

# 12G-SDI Repeater

500742



## Overview

The 12G-SDI Repeater (Model 500742) is a 12G-SDI to 12G-SDI Repeater with Amplification and Re-clocking Technology and auto source video format detection. It performs high-quality, low-delay video auto format detection, video signal re-clocking, and video signal amplification for transmission over a long distance. It features one 12G-SDI video input, one 12G-SDI loop video output, a locking Power Supply connector, and a USB port for software control and firmware upgrade. An output LED shows the status of the Phase Locked Loop (PLL) Video Signal Locking.

## Applications

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

## Key Features

- Wide support of SDI video signal resolutions
- High Quality 12G-SDI Re-clocking & Amplification Technology
- Multi-Standard Support (12G, 6G, 3G, HD, and SD-SDI)
- Auto Source Video Format Detection
- Supports 16-channel, 24-bit Audio formats
- Easy plug and play installation
- Rugged design and integrated brackets for easy mounting

# Specifications

Specifications	
Environment	SD-SDI up to 12G-SDI
Video Resolution	12G-SDI
Distance at 12G-SDI	Input 100M / Output 100M (Cable: Canare L-5.5CUHD) Input 70M / Output 50M (Cable: Belden 1694A)
Distance at 3G-SDI	Input 100M / Output 100M (Cable: Belden 1694A)
USB Link	Mini-USB
Power Supply	12VDC, Locking connector
Working Temperature	0°C to 40°C, up to 95% humidity non-condensing
Storage Temperature	-20°C to 60°C. Bring to working temperature range before power-up.

## Supported Video Formats

SDI Input Video Resolutions	12G-SDI	4096x2160p, 60/50fps 3840x2160p, 60/50fps
	6G-SDI	4096x2160p, 30/25/24fps 3840x2160p, 30/25/24fps
	3G-SDI	1920x1080p, 60/50fps
	HD-SDI	1920x1080p, 30/25/24fps 1920x1080i, 60/50fps 1280x720p, 60/50fps
	SD-SDI	720x480i, 60fps 720x576i, 50fps
	SDI Output Video Resolutions	SDI Loop Through has same video resolutions and frame rates as SDI Video Input

## Supported Audio Formats

SDI Audio Input	Up to 16-Channel, 24-bit, up to 48 kHz
SDI Audio Output	Up to 16-Channel, 24-bit, up to 48 kHz

## Mechanical

Housing	Black Metal Enclosure
Dimensions	100 x 70 x 26mm
Warranty	2 years
Order Information	500742 12G-SDI Repeater (UPC: 627699007426)

## Application Diagram

