



AVF-1401 Version: 1

## 4-Channel BNC over Fiber Optic Extender Kit, 20km

The LevelOne AVF Video over Fiber Converter series is designed to transmit composite video signals over long distances via optical fibre. On the transmitting side, video signals are digitalized and converted to optical signals, then transmitted over the fibre link to the receiver. The receiver then converts the optical signal back to analogue and displays the transmitted images on a monitor. LevelOne's AVF solutions provide analogue surveillance and signage systems with the high quality images and long-distance transmission achievable through optical fibre, enhancing the capabilities of a traditional deployment or upgrading a legacy system. An ideal solution for analogue surveillance and Video Wall System applications.

### Key Features

- Transmits analogue video signal over single fiber cable
- Uncompressed high quality video transmission
- Transmit up to 20 km without optical attenuation
- No RF interference or signal degradation over optical fiber
- No EMI and electromagnetic interference
- LED indicator status for instance system monitoring
- True Plug & Play design facilitates ease of installation
- -25°C to 75°C operating temperature range

### Specifications

#### System Specifications

**Port:**

1 x FC simplex single-mode fiber  
4 x BNC

**Indicator:**

PWR, LNK, VIDEO

**Wavelength (nm):**

1310nm & 1470-1610nm

**Optical Receive Sensitivity:**

<-26dB

**Impedance (Ohms):**

75Ω composite



**Video Compression:**

CVBS,AHD,TVI,CVI

**Power Input:**

5V/3A

**Bandwidth:**

6.5MHz

**Signal to Noise Ratio:**

>60dB

**Linearity:**

<1.3%DG <1.3°DP

**Bit Error Rate:**

<1×10<sup>-9</sup>

**Optical Transmission Power:**

- 3dB to -9dB

## Features

**General:**

Uncompressed 8 bit video encoding, High-speed synchronous digital transmission technology

Super optical dynamic range, no adjustment needed

Status indication for power supply, optical signal and video

without electromagnetic interference, radio frequency interference and ground current

Safe transmission guaranteed under poor electromagnetic environment

Maximum tolerable link loss for single mode single fiber is 18db

## Performance

**Operating Distance:**

20km

## Environment

**Operating Temperature (°C):**

-20°C ~ +70°C

**Operating Humidity (Non-condensing):**

0~ 95%

## Physical Specifications

**Dimensions (W x D x H mm):**

133 x 174 x 47 mm

**Weight (g):**

1.5kg

## Approval and Compliance

**EMI/EMS:**

CE/FCC

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## Order Information

AVF-1401

## Package Contents

AVF-1401

Power Adapter (x2)

Quick Installation Guide

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