THE ACCURACY, COMPLETENESS OR USEFULNESS OF ANY INFORMATION WITH RESPECT TO THE PRODUCT. A-NEUVIDEO DOES NOT WARRANT THAT THE FUNCTIONS PERTAINING TO THE PRODUCT WILL BE ERROR-FREE, THAT DEFECTS WITH RESPECT TO THE PRODUCT WILL BE CORRECTED, OR THAT THE MATERIALS PERTAINING THERETO ARE FREE OF DEFECTS OR OTHER HARMFUL COMPONENTS. A-NEUVIDEO WILL USE ITS REASONABLE EFFORTS TO CORRECT ANY DEFECTS IN THE PRODUCT UPON TIMELY WRITTEN NOTICE FROM YOU NOT TO EXCEED 10 BUSINESS DAYS AFTER RECEIPT BY YOU OF THE PRODUCT, BUT YOU (AND NOT A-NEUVIDEO) ASSUME THE ENTIRE COST OF ALL NECESSARY SERVICING, REPAIR AND CORRECTION THAT WAS CAUSED BY YOU UNLESS OTHERWISE AGREED TO IN A SEPARATE WRITING BY A-NEUVIDEO.

UNDER NO CIRCUMSTANCES, INCLUDING, BUT NOT LIMITED TO, NEGLIGENCE, SHALL A-NEUVIDEO BE LIABLE FOR ANY SPECIAL OR CONSEQUENTIAL DAMAGES THAT RESULT FROM THE USE OF, OR THE INABILITY TO USE THE PRODUCT IN ACCORDANCE WITH ITS SPECIFICATIONS, EVEN IF A-NEUVIDEO OR ITS REPRESENTATIVES HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL A-NEUVIDEO'S TOTAL LIABILITY TO YOU FROM ALL DAMAGES, LOSSES, AND CAUSES OF ACTION (WHETHER IN CONTRACT, OR OTHERWISE) EXCEED THE AMOUNT YOU PAID TO A-NEUVIDEO, IF ANY, FOR THE PRODUCT.