

# MCX-HTS

HDMI to 3G SDI Converter



## SAFETY INSTRUCTIONS

Please review the following safety precautions. If this is the first time using this model, then read this manual before installing or using the product. If the product is not functioning properly, please contact your local dealer or Aurora for further instructions.



The lightning symbol in the triangle is used to alert you to the presence of dangerous voltage inside the product that may be sufficient to constitute a risk of electric shock to anyone opening the case. It is also used to indicate improper installation or handling of the product that could damage the electrical system in the product or in other equipment attached to the product.



The exclamation point in the triangle is used to alert you to important operating and maintenance instructions. Failure to follow these instructions could result in injury to you or damage to the product.



Be careful with electricity:

- **Power outlet:** To prevent electric shock, be sure the electrical plug used on the product power cord matches the electrical outlet used to supply power to the Aurora product. Use only the power adapter and power connection cables designed for this unit.
- **Power cord:** Be sure the power cord is routed so that it will not be stepped on or pinched by heavy items.
- **Lightning:** For protection from lightning or when the product is left unattended for a long period, disconnect it from the power source.



Also follow these precautions:

- **Ventilation:** Do not block the ventilation slots if applicable on the product or place any heavy object on top of it.  
Blocking the air flow could cause damage. Arrange components so that air can flow freely. Ensure that there is adequate ventilation if the product is placed in a stand or cabinet. Put the product in a properly ventilated area, away from direct sunlight or any source of heat.
- **Overheating:** Avoid stacking the Aurora product on top of a hot component such as a power amplifier.
- **Risk of Fire:** Do not place unit on top of any easily combustible material, such as carpet or fabric.
- **Proper Connections:** Be sure all cables and equipment are connected to the unit as described in this manual.
- **Object Entry:** To avoid electric shock, never stick anything in the slots on the case or remove the cover.
- **Water Exposure:** To reduce the risk of fire or electric shock, do not expose to rain or moisture.
- **Cleaning:** Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- **ESD:** Handle this unit with proper ESD care. Failure to do so can result in failure.

### FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interferences received, including interference that may cause undesired operation.



### Trademarks

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## PACKAGE CONTENTS

Please make sure the following items are included within your package. Contact your dealer if any items are missing or damaged.

- MCX-HTS x 1
- 5V Power Wall Adapter x 1

Note: Go to [www.auroramultimedia.com](http://www.auroramultimedia.com) for latest manual and firmware

# INTRODUCTION

## About

The HDMI to dual SDI converter enables you to turn your HDMI audio/video signal into two 3G/HD/SD-SDI video outputs. The SDI video outputs can then be individually extended up to 328ft (100m) over standard coaxial cable for large scale 3G-SDI video distribution, 656ft(200m) over standard coaxial cable for large scale HD-SDI video distribution, 984 ft(300m) over standard coaxial cable for large scale SD-SDI video distribution

With dual SDI outputs, you can connect your HDMI video source to a local SDI display and output an additional SDI signal into your broadcasting equipment, providing a scalable solution for any SDI broadcasting application that requires an HDMI input.

## Features

- ◆ 3G SDI to HDMI Conversion
- ◆ Dual SDI Outputs
- ◆ Resolution up to 1080p
- ◆ Auto detect resolution of SD-SDI, HD-SDI and 3G-SDI
- ◆ Support 225MHz/2.25Gbps per channel (6.75Gbps all channel) bandwidth

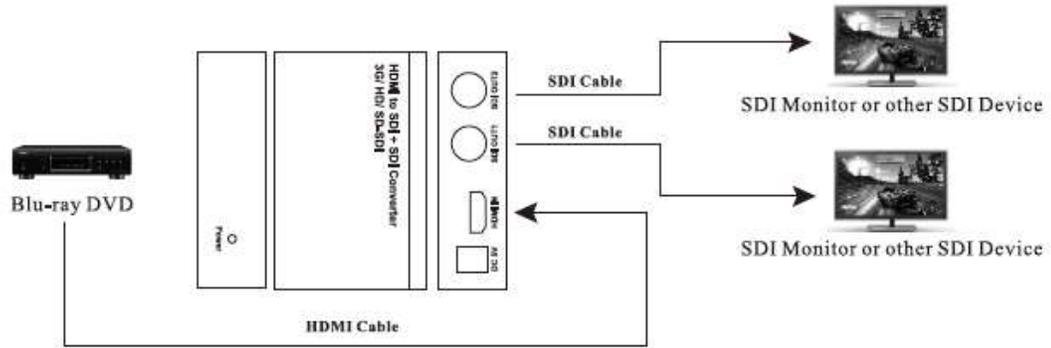
*\* Refer to Technical Specifications Section.*

## Front & Rear Panel



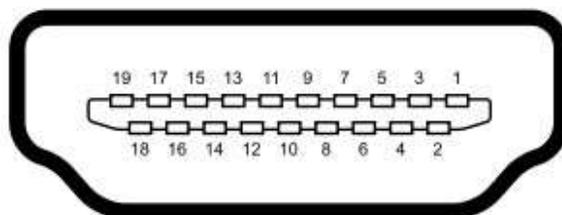
1. **SDI:** Dual Output BNC 3G SDI connection
2. **HDMI In:** HDMI input connection for display
3. **Power:** Connector for 5V Wall power
4. **Power LED:** Lit when power is applied

# Connection Diagram



## CONNECTOR PIN DEFINITION

### HDMI



Type A (Receptacle) HDMI

Pin 1	TMDS Data2+	Pin 8	TMDS Data0 Shield	Pin 15	SCL
Pin 2	TMDS Data2 Shield	Pin 9	TMDS Data0-	Pin 16	SDA
Pin 3	TMDS Data2-	Pin 10	TMDS Clock+	Pin 17	DDC/CEC Ground
Pin 4	TMDS Data1+	Pin 11	TMDS Clock Shield	Pin 18	+5 V Power
Pin 5	TMDS Data1 Shield	Pin 12	TMDS Clock-	Pin 19	Hot Plug Detect
Pin 6	TMDS Data1-	Pin 13	CEC		
Pin 7	TMDS Data0+	Pin 14	Reserved (N.C. on device)		

## APPENDIX 1 Troubleshooting

Problem	Solution
1. No Video Signal.	<ol style="list-style-type: none"><li>a. Check that the power plug is properly inserted into a functioning power outlet.</li><li>b. Make certain power switch is on.</li><li>c. Make certain destination is on</li><li>d. Make certain video output signal does not exceed 1080p</li><li>e. Make certain video cables do not exceed the recommended distances</li></ol>

## APPENDIX 2 Technical Specifications

Model Name	MCX-HTS
<b>Technical</b>	
Signal Input	HDMI
SDI Data Rate	270Mb/s, 1.485Gb/s, 2.97Gb/s
Output Video	SD-SDI, HD-SDI, 3G-SDI
DTV/HDTV (24/25.50/60Hz)	480i/576i/480p/576p/720p/1080i/1080p
SDI Distance	SD 100m, HD 200m, 3G 300m
Input HDMI Distance	10m (30ft)
<b>Mechanical</b>	
Housing	Metal
Dimensions [L x W x H]	90 x 58 x 26mm [3.54" x 2.28" x 1.02"]
Weight	166g [5.856 oz]
Power supply	5V 2A DC
Power consumption	5 Watts [max]
Operation temperature	0~50°C [32~122°F]
Storage temperature	-10~80°C [14~170°F]
Relative humidity	5~90% RH [no condensation]

**Specifications subject to change without notice.**

## APPENDIX 3    **Warranty**

### **Limited 3 Year Warranty**

Aurora Multimedia Corp. ("Manufacturer") warrants that this product is free of defects in both materials and workmanship for a period of 3 years as defined herein for parts and labor from date of purchase. This Limited Warranty covers products purchased in the year of 2009 and after. Motorized mechanical parts (Hard Drives, DVD, etc), mechanical parts (buttons, doors, etc), remotes and cables are covered for a period of 1 year. Touch screen displays are covered for 1 year; touch screen overlay components are covered for 90 days. Supplied batteries are not covered by this warranty. During the warranty period, and upon proof of purchase, the product will be repaired or replaced (with same or similar model) at our option without charge for parts or labor for the specified product lifetime warranty period.

This warranty shall not apply if any of the following:

- A. The product has been damaged by negligence, accident, lightning, water, act-of-God or mishandling; or,
- B. The product has not been operated in accordance with procedures specified in operating instructions; or,
- C. The product has been repaired and or altered by other than manufacturer or authorized service center; or,
- D. The product's original serial number has been modified or removed; or,
- E. External equipment other than supplied by manufacturer, in determination of manufacturer, shall have affected the performance, safety or reliability of the product.
- F. Part(s) are no longer available for product.

In the event that the product needs repair or replacement during the specified warranty period, product should be shipped back to Manufacturer at Purchaser's expense. Repaired or replaced product shall be returned to Purchaser by standard shipping methods at Manufacturer's discretion. Express shipping will be at the expense of the Purchaser. If Purchaser resides outside the contiguous US, return shipping shall be at Purchaser's expense.

**No other warranty, express or implied other than Manufacturer's shall apply.**

Manufacturer does not assume any responsibility for consequential damages, expenses or loss of revenue or property, inconvenience or interruption in operation experienced by the customer due to a malfunction of the purchased equipment. No warranty service performed on any product shall extend the applicable warranty period. This warranty does not cover damage to the equipment during shipping and Manufacturer assumes no responsibility for such damage.

[www.auroramultimedia.com](http://www.auroramultimedia.com)

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