ANI-4KHPN

4K UHD+ HDMI to HDMI Scaler w/ EDID management

OUTPUT

HDMI TOSLINK AUDIO

HDMI 4K2K HDCP2.2

MENU — +

A▶NEU VIDEO

A-NeuVideo.com
Frisco, Texas 75036

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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.

THIS SAFETY INFORMATION IS OF A GENERAL NATURE AND MAY BE SUPERSEDED BY INSTRUCTIONS CONTAINED WITHIN THIS MANUAL.

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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.

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INTRODUCTION

This compact yet versatile HDMI to HDMI UHD Scaler accepts and outputs a wide range of resolutions up to 4K@60Hz (4:4:4, 8-bit) with simultaneous audio embedding and de-embedding of digital (HDMI or optical) or analog audio. Integrated EDID and HDCP management options allow for control over the way connected sources and displays detect the unit. The scaled HDMI output is powered by a high quality single-pass scaling engine with the ability to adjust the image with a number of fine tuning options including: contrast, brightness, hue, saturation, sharpness, noise reduction, and RGB levels. 3-D motion adaptive de-interlacing and frame rate conversion is supported as well.

The HDMI input and output supports passing up to LPCM 7.1 digital audio as well as Bitstream and HD Bitstream audio formats. Audio embedding and de-embedding is also available with the included digital optical and analog stereo audio inputs and outputs (LPCM 2.0 only). Shortcut keys are provided to quickly change the output resolution to 1080p@60Hz or XGA when needed for quick connection to a display or for troubleshooting purposes.

This is an ideal device to integrate previously incompatible sources and displays in your boardroom, classroom, or home. This unit is controlled via a comprehensive On-Screen Display (OSD) menu that provides the user with easy access to all settings. These products have 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-4KHPN HDMI to HDMI Scaler
- 5V/2.6A DC Power Adapter
- Users Guide

FEATURES / SYSTEM REQUIREMENTS/ APPLICATIONS

FEATURES

- HDMI input and output with 18Gbps (600MHz) 4K UHD support
- DVI 1.0 compliant with the use of an HDMI-DVI adaptor
- HDCP 2.2 and HDCP 1.x compliant
- HDMI input and 1 HDMI output
- Digital Optical Audio (TOSLINK) and 1 Analog Stereo Audio input
- Digital Optical Audio (TOSLINK) and 1 Analog Stereo Audio output
- HDMI input supports resolutions up to 4096x2160p@60Hz (4:4:4, 8-bit)
- Scaled HDMI output supports resolutions from 640x480@60Hz up to 4096x2160p@60Hz (4:4:4, 8-bit)
- Supports pass-through of many audio formats including LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream via HDMI
- Supports audio embedding and de-embedding via digital optical and analog stereo audio inputs and outputs (LPCM 2.0 only)
- Supports frame rate conversion, 3-D motion adaptive de-interlacing, and 3:2/2:2 pull-down detection and recovery
- Supports output adjustments to contrast, brightness, hue, saturation, sharpness, RGB levels and aspect ratio
- Integrated EDID and HDCP management
- Controllable via front panel buttons with comprehensive OSD

SYSTEM REQUIREMENTS

- HDMI source equipment such as media players, video game consoles or set-top boxes.
- HDMI receiving equipment such as HDTVs, monitors or audio amplifiers.
- The use of **"Premium High Speed HDMI"** cables is highly recommended.

APPLICATIONS

- Entertainment Rooms & Home Theaters
- Showrooms & Demo Rooms
- Lecture Hall Presentations
- Public Commercial Displays
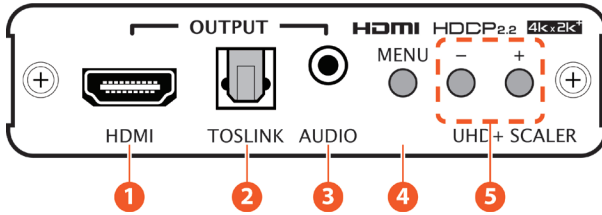- AV Equipment and Control Rooms

SPECIFICATIONS

- **HDMI Bandwidth:** 600MHz/18Gbps
- **Input Ports:**
  - HDMI
  - Stereo (3.5mm)
  - S/PDIF (TOSLINK)
- **Output Ports:**
  - HDMI
  - Stereo (3.5mm)
  - S/PDIF (TOSLINK)
- **Power Supply:** 5V/2.6A DC (US/EU Standards, CE/FCC/UL Certified)
- **ESD Protection: Human Body Model:**
  - ±8kV (Air Discharge)
  - ±4kV (Contact Discharge)
- **Dimensions (WxDxH):** 4 x 1 x 5.8 in (102x25x147mm) [Case Only] / 4 x 1 x 6.1 in (102x25x155.75mm) [All Inclusive]
- **Weight:** 12.3 oz / 350g
- **Chassis Material:** Aluminum
- **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 (no condensation)
- **Power Consumption:** 11W

As product improvements are continuous, specifications are subject to change without notice.
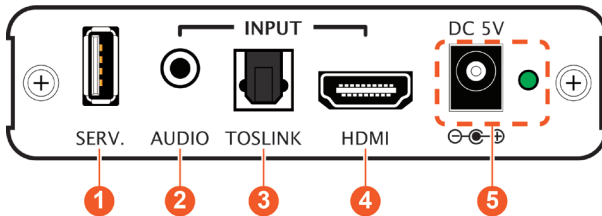
OPERATION CONTROLS & FUNCTIONS

FRONT PANEL

❶ HDMI OUTPUT: Connect to an HDMI TV, monitor or amplifier for digital video and audio output.

❷ TOSLINK INPUT: Connect to powered speakers or an amplifier for digital audio output using an appropriate optical cable.

❸ AUDIO INPUT: Connect to powered speakers or an amplifier for stereo analog audio output.

❹ MENU: Press to enter the OSD menu, to confirm a selection within the OSD or to go deeper into a menu item. To back out from menu items or exit the menu, select the **"Exit"** option.

❺ − & +: Press to move up and down or adjust selections within OSD menus.

*Note: Pressing **"MENU"** and **"+"** together will reset the output resolution to XGA (1024x768@60Hz). Pressing **"MENU"** and **"−"** together will reset the output resolution to 1080p@60Hz. Pressing and holding the **"−"** button while powering the unit on will perform a factory reset.*

BACK PANEL

❶ SERV.: This port is reserved for firmware update use only.

❷ AUDIO INPUT: Connect to the stereo analog output of a device such as an audio player or PC.

❸ TOSLINK INPUT: Connect to the optical audio output of a device such as a media player or game console using an appropriate optical cable.

❹ HDMI INPUT: Connect to HDMI source equipment such as a media player, game console or set-top box.

❺ DC 5V & LED: Plug the 5V DC power adapter into this port and connect it to an AC wall outlet for power. The LED will illuminate to indicate the unit is on and receiving power.

OSD MENU

OSD MENU

All functions of this unit can be controlled by using the OSD (On Screen Display) which is activated by pressing the **MENU** button on the front of the unit. Use the **+** (Plus), **−** (Minus), and **MENU** buttons to navigate the OSD menu. Select the **"EXIT"** option to back out from any menu item and then select it again to close the menu.

MAIN MENU
VIDEO
PICTURE
AUDIO
OSD
EDID
RESET
FW UPDATE
INFORMATION
EXIT

The individual functions of the OSD will be introduced in the following section. Items marked in **BOLD** are the factory default settings.

OSD MENU

VIDEO

2ND LEVEL	3ND LEVEL	4TH LEVEL
OUTPUT	640x480 60	
	800x600 60	
	1024x768 60	
	1280x768 60	
	1280x800 60	
	1280x1024 60	
	1360x768 60	
	1400x1050 60	
	1440x900 60	
	1600x1200 60	
	1600x1200 60	
	1680x1050 60	
	1920x1200 60 RB	
	2560x1600 60	
	1920x1080 60	
	1280x720 60	
	2048x1080 50	
	2048x1080 60	
	602560x1440 60 RB	
	720x480P 60	
	1280x720P 60	
	1920x1080P 60	
	720x576P 50	
	1280x720P 50	
	1920x1080P 50	
	1920x1080P 24	
	1920x1080P 25	
	1920x1080P 30	

OSD MENU

VIDEO

2ND LEVEL	3ND LEVEL	4TH LEVEL
OUTPUT	2560x1080P 50	
	2560x1080P 60	
	3840x2160P 24	
	3840x2160P 25	
	3840x2160P 30	
	3840x2160P 50	
	3840x2160P 60	
	4096x2160P 24	
	4096x2160P 25	
	4096x2160P 30	
	4096x2160P 50	
	4096x2160P 60	
	Native	
ASPECT	Over Scan	
	FULL	
	Best Fit	
	Pan Scan	
	Letter Box	
	Under 2	
	Under 1	
	Follow In	
	Zoom Mode	
ZOOM MODE RATIO	60~180 **(100)**	
HDCP	Off	
	Refer to Source	
	REFER TO DISPLAY	
NO SIGNAL COLOR	**BLACK**	
	White	

OSD MENU

VIDEO

2ND LEVEL	3ND LEVEL	4TH LEVEL
NO SIGNAL COLOR	Blue	
	Red	
	Green	
BLANK	**OFF**	
	On	
FREEZE	**OFF**	
	On	
AUTO SYNC OFF	**OFF**	
	30s	
	60s	
	3 Min	
	5 Min	
	10 Min	
OUTPUT SETTING	Bypass Enable	**OFF**
		On
	Output 4K(6G) YUV420	**OFF**
		On
	EXIT	
EXIT		

1. OUTPUT: Selects the output resolution to use. Selecting **"Native"** will make the unit automatically select an output resolution based on the detected EDID of the connected display.

2. ASPECT: Selects the aspect ratio to use when outputting the source. **"Full"** stretches the source to fill the output resolution, regardless of the original aspect ratio, while **"Best Fit"** will always attempt to retain the original source's correct aspect ratio by adding black bars if necessary. **"Follow In"** centers the source on the screen, without any scaling (1:1 pixel reproduction). Selecting **"Zoom Mode"** activates the free-scaling zoom mode which allows for a zoom/shrink level to be manually selected using the **"Zoom Mode Ratio"** setting.
Note: Some video noise might be present when using the "Follow In" mode if the selected output resolution is 4096x2160@60Hz and the source is at, or above, 1680x1050 but below 3840x2160.

3. ZOOM MODE RATIO: Sets the percentage amount to zoom or shrink the image when **"Zoom Mode"** is active.

4. HDCP: Selects the HDCP logic to use with the HDMI input. Setting this to **"Off"** will completely disable HDCP support on that input.

5. NO SIGNAL COLOR: Selects the free run color to use when no live input source is detected.

6. BLANK: Allows for the output video and audio to be blanked/ muted.

7. FREEZE: Allows for the output video to be frozen. While the output is frozen, audio output will also be muted.

8. AUTO SYNC OFF: Sets the amount of time to continue outputting sync with the free run color if there is no live source and no operations have been executed on the unit. Setting this to **"OFF"** forces the unit to always output sync.

9. OUTPUT SETTING: Allows for configuring the following special video signal handing functions.
- **Bypass Enable:** Enables or disables source bypass mode. When this is enabled, the video signal will be passed without modifi cation.
- **Output 4K(6G) YUV420:** Enables or disables the 4K@50/60 4:4:4 to 4K@50/60 4:2:0 color space conversion function.

Note: Enabling Bypass mode will grey-out/disable the following Video Menu sections: Aspect, Zoom Mode Ratio, Freeze, Blank, and the entire Picture Menu section.

PICTURE

2ND LEVEL	3ND LEVEL
COLOR GAIN R	0~1023 **(512)**
COLOR GAIN G	0~1023 **(512)**
COLOR GAIN B	0~1023 **(512)**
COLOR OFF SET R	0~1023 **(512)**
COLOR OFF SET G	0~1023 **(512)**
COLOR OFF SET B	0~1023 **(512)**
BRIGHTNESS	0~60 **(30)**
CONTRAST	0~60 **(30)**
HUE	0~60 **(30)**
SATURATION	0~60 **(30)**

OSD MENU

PICTURE

2ND LEVEL	3ND LEVEL
SHARPNESS	0~60 **(30)**
NR	**OFF**
	Low
	Middle
	High
	Auto
RESET PICTURE	
EXIT	EXIT

1. COLOR GAIN R/G/B: These controls provide control over the red, green, and blue color gain level of the scaled output.

2. COLOR OFF SET R/G/B: These controls provide control over the red, green, and blue color off set level of the scaled output.

3. BRIGHTNESS: Provides control over the overall brightness of the scaled output image.

4. CONTRAST: Provides control over the overall contrast of the scaled output image.

5. HUE: Provides control over the hue shift of the scaled output image.

6. SATURATION: Provides control over the color saturation level of the scaled output image.

7. SHARPNESS: Provides control over the amount of sharpness processing to apply to the scaled output image.

8. NR: Provides control over the aggressiveness of the digital noise reduction processing when applied to the scaled output image. Selecting **"OFF"** disables all noise reduction processing.

9. RESET PICTURE: Selecting this will reset all picture settings back to their factory defaults.

OSD Menu

AUDIO

2ND LEVEL	3ND LEVEL
SOURCE	AUTO
	TOSLINK
	Analog
VOLUME	0~100 **(80)**
HDMI MUTE	OFF
	On
TOSLINK MUTE	OFF
	On
ANALOG MUTE	OFF
	On
RESET AUDIO	
EXIT	

1. SOURCE: Provides control over the selection of the audio source to output. In **"Auto"** mode, if no audio source is detected the audio input will automatically switch to the analog input. *Note: If "Auto" is selected, and there is no video source, the analog audio will be heard while the free run color is displayed.*

2. VOLUME: Provides control over the audio source's volume level.
Note: HDMI to HDMI audio is bypass only and the volume can not be adjusted.

3. HDMI MUTE: Mutes or unmutes the HDMI output's audio.

4. TOSLINK MUTE: Mutes or unmutes the TOSLINK output's audio.

5. ANALOG MUTE: Mutes or unmutes the analog output's audio.

6. RESET AUDIO: Selecting this will reset all audio settings back to their factory defaults.

OSD MENU

OSD

2ND LEVEL	3ND LEVEL
H POSITION	0~60 **(30)**
V POSITION	0~60 **(30)**
TIMER	OFF
	5s
	10s
	15s
	20s
	25s
	30s
	35s
	40s
	45s
	50s
	55s
	60s
TRANSPARENT	0~50 **(50)**
DISPLAY	Off
	On
	5S
	10s
RESET OSD	
EXIT	

1. H POSITION: Set the horizontal position of the OSD menu.

2. V POSITION: Set the vertical position of the OSD menu.

3. TIMER: Set the length of time to wait before automatically turning off the OSD menu if there is no user interaction. The timer may also be disabled.

4. TRANSPARENT: Set the transparency level of the OSD menu. A setting of 50 is completely opaque.

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5. DISPLAY: Enable or disable the information display and set the length of time for the information display to be visible after a source or resolution change.

6. RESET OSD: Selecting this will reset all OSD settings back to their factory defaults.

EDID

2ND LEVEL	3ND LEVEL
HDMI EDID	**FHD 2CH**
	FHD MCh
	UHD 2Ch
	UHD MCh
	UHD+ 2Ch
	UHD+ MCh
	Output
	Auto Output
EXIT	

1. HDMI EDID: Select the EDID to use with the HDMI input. Selecting **"Output"** will copy and use the current sink's EDID but will not re-copy the EDID if the sink is changed. Selecting **"Auto Output"** will automatically copy and use the EDID from the current sink every time a new sink is connected.

RESET

2ND LEVEL	3ND LEVEL
RESET ALL	
EXIT	

1. RESET ALL: Selecting this will reset the unit's settings back to their factory defaults.

FW UPDATE

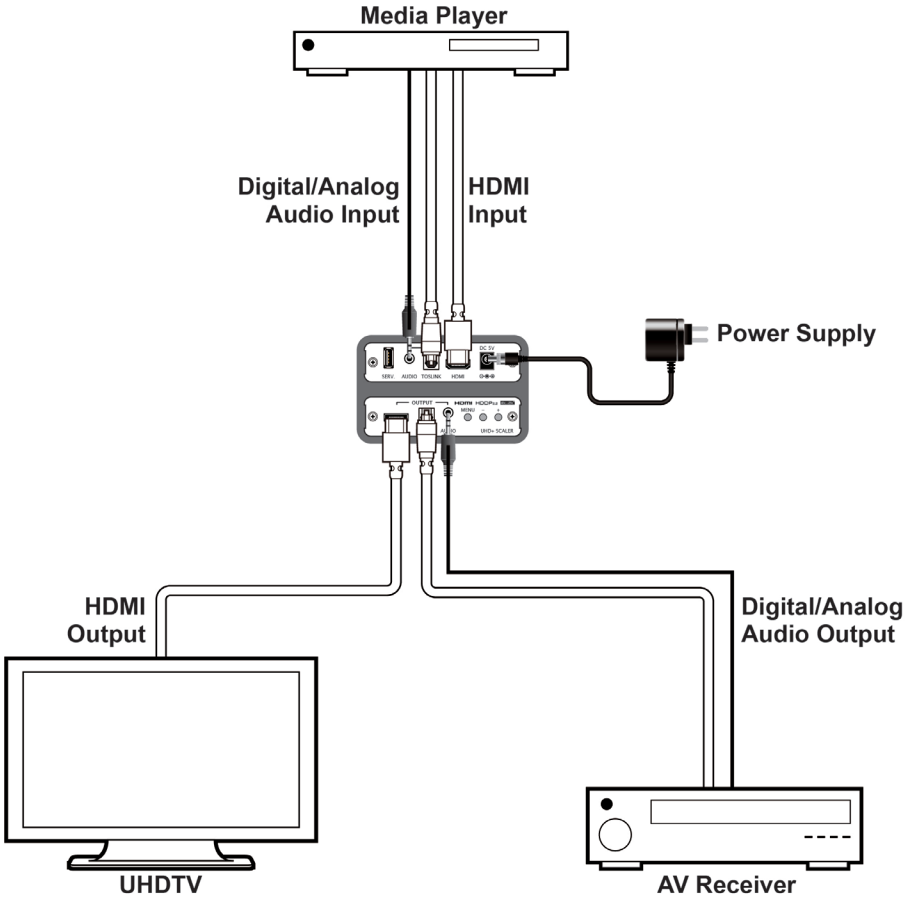| 2ND LEVEL	3ND LEVEL
UPDATE FROM USB	
EXIT	

OSD Menu

1. UPDATE FROM USB: Provides a way to update the unit's fi rmware. Insert a USB thumb drive, with a valid firmware file (*.bin format) in the root directory, into the unit's USB service port then select this option. After the update is complete the unit will automatically reboot.

INFORMATION

2ND LEVEL	3ND LEVEL
INPUT FORMAT	[Current Status Details]
INPUT COLOR	
INPUT RESOLUTION	
INPUT HDCP	
OUTPUT FORMAT	
OUTPUT COLOR	
OUTPUT RESOLUTION	
OUTPUT HDCP	
SINK HDCP	
VERSION	

1. INFORMATION: This screen displays information about the unit's current state, input and output status, as well as the current fi rmware version.

CONNECTION DIAGRAM

Media Player

Digital/Analog Audio Input

HDMI Input

Power Supply

HDMI Output

Digital/Analog Audio Output

UHDTV

AV Receiver

VIDEO SPECIFICATIONS

VIDEO SPECIFICATIONS

SUPPORTED PC RESOLUTION (HZ)	HDMI Input	HDMI Output	SUPPORTED PC RESOLUTION (HZ)	HDMI Input	HDMI Output
640x480@60/72/75/85	✓	60Hz	1440x900@60/60 (RB)	✓	60Hz
800x600@56/60/72/75/85	✓	60Hz	1600x1200@60	✓	✓
1024x768@60/70/75/85	✓	60Hz	1680x1050@60/60 (RB)	✓	60Hz
1280x720@50/60	✓	60Hz	1920x1080@60	✓	✓
1280x768@60/75/85	✓	60Hz	1920x1200@60 (RB)	✓	✓
1280x800@60/60 (RB)	✓	60Hz	2560x1600@60	✓	✓
1280x1024@60	✓	✓	2048x1080@50	✓	✓
1360x768@60	✓	✓	2048x1080@60	✓	✓
1400x1050@60/60 (RB)	✓	60Hz	2560x1440@60 (RB)	✓	✓
SUPPORTED TV RESOLUTION (HZ)	**HDMI Input**	**HDMI Output**	**SUPPORTED TV RESOLUTION (HZ)**	**HDMI Input**	**HDMI Output**
720x480i@60	✓	x	1920x1080i@50/60	✓	✓
720x480p@60	✓	✓	1920x1080p@24/25/30/50/60	✓	✓
720x576i@50	✓	x	2560x1080p@50/60	✓	✓
720x576p@50	✓	✓	3840x2160p@24/25/30/50/60	✓	✓
1280x720p@50/60	✓	✓	4096x2160p@24/25/30/50/60	✓	✓

AUDIO SPECIFICATIONS

ANALOG INPUT	
MAX AUDIO LEVEL	2Vrms
IMPEDANCE	499kΩ
TYPE	Unbalanced
DIGITAL (S/PDIF) INPUT	
SAMPLING RATE (KHZ)	32, 44.1, 48, 82, 88.2, 96, 176.4, 192
DIGITAL (S/PDIF) OUTPUT	
SAMPLING RATE (KHZ)	48

ANALOG OUTPUT	
MAX AUDIO LEVEL	2Vrms
THD+N	<-80dB@0dBFS 1kHz (A-wt)
SNR	> 70dB@0dBFS
FREQUENCY RESPONSE	< ±3dB@20Hz~20kHz
CROSSTALK	<-70dB@10kHz
IMPEDANCE	499kΩ
TYPE	Unbalanced

CABLE SPECIFICATIONS

HDMI CABLE LENGTH	1080P		4K
	8-BIT	**12-bit**	**8-BIT**
INPUT	15M / ~49FT	10M / ~33FT	3M / ~10FT
OUTPUT	15M / ~49FT	10M / ~33FT	3M / ~10FT

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