

# 12G-SDI to HDMI 2.0 Converter with Audio Ext.

500744



## Overview

The 12G-SDI to HDMI 2.0 converter with audio extension. (model: 500744) provides a cost-effective way to convert 12G/6G/3G/HD-SDI signals to HDMI 2.0 compatible format. The conversion between SDI and HDMI is purely digital and guarantees a lossless transformation for both audio and video. The device supports up to 8-channel audio and also provides a low-jitter SDI local loop and high-quality analog stereo output to provide flexibility to users.

## Applications

- Video production & Broadcasting
- Studio-to-studio & Post production
- Outside broadcasting vehicle
- Mobile video & Live events
- SDI Camcorders
- Medical imaging

## Key Features

- Supported high-definition (HD) formats
- Auto 12G/6G/3G/HD-SDI detection
- Support HDMI 2.0 & below
- Supports stereo audio output
- Supports one SDI compliant input, one HDMI compliant output & one SDI loopout

# Specifications

## Technical

SDI standards	12G/6G/3G/HD-SDI
HDMI standards	HDMI 2.0
Auto 12G/6G/3G/HD-SDI detection	Yes
Video bandwidth	[SDI] 11.88 Gbps, 11.88/1.001 Gbps [HDMI] up to 18Gbps
Video support	[12G] 4K2K/50/59.94/60Hz [6G] 4K2K/23.98/24, 25, 29.97, 30Hz [3G] 1080p50/59.94/60 [HD] 720p/50/59.94/60Hz, 1080i/50/59.94/60Hz, 1080p/23.98/24/25/29.97/30Hz [HDMI] up to 4K2K/60
Input signal	1 x SDI
Output signal	1 x HDMI + 1 x SDI + 1 x 3.5mm (Audio)
Output impedance (SDI)	75Ω
Synchronization mode	Internal synchronization or external synchronization
Eye pattern characteristics	[12G-SDI] Timing jitter: 0.29 UI, Alignment jitter: 0.13 UI [6G-SDI] Timing jitter: 0.18 UI, Alignment jitter: 0.06 UI [3G-SDI] Timing jitter: 0.09 UI, Alignment jitter: 0.03 UI
Cable equalization	[12G-SDI] up to 80m [6G-SDI] up to 100m [3G-SDI] up to 190m [HD-SDI] up to 300m
Audio support	[Analog] Supports 2ch [SDI] Surround sound (up to 7.1ch)
Input	1 x BNC [SDI]
Output	1 x HDMI + 1 x BNC [SDI] + 1 x 3.5mm
BNC connector	75Ω inter-locked socket
HDMI connector	Type A [19-pin female]

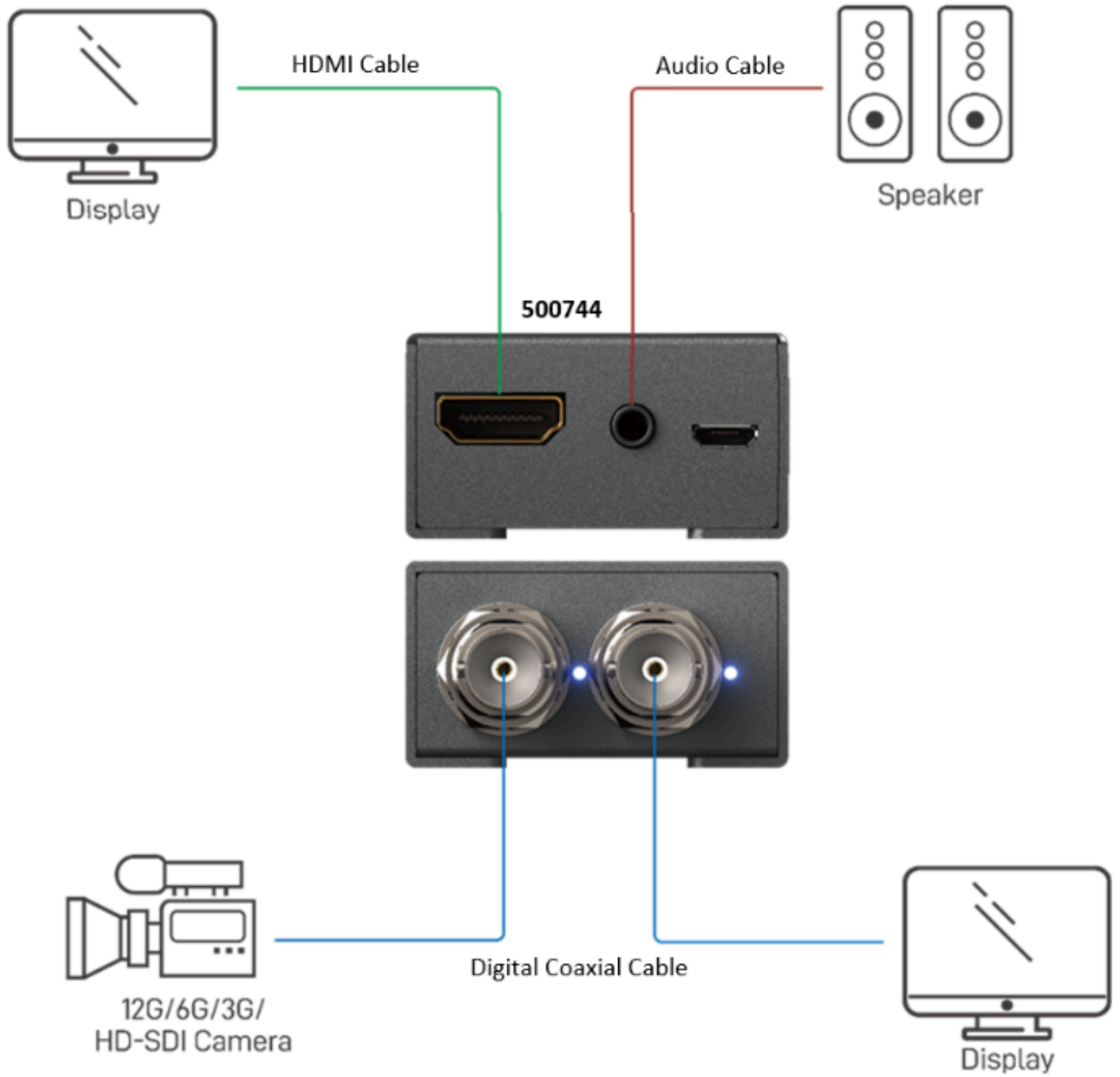
## Mechanical

Housing	Metal enclosure
Dimensions [L x W x H]	92mm x 45mm x 23mm [3.7" x 1.8" x 0.9"]
Weight	175g [6.2oz]
Power supply	5VDC
Power consumption	4 Watts [max]
Operation temperature	0~40°C [32~104°F]
Storage temperature	-20~60°C [-4~140°F]
Relative humidity	20~90% RH [no condensation]

## General

Warranty	2 years
Order Information	500744 12G-SDI to HDMI 2.0 Converter with Audio Ext. (UPC: 6276990074460)

# Application Diagram



12G-SDI to HDMI 2.0 Converter with Audio Ext.  
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DS-500742