

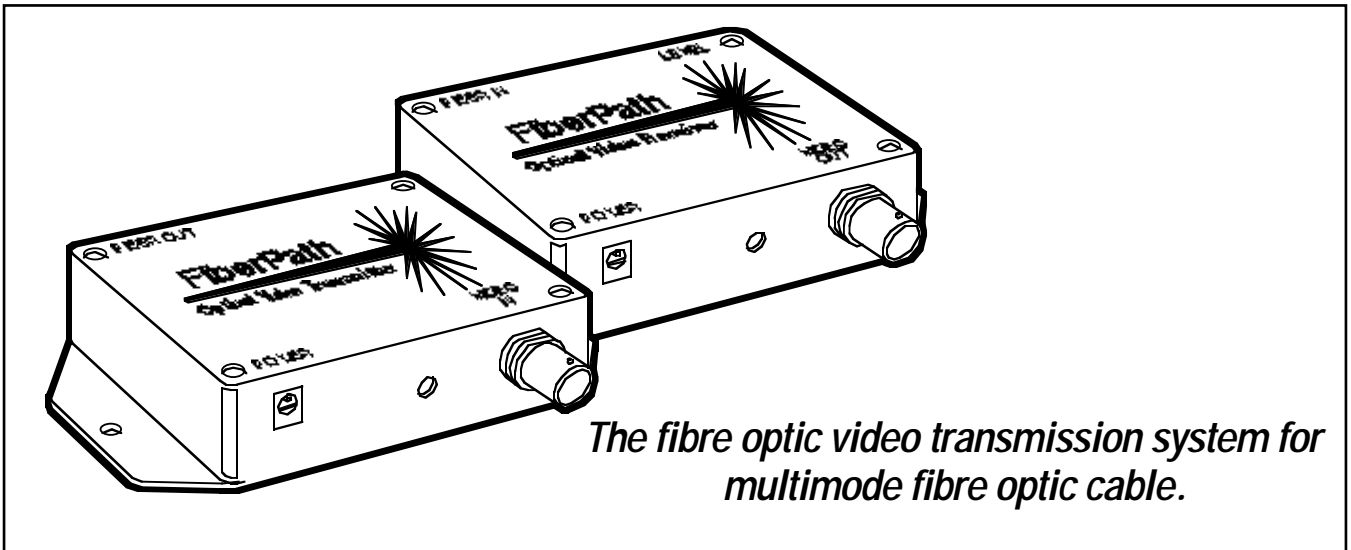


# BLACK BOX®

## NETWORK SERVICES

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Black Box Corporation.

## FIBREPATH



*The fibre optic video transmission system for multimode fibre optic cable.*

### Key Features

- ▶ **Includes a transmitter, receiver, two power supplies, and a users' manual.**
- ▶ **Immune to electrical interference, ground loops, and high voltages.**
- ▶ **Send video—in colour or black and white—up to 1.5 miles!**
- ▶ **Easy installation—all you need is a screwdriver.**
- ▶ **Compatible with all standard analog video formats.**
- ▶ **International versions available.**

Send high-performance video up to 1.5 miles (2.4 km) at an affordable price. The BLACK BOX® FibrePath is a high-quality fibre optic video transmission system designed to transmit colour or black and white video signals over standard multimode fibre cable.

Use it for a variety of applications: videoconferencing, scientific observation, indoor or outdoor security systems, or CCTV.

The complete FibrePath system includes a transmitter, a receiver, and two power supplies. We offer 115-VAC, 220–230 VAC, and 240-VAC powered versions of the FibrePath system, as well as replacement transmitter and receiver units.

Because FibrePath transmits over standard multimode fibre, it's ideal for both indoor and outdoor protected environments. And it's a great alternative to coax cable,

since it's immune to the effects of electrical interference, ground loops, explosive and hazardous environments, water, and high voltages.

The FibrePath system is compatible with all standard analog video formats (including NTSC, PAL, and SECAM) and will operate with all standard 62.5- $\mu$ m multimode fibre optic cable and industry-standard ST® optical connectors.

The transmitters and receivers can be installed easily with a screwdriver and include handy tabs and self-adhesive mounting pads. The transmitter is placed at the camera or source of video to be transmitted, and the receiver is placed at the monitor or device where the video will be received.

To cable the transmitter, plug in the video source's coax cable to the unit's BNC port and plug an ST terminated fibre cable into its optical connector. At the receiver

end, plug your video monitor or other video receiving device into the receiver's BNC port and the fibre cable's ST plug into the optical connector.

To fine-tune the picture, just adjust the LEVEL control on the FibrePath Receiver.

### P

#### **AC444A, AC444AE, AC444AE-UK:**

- (1) FibrePath Transmitter
- (1) FibrePath Receiver
- (2) power supplies
- Users' manual

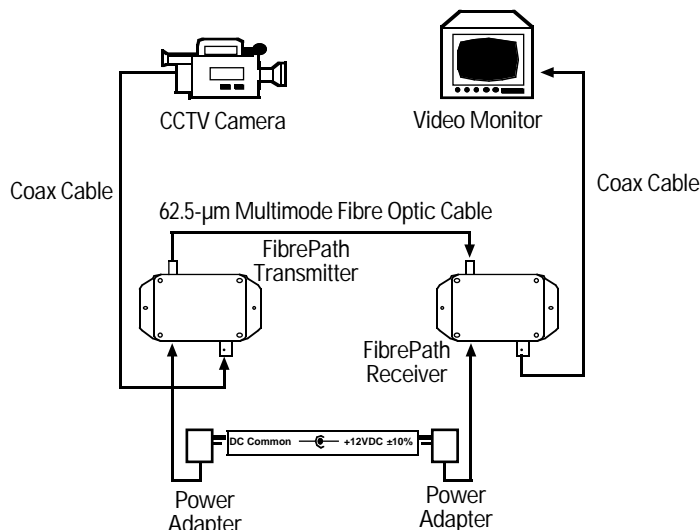
#### **AC445A-TX:**

- (1) FibrePath Transmitter
- Users' manual

#### **AC446A-RX:**

- (1) FibrePath Receiver
- Users' manual

# Typical FibrePath Installation



## Specifications

**Approvals:** FCC Class A, Subpart B of Part 155; CE; the power supply is UL®, CSA listed

**Compatible Optical Cable:** 62.5-µm multimode fibre with industry-standard ST connectors

**Distance (Maximum):** 1.5 mi. (2.4 km)

**Input/Output Voltage:** 1 volt pp (user-adjustable at receiver)

**Input/Output Impedance:** 75 ohms

**Signal/Noise Ratio (per RS-250):** 52 dB minimum

**Differential Gain (per RS-250):** 2% typical

**Differential Phase (per RS-250):** 1% typical

**Optical Wavelength:** 850 nanometers

**Optical Loss Budget (Minimum):** 12 dB

**Connectors:** Each transmitter and receiver unit: (1) ST; (1) BNC (75-ohm); (1) barrel for power

**Temperature Tolerance:** -31 to +167°F (-35 to +75°C)

**Humidity Tolerance:** Up to 95%, noncondensing

**Power:** AC444A: (2) 115-VAC, 60-Hz wallmount adapters;  
AC444AE: (2) 220–230 VAC, 50-Hz wallmount adapters  
AC444AE-UK: (2) 240-VAC, 50-Hz wallmount adapters

**Size:** Each transmitter and receiver unit: 1"H x 2.4"W x 3.8"D (2.5 x 6.1 x 9.7 cm)

**Weight:** Each transmitter and receiver unit: 0.5 lb. (0.2 kg)

## Ordering Information

ITEM	CODE
FibrePath Transmitter/Receiver	
115-VAC, 60-Hz.....	AC444A
220–230-VAC, 50-Hz (Europe).....	AC444AE
240-VAC, 50-Hz (U.K.).....	AC444AE-UK
<i>To replace a FibrePath component, order...</i>	
Transmitter Only.....	AC445A-TX
Receiver Only.....	AC446A-RX
<i>You may also need...</i>	
Simplex Fibre Optic Cable, ST–ST, Custom Lengths.....	EFN062-C
Coax Cable, RG59, PVC (CL2), Custom Lengths.....	ETN59-BNC