

# ANI-8MFS

8 INPUT MULTI-FORMAT SCALER SWITCH w/ VOLUME CONTROL  
MIRRORED HDMI/VGA OUTPUT





## 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**

INTRODUCTION & CONTENTS .....1  
 FEATURES & SPECIFICATIONS.....2  
 FRONT PANEL .....3  
 BACK PANEL .....4  
 REMOTE CONTROL .....5  
 OSD MENU .....7  
 RS-232 & TELNET COMMANDS .....8  
 RS-232 PIN ASSIGNMENT .....12  
 TELNET CONTROL .....13  
 WEBGUI.....14  
 INPUT & OUTPUT RESOLUTIONS .....15  
 CONNECTION DIAGRAM .....16

**INTRODUCTION**

The ANI-8MFS is a multi input scaler has Composite Video, Component Video, PC (VGA) and HDMI inputs and can switch and scale the signal to HDMI or VGA with audio outputs. It supports HDMI output resolutions up to 1080p/WUXGA and Analog Digital Conversion (ADC) and Digital Analog Conversion (DAC) allowing a wide range of AV signals to be displayed on a HDMI or VGA display. Further, the On-screen Display (OSD), IR remote, RS-232, IP and on-panel controls make this product very versatile. This product has a 3 year warranty.

**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-8MFS Multiple Inputs to HDMI/VGA Scaler
- 15-pin D-Sub to a 3-RCA Adaptor Cable
- IR Extender Cable
- Remote Control (ANI-122)
- 5V/3A Power Adaptor
- Users Guide

**SYSTEM REQUIREMENTS**

Source equipment such as Blu-ray/DVD players or PC/Laptop and output to displays, AV Receivers or active speakers.

**APPLICATIONS**

- Analog and digital source integration
- Upscaling standard definition video for high-definition displays
- Conference centers
- Lecture halls
- Schools and universities

**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**

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## FEATURES

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- Supports switching and scaling of multiple AV inputs to HDMI or PC/HD outputs
- Supports EDID and HDCP
- Supports 3D de-interlace, noise reduction and 3D comb filter
- Supports frame rate conversion
- Supports RS-232, IP (Telnet/WebGUI) and IR controls
- Supports output timing hot keys switching
- HDMI compatible with DVI
- Supports Digital to Analog (DAC) and Analog to Digital (ADC) Audio conversion
- Supports non-HDCP signal of Apple computers

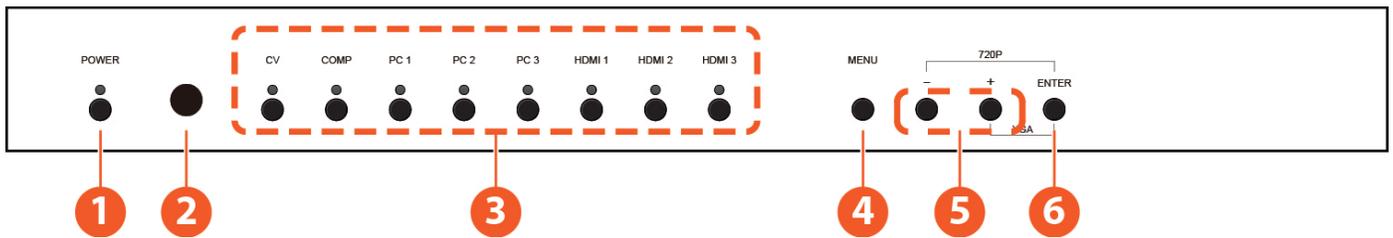
## SPECIFICATIONS

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- **Input Ports:**
  - (3)HDMI
  - (3) VGA (15-pin D-sub)
  - Component Video
  - Composite Video
  - (6) 3.5mm Stereo Audio
  - (4) RCA Stereo Audio
  - IR Extender (3.5mm)
  - RS-232 (9-pin D-sub)
  - IP Control (RJ45)
  - USB (Service)
- **Output Ports:**
  - (2) HDMI
  - VGA (15-pin D-sub)
  - Coaxial Audio
  - 3.5mm Stereo Audio
- **Input Resolution:** Up to 1080p/UXGA
- **Output Resolution:** Up to 1080p/WUXGA (RB)
- **Power Supply:** 5 V/3 A DC (US/EU standards, CE/FCC/UL certified)
- **Dimensions (WxDxH):** 17 x 7.2 x 1.9 in (432x183x47mm)
- **Weight:** 4.7lb/2140g
- **Chassis Material:** Metal
- **Silkscreen Color:** Black
- **Operating Temperature:** 0°C~40°C/32°F~104°F
- **Storage Temperature:** -20°C~60°C/-4°F~140°F
- **Relative Humidity:** 20~90%RH (non-condensing)
- **Power Consumption:** 11W

As product improvements are continuous, specifications are subject to change without notice.

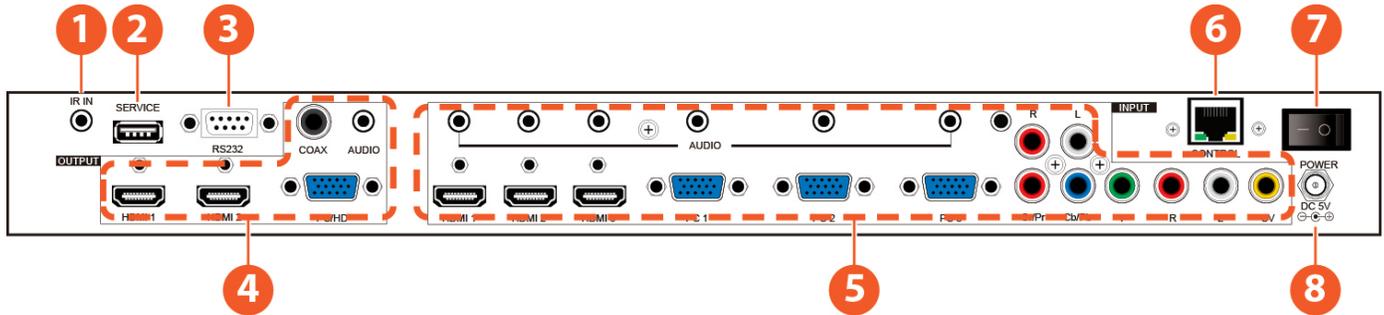
## FRONT PANEL



- ① **POWER & LED:** Press this button to switch the device on or to set it to standby mode. Once the device is connected to an active power supply and the Power Switch on the back panel is turned on, the LED will illuminate and the device will switch on automatically.
- ② **IR WINDOW:** Receives only the IR signal from the remote control included in the package.
- ③ **INPUT & LEDS:** Press these buttons to switch directly to the required source. An LED will illuminate to indicate the selected input source.
- ④ **MENU:** Press this button to enter the On-screen Display (OSD) menu.
- ⑤ **PLUS/MINUS (-/+):** Press these buttons to navigate down and up in the OSD menu.
- ⑥ **ENTER:** Press this button to confirm the selection in the OSD menu.

**NOTE:** Press this button simultaneously with the '+' (plus) button to instantly switch the output to XGA resolution or with the '-' (minus) button to instantly switch the output to 720p resolution.

BACK PANEL



**1 IR IN:** Connect the supplied IR extender to receive the IR signal from the included IR remote. Ensure that the remote is within the direct line-of-sight of the IR extender.

**2 SERVICE:** Reserved for manufacturer use only.

**3 RS-232:** Connect to a PC/Laptop or RS-232 control system to use RS-232 commands to control the device.

**4 OUTPUT:**

- 1. HDMI 1~2:** Connect to an HDMI display or AV Receiver for video and/or audio output.
- 2. PC/HD:** Connect to a monitor/display for video output. For HD (Component) output, use the supplied D-Sub 9pin to 3-RCA adaptor cable for HD resolutions from 480p~1080p.  
**NOTE:** When the selected HDMI input source signal has HDCP content the VGA/Component output will not display any image.
- 3. COAX:** Connect to an amplifier or active speakers for audio output in digital format.  
**NOTE:** When the input audio source signal is in bitstream format and the AUDIO SOURCE setting is set to AUTO in the OSD menu, the coaxial output will bypass the input audio signal including compatible surround sound formats.
- 4. AUDIO:** Connect to an amplifier or active speakers for audio output in stereo format.

**5 INPUT:**

- 1. HDMI 1~3:** Connect to HDMI sources such as Blu-ray/DVD player for both video and audio signal conversion.
- 2. PC 1~3:** Connect to a PC/Laptop source for video signal input with a 15-pin D-Sub cable.
- 3. 3.5mm MINI-JACKS:** Connect to source's L/R output with 3.5mm mini-jack for audio signal conversion.  
**NOTE:** For HDMI signals you can select in the OSD Menu whether you require audio from the HDMI (AUTO) or from the analog audio inputs (EXT)
- 4. YCbCr/YPbPr + L/R:** Connect to source equipment such as a DVD player for both video and audio signal conversion.
- 5. CV + L/R:** Connect to a composite video source such as a video/DVD player for both video and audio signal conversion.

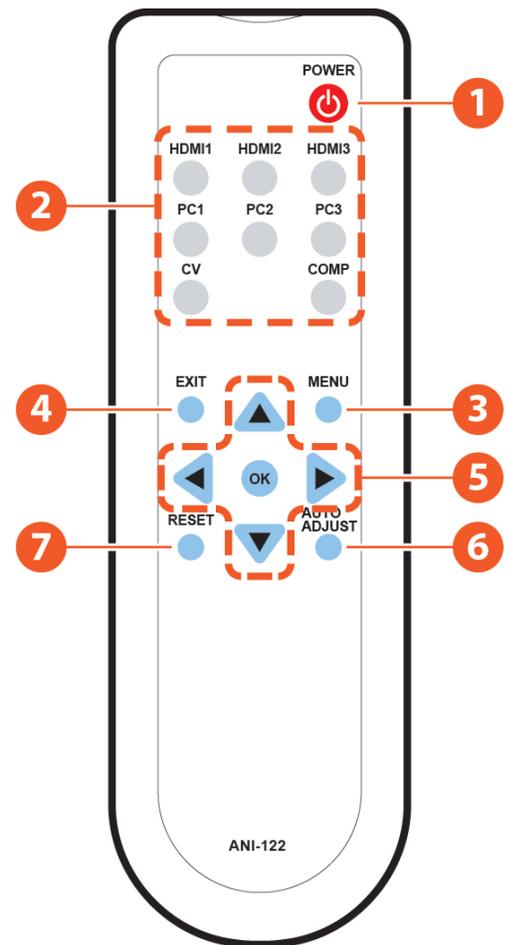
**6 CONTROL:** This port is the link for Telnet or WebGUI controls, connect to an active Ethernet link with an RJ45 terminated cable

**7 POWER:** Switch this power toggle to turn on and activate the device or turn off to shut it down.

**8 DC 5V:** Connect the power adaptor included in the package to the device and plug it into an AC wall outlet for power supply.

REMOTE CONTROL

- ① **POWER:** Press this button to switch the device on or to set it to standby mode.
- ② **HDMI 1~3, PC 1~3, CV & COMP:** Direct source selection keys. Press one of these keys to switch to the required source.
- ③ **MENU:** Press this button to enter the OSD menu.
- ④ **EXIT:** Press this button to exit the menu or the current selection in the OSD menu.
- ⑤ **OK & ▲/▼/◀/▶:** Press OK to confirm the selection or press the arrow buttons to navigate the OSD menu. When the OSD menu is not active, use the LEFT/RIGHT (◀/▶) to control the volume level.
- ⑥ **AUTO ADJUST:** Press this button when the image being outputted does not correctly fit the display's screen. The device will auto adjust the image to fill the screen.
- ⑦ **RESET:** Press this button to reset the device back to the default settings.



**IR CODES**

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CUSTOM CODE: 807F

POWER KEY:	807F 82
HDMI 1:	807F 88
HDMI 2:	807F 89
HDMI 3:	807F 8A
PC 1:	807F 8C
PC 2:	807F 8D
PC 3:	807F 8E
CV:	807F 90
COMP:	807F 92
EXIT:	807F C2
MENU:	807F 99
UP:	807F 9A
DOWN:	807F 9E
LEFT:	807F 9C
RIGHT:	807F 98
OK:	807F 9D
RESET:	807F D8
AUTO/ADJUST:	807F 84

OSD MENU

MAIN MENU	SUB MENU	3RD MENU	4TH MENU
DISPLAY	OUTPUT	640x480 60	
		800x600 60	
		1024x768 60	
		1280x768 60	
		1360x768 60	
		1280x720 60	
		1280x800 60	
		1280x1024 60	
		1440x900 60	
		1400x1050 60	
		1680x1050 60	
		1600x1200 60	
		1920x1080 60	
		1920x1200 60	
		<b>1280x720p 60*</b>	
		1920x1080i 60	
		1920x1080p 60	
		720x576p 50	
		1920x1080i 50	
		1920x1080p 50	
	SIZE	OVER SCAN	
		<b>FULL*</b>	
		FOLLOW INPUT	
		PAN SCAN	
		LETTER BOX	
		UNDER 2	
		UNDER 1	
	MODE INFO	OFF	
		<b>INFO*</b>	
		ON	
	INPUT HDCP (HDMI source only)	OFF	
		<b>ON*</b>	

OSD MENU

MAIN MENU	SUB MENU	3RD MENU	4TH MENU
DISPLAY	PC (PC source only)	AUTO SETUP	
		H_POSITION	
		V_POSITION	
		PHASE	
		CLOCK	
		WXGA/XGA	XGA*
			WXGA
		RESET	
	TIMING SHIFT	OFF*	
		ON	
COLOR	CONTRAST	0~60 (30)	
	BRIGHTNESS	0~60 (30)	
	COLOR	R 0~1023 (512)	
		G 0~1023 (512)	
		B 0~1023 (512)	
		R OFFSET 0~1023 (512)	
		G OFFSET 0~1023 (512)	
		B OFFSET 0~1023 (512)	
	HUE	0~60 (30)	
	SATURATION	0~60 (30)	
	SHARPNESS	0~30 (0)	
NR.	OFF*		
	LOW		
	MIDDLE		
	HIGH		
AUDIO	VOLUME	0~100 (100)	
	DELAY	OFF*	
		40ms	
		110ms	
		150ms	
	SOUND	ON*	
		MUTE	
	SOURCE (HDMI mode only)*1	AUTO*	
EXT.			

OSD MENU

MAIN MENU	SUB MENU	3RD MENU	4TH MENU
SETUP	<b>FACTORY RESET*<sup>2</sup></b>		
	KEY LOCK	<b>OFF*</b>	
		ON	
	POWER SAVE	<b>OFF*</b>	
		ON	
	IP MODE	<b>DHCP*</b>	
		STATIC	
	SET STATIC IP	IP ADDRESS	0.0.0.0~ 255.255.255.255* <sup>3</sup>
		SUBNET MASK	0.0.0.0~255.255.255.255* <sup>4</sup>
		DEF. GETWAY	0.0.0.0~255.255.255.255* <sup>5</sup>
FREERUN COLOR	BLACK		
	<b>BLUE*</b>		
INFORMATION	INPUT		
	OUTPUT		
	REVISION		
	IP ADDRESS		

**NOTE:**

1. When AUDIO SOURCE sets to 'AUTO', if the selected HDMI input port is connected to an HDMI source, audio signal of the source will be used for output; if the selected HDMI input port is connected to a DVI source, audio signal from the 3.5mm phonejack on top of the selected HDMI input port will be used. When AUDIO SOURCE sets to 'EXT', only the audio signal from the 3.5mm phone-jack on top of the selected HDMI input port will be used for output.

2. The FACTORY RESET option in the OSD menu will only reset part of settings. For a complete reset of the system, please use the reset button on the remote control.

3. 192.168.0.1 (Default setting).

4. 255.255.255.0 (Default setting).

5. 192.168.0.254 (Default setting).

6. Items in BOLD with an asterisk (\*) are the Factory default settings. Items in brackets are the default values for those settings.

**RS-232 & TELNET COMMANDS**

COMMAND	ACTION			
<b>S POWER 0/1</b>	0=OFF 1=ON			
<b>R POWER</b>	Reports the numeric equivalent for <b>POWER</b>			
<b>S SOURCE 1~8</b>	1=HDMI 1 2=HDMI 2	3=HDMI 3 4=YPbPr	5=VIDEO 6=PC 1	7=PC 2 8=PC 3
<b>R SOURCE</b>	Reports the numerical equivalent for <b>SOURCE</b> setting (as above)			
<b>S OUTPUT 0~21*1</b>	0=640x480 1=800x600 2=1024x768 3=1280x768 4=1360x768 5=1280x720	6=1280x800 7=1280x1024 8=1440x900 9=1400x1050 10=1680x1050 11=1600x1200	12=920x1080 13=1920x1200 14=480p 15=720p@60 16=1080i@60 17=1080p@60	18=576p 19=720p@50 20=1080i@50 21=1080p@50
<b>R OUTPUT</b>	Reports the numerical equivalent for <b>OUTPUT</b> setting (as above)			
<b>S SIZE 0~6</b>	0=OVERSCAN 1=FULL	2=FOLLOW INPUT 3=PAN SCAN	4=LETTER BOX 5=UNDER 2	6=UNDER 1
<b>R SIZE</b>	Reports the numerical equivalent for <b>SIZE</b> setting (as above)			
<b>S INPUT HDCP 0/1</b>	0=ON		1=OFF	
<b>R INPUT HDCP</b>	Apple Computers Only. Reports the numerical equivalent for <b>INPUT HDCP</b> setting (as above)			
<b>S SYNCSHIFT 0/1</b>	0=ON		1=OFF	
<b>R SYNCSHIFT</b>	Reports the numerical equivalent for <b>SYNCSHIFT</b> setting (as above)			
<b>S CONTRAST 0~60</b>	Sets the numerical equivalent for <b>CONTRAST</b> setting (0~60)			
<b>R CONTRAST</b>	Reports the numerical equivalent for <b>CONTRAST</b> setting			
<b>S BRIGHTNESS 0~60</b>	Sets the numerical equivalent for the <b>BRIGHTNESS</b> setting (0~60)			
<b>R BRIGHTNESS</b>	Reports the numerical equivalent for the <b>BRIGHTNESS</b> setting			
<b>S HUE 0~60</b>	Sets the numerical equivalent for the <b>HUE</b> setting (0~60)			
<b>R HUE</b>	Reports the numerical equivalent for the <b>HUE</b> setting			
<b>S SATURATION 0~60</b>	Sets the numerical equivalent for the <b>SATURATION</b> setting (0~60)			
<b>R SATURATION</b>	Reports the numerical equivalent for the <b>SATURATION</b> setting			
<b>S SHARPNESS 0~30</b>	Sets the numerical equivalent for the <b>SHARPNESS</b> setting (0~60)			
<b>R SHARPNESS</b>	Reports the numerical equivalent for <b>SHARPNESS</b> setting			
<b>S NR 0~3</b>	0=OFF	1=LOW	2=MIDDLE	3=HIGH
<b>R NR</b>	Reports the numerical equivalent for the <b>NOISE REDUCTION</b> setting (as above)			
<b>S VOLUME 0~100</b>	Sets the numerical equivalent for <b>VOLUME</b> setting (0~100)			
<b>R VOLUME</b>	Reports the numerical equivalent for <b>VOLUME</b> setting			
<b>VOL +</b>	Raises the volume level (VOLUME* IS SET)			
<b>VOL -</b>	Lowers the volume level (VOLUME* IS SET)			
<b>S AUDIO DELAY 0~3</b>	0=OFF	1=40ms	2=110ms	3=150ms
<b>R AUDIO DELAY</b>	Reports the numeric equivalent for the <b>AUDIO MUTE</b> setting (as above)			

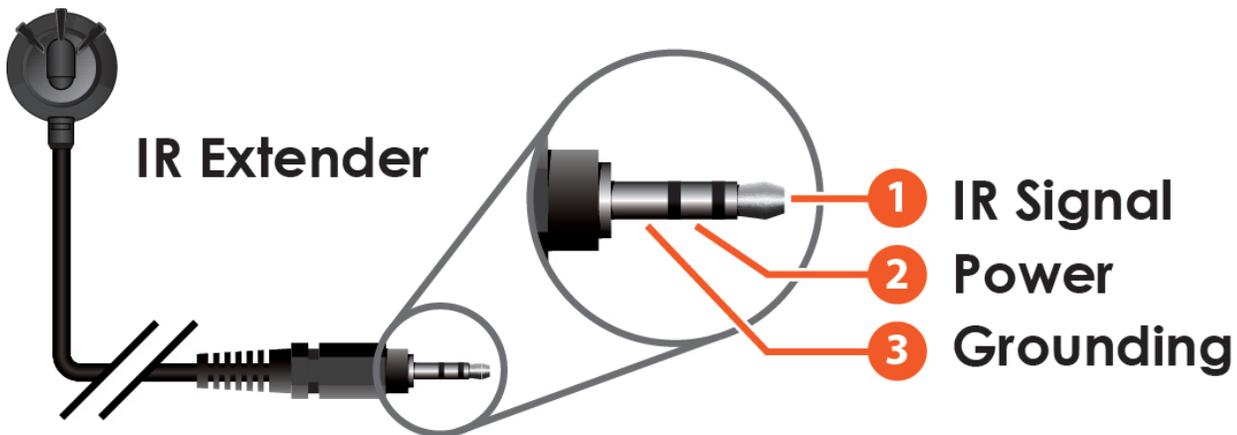


**RS-232 PIN ASSIGNMENT**

ANI-8MFS		Remote Control Console	
PIN	Assignment	PIN	Assignment
1	NC	1	NC
2	<b>Tx</b>	2	<b>Rx</b>
3	<b>Rx</b>	3	<b>Tx</b>
4	NC	4	NC
5	<b>GND</b>	5	<b>GND</b>
6	NC	6	NC
7	NC	7	NC
8	NC	8	NC
9	NC	9	NC

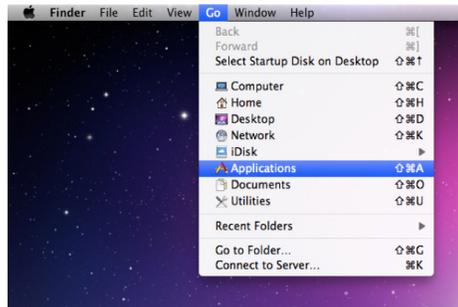
Baud Rate: 19200bps  
 Data bit: 8 bits  
 Parity: None  
 Flow Control: None  
 Stop Bit: 1

**IR CABLE PIN ASSIGNMENT**



TELNET CONTROL

Before attempting to use TELNET control, please ensure that both the Scaler (via the LAN port) and the PC/Laptop r control system being used are connected to the same active network.



To access TELNET in Windows 7, click on the “Start” menu and type “cmd” in the search field, then press “Enter”. Under Windows XP go to the “Start” menu, click on “Run”, type “cmd” then press “Enter”.

Under Mac OS X, go to **Go** → **Applications** → **Utilities** → **Terminal**. See below for reference.

Once in the CLI (Command Line Interface) type “TELNET”, along with the IP address of the unit you wish to control.

**NOTE:** The IP address can be obtained from the OSD menu under Information. If the IP is changed then the IP Address required for Telnet access will also needs to be change accordingly.

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>telnet 192.168.5.80 23
```

```
$ POWER n // n:0~1 ,0:Off 1:On
R POWER //
$ SOURCE n // n:1~8
R SOURCE //
$ OUTPUT n // n:0~21
R OUTPUT //
$ SIZE n // n:0~6
R SIZE //
$ INPUTHDCP n // n:0~1 ,0:On 1:Off
R INPUTHDCP //
$ CONTRAST n // n:0~60
R CONTRAST //
$ BRIGHTNESS n // n:0~60
R BRIGHTNESS //
$ HUE n // n:0~60
R HUE //
$ SATURATION n // n:0~60
R SATURATION //
$ SHARPNESS n // n:0~30
R SHARPNESS //
```

```
$ NR n // n:0~3
R NR //
$ VOLUME n // n:0~100
R VOLUME //
$ AUDIODELAY n // n:0~3
R AUDIODELAY //
$ AUDIOMUTE n // n:0~1 ,0:On 1:Mute
R AUDIOMUTE //
$ HDMIAUDIO n // n:0~1 ,0:Auto 1:Ext.
R HDMIAUDIO //
$ KEY LOCK n // n:0~1 ,0:On 1:Off
R KEY LOCK //
$ FREERUNCOLOR n// n:0~1 ,0:Black 1:Blue
R FREERUNCOLOR //
$ RESET n // n:1
PORT n // n:0~8
ST // Show Status & fw version
UOL + // Volume Up
UOL - // Volume Down
```

Type ‘?’ to list all the available commands.

**NOTE:** All commands will not be executed unless followed by a carriage return. Commands are NOT case-sensitive.

WEBGUI CONTROL

On a PC/Laptop that is connected to same active network as the Scaler, open a web browser and type device's IP address on the web address entry bar. The browser will bring up the control page of the Scaler (see below for reference).

*Multi-Input Scaler*

The screenshot shows the Multi-Input Scaler web control interface. It is organized into several functional sections:

- POWER:** A dropdown menu set to 'ON'.
- INPUT:** A dropdown menu set to 'PC'.
- STATUS:** Displays system information: INPUT: 1280x720(60), OUTPUT: 1280x720 60, REVISION: 3.38.
- DISPLAY:** Contains settings for OUTPUT (1280X720 60), SIZE (FULL), MODE INFO (INFO), INPUT HDCP (ON), PC AUTO SETUP (NO), H-POSITION (30), V-POSITION (30), PHASE (31), CLOCK (1664), WXGA/XGA (XGA), and RESET (NO).
- COLOR:** Features sliders for CONTRAST (30), BRIGHTNESS (30), R (512), G (512), B (512), R OFFSET (512), G OFFSET (512), B OFFSET (512), HUE (30), SATURATION (30), SHARPNESS (0), and NR (OFF).
- AUDIO:** Includes a VOLUME slider (100), DELAY (OFF), SOUND (ON), and SOURCE (AUTO).
- SETUP:** Contains FACTORY RESET (NO), KEY LOCK (OFF), and POWER SAVE (OFF).

**NOTE:** The IP address can be obtained from the OSD menu under Information. If the IP is changed then the IP Address required for Telnet access will also need to be changed accordingly.

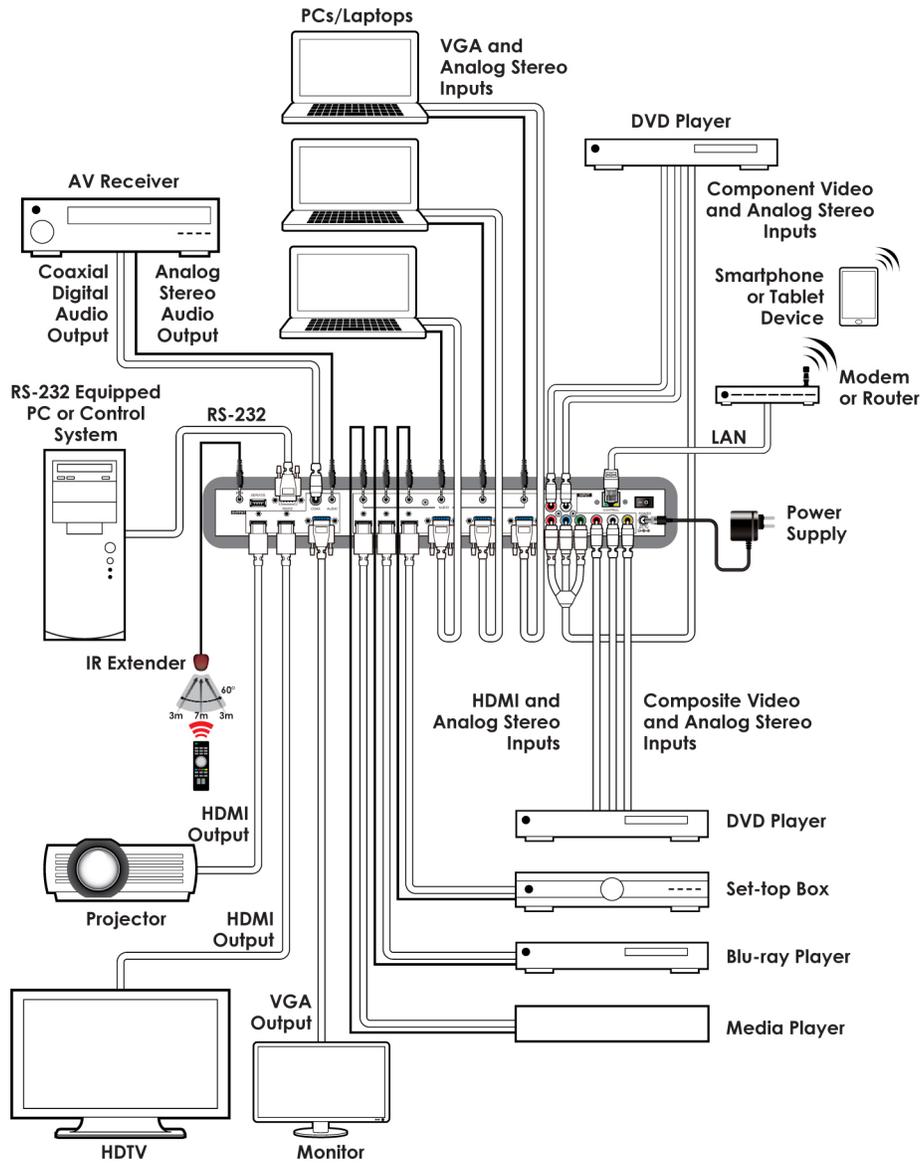
**INPUT RESOLUTIONS**

RESOLUTION	CV	YCbCr/YPbPr	PC	HDMI
NTSC/PAL	✓	X	X	X
480i/576i	X	✓	X	✓
480p/576p	X	✓	X	✓
720p@50/60	X	✓	X	✓
1080i@50/60	X	✓	X	✓
1080p@50/60	X	✓	X	✓
VGA@60/72/75	X	X	✓	✓
SVGA@56/60/72/75	X	X	✓	✓
XGA@60/70/75	X	X	✓	✓
SXGA@60/75	X	X	✓	✓
UXGA@60	X	X	✓	✓
1280x800@60	X	X	✓	✓
1680x1050RB@60	X	X	✓	✓
1920x1080@60	X	X	✓	✓
1920x1200@60 (RB)	X	X	✓	✓

**OUTPUT RESOLUTIONS**

RESOLUTION	PC/HD	HDMI
480p/576p HD	HD	✓
720p@50/60 HD	HD	✓
1080i@50/60 HD	HD	✓
1080p@50/60 HD	HD	✓
VGA@60	✓	✓
SVGA@60	✓	✓
XGA@60	✓	✓
SXGA@60	✓	✓
UXGA@60	✓	✓
1280x768@60	✓	✓
1280x800@60	✓	✓
1360x768@60	✓	✓
1400x1050@60	✓	✓
1440x900@60	✓	✓
1680x1050@60	✓	✓
1920x1200@60(RB)	✓	✓

CONNECTION DIAGRAM



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