

FT86011/FR86011 Fiber Transmitter and Receiver

VIDEO WITH BIDIRECTIONAL AUDIO, DATA, AND CONTACT CLOSURE

Product Features

- 8-Bit Digitally Encoded Video for High-Quality Video Transmission over a Single Fiber
- Two Bidirectional 24-Bit Digitally Encoded Audio Channels with User-Selectable 600-Ohm Balanced or 47K-Ohm Unbalanced Input Impedance
- Bidirectional Data Channel with User-Selectable RS-232, RS-422, RS-485 (2-Wire/4-Wire), Manchester, Bi-Phase, and Coaxitron® Communication
- Bidirectional Contact Closure That Allows a Choice of Normally Open or Normally Closed Outputs
- Multimode Fiber Support for Distances up to 6 km
- Single-Mode Fiber Support for Distances up to 38 km
- Laser Diode for Transmission of Optical Signals
- Patent-Pending Transmission Technology Allowing Coaxitron Control at Full-Distance Capabilities
- Compatible with NTSC, PAL, and SECAM Video Standards
- Designed to Meet NEMA TS 2 and Caltrans Traffic Signal Control Equipment Environmental Standards
- No Performance Adjustments Required
- 12 VDC or 24 VAC Power Supply



- Stand-Alone and Rack-Mountable Modular Design
- LED Indicators for Monitoring of Signal Status, Laser Status, Data Activity, Contact Closure Activation, and Operating Power

The **FT86011/FR86011** fiber transmitter and receiver provide simultaneous transmission of one unidirectional video channel, two bidirectional audio channels, one bidirectional data channel, and one bidirectional contact closure over one optical fiber. The **FT86011** transmitter and the **FR86011** receiver are available in multimode and single-mode versions. When using single-mode fiber, the **FT86011** transmitter and the **FR86011** receiver offer an exceptional optical power budget of 24 dB.

Modular in design, the **FT86011** and **FR86011** units can be rack mounted or can be used as stand-alone modules. Rack mounting is accomplished using the RK5000 Series rack mount chassis. Standalone modules can be placed on a desktop or can be mounted to a wall.

Audio and data modes of operation are user selectable by means of a rotary switch. The **FT86011** transmitter and the **FR86011** receiver can be used with balanced or unbalanced audio signals and allow selection of 600-ohm or 47K-ohm input impedance. Data selection offers a choice of RS-232, RS-422, RS-485 (2-wire/4-wire), Manchester, Bi-Phase, or Coaxitron® communication. Using patent-pending technology, Coaxitron pan/tilt/zoom (PTZ) control data can be transmitted the full distance of the fiber (up to 6 km for multimode fiber and up to 38 km for single-mode fiber).



C2651 / NEW 3-07



International Standards
Organization Registered Firm;
ISO 9001 Quality System

