



ALF-3GSDI-HD

SDI to HDMI Micro Converter

User Manual

Introduction

The ALF-3GSDI-HD SDI to HDMI Micro Converter is designed to convert HD-SDI and 3G-SDI signals for display on HDMI monitors and displays while maintaining high-quality signal transmission without loss.

Supporting transmission rates up to 2.970 Gbit/s, the converter provides reliable signal conversion for professional broadcast, AV integration, live production, and monitoring applications.

The compact design and SDI loop output make it ideal for extending SDI signals while simultaneously displaying content on HDMI devices.

Features

- Supports HD-SDI and 3G-SDI signal conversion to HDMI
- SDI transmission rates up to 2.970 Gbit/s
- Supports SMPTE 425M, SMPTE 424M, SMPTE 292M, and SMPTE 259M-C standards
- HDMI output for monitors and displays
- SDI loop output for signal extension
- Compact and lightweight design
- Plug-and-play operation
- USB powered

Specifications

Item	Specification
Model	ALF-3GSDI-HD
Input Port	1 x BNC (HD-SDI / 3G-SDI)
Output Ports	1 x HDMI, 1 x SDI Loop Out
SDI Transmission Rates	2.970 Gbit/s
Supported Resolutions	720p, 1080i, 1080p
Power Supply	DC 5V
Power Consumption	5W (Max)
ESD Protection	±8kV (Air-gap discharge), ±4kV (Contact discharge)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Relative Humidity	20% to 90% RH (Non-condensing)
Dimensions	97mm × 55mm × 23mm
Weight	130g

Interface Description

Front / Side Panel Connections

SDI IN

Connect the SDI source device to this port using an SDI cable.

SDI OUT

Connect an additional SDI display or downstream SDI device for signal loop-through.

HDMI OUT

Connect an HDMI display, monitor, or projector using an HDMI cable.

POWER LED (Red)

Indicates that the unit is powered on.

SDI LOCK LED (Green)

Indicates that a valid SDI signal is detected and locked.

USB POWER

Connect the included USB power adapter to power the unit.

Connection Guide

Follow the steps below to install and operate the converter:

1. Connect the SDI source device to the **SDI IN** port using an SDI cable.
2. Connect the HDMI display device to the **HDMI OUT** port using an HDMI cable.
3. If required, connect an additional SDI display or device to the **SDI OUT** port.
4. Connect the supplied USB power adapter to the converter.
5. Once powered, the converter will automatically begin transmitting video signals.

Applications

The ALF-3GSDI-HD is suitable for:

- Broadcast monitoring
- Live event production
- Video editing suites
- Professional AV installations
- Digital signage systems
- Control room environments

Package Contents

- 1 x ALF-3GSDI-HD SDI to HDMI Converter
- 1 x USB Power Supply Adapter
- 1 x User Manual

Safety Notes

- Use only the supplied power adapter.
- Do not expose the unit to moisture or extreme temperatures.
- Ensure adequate ventilation during operation.
- Disconnect power before cleaning the device.