

## Overview

With the steady transition to SDI outputs in today's high performance broadcast equipment, the ability to extend operating distance while maintaining signal integrity is easily solved using the 601B or 601SB serial digital video fiber link. Production environments designed as digital islands, with audio embedded into the SDI signal are also supported by the 601B and 601SB.

## Applicable Standards

The 601B and 601SB units conform to CCIR 601 and SMPTE 259M standards. The 601B passes the SDI signal with the optional embedded audio signal.

## Superior Diagnostics

The SMARTS™ diagnostic technology provides built-in diagnostic tools including LEDs that monitor the operating status of the video and optical signals.

## Standard Features

- One-way video transmission over one multimode or single mode fiber
- Accommodates serial digital video with imbedded audio
- Conforms to SMPTE 259M and CCIR 601 digital video standards
- SMPTE 310, DVB/ASI compatible
- 10 dB optical budget
- Operating distance 8.9 miles (14 km)
- Standalone configuration

# 1-Channel Serial Digital Video

601B and 601SB



U.S.  
T (561) 998-6100  
T 888-GE-SECURITY  
888-(437-3287)  
F 561 998 6224

Canada  
T 519 376 2430  
F 519 376 7258

Asia  
T 852-2907-8108  
F 852-2142-5063

Australia  
T 61-3-9676-1300  
F 61-3-9646-7005

Europe  
T 44-113-238-1668  
F 44-113-253-8121

Latin America  
T 305-593-4301  
F 305-593-4300

www.gesecurity.com

© 2005 General Electric Company  
All Rights Reserved

## Specifications

Video	601B (Multimode)	601SB (Single Mode)
Channels	1	
Format	SMPTE 259M	
Optical		
Mode	Multimode	Single Mode
Optical Budget*	10 db	17 db
Emitter	LED	Laser
Wavelength	1310 nm	1310 nm
Gain Control	Optical Automatic Gain Control (OAGC)	
Operating Distance**	1.2 mi (2 km)	25 mi (40 km)
Electrical		
Input Power	13.5 VDC regulated	
Transmitter Current Requirement	90 mA	
Receiver Current Requirement	280 mA	
Receiver Power Consumption	3.9 W	
Transmitter Power Consumption	1.3 W	
Optional Power Supply	Model 613P	
Environmental		
Operating Temperature	-40 to 167 °F (-40 to 75 °C)	
Maximum Humidity	95% relative, noncondensing	
Mechanical		
Dimensions (LWD)	3.72" x 4.14" x 1.63" (95 x 105 x 41.5 mm)	
Weight	Standalone .55 lbs (0.25 kg)	
Construction	Aluminum	

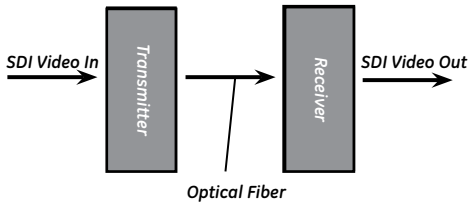
### AGENCY COMPLIANCE



### MADE IN THE USA

Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J

## Related Diagram



## Ordering Information

Use the Configurator below to select the options available for this product.

**601B-□/1B**

**Product Type**  
T Transmitter  
R Receiver

**601SB-□-□/1S**

**Add L**  
When ordering Transmitter units

**Product Type**  
T Transmitter  
R Receiver

\* Optical Budget based on 62.5 μm fiber, for 50/125 μm fiber subtract 3 dB.

\*\* Operating distance is approximate and assumes best fiber. It will be affected by the type and number of splices in the fiber. Refer to update No. T800-005, which can be found at www.gesecurity.com

As a company of innovation, GE Security reserves the right to change product specifications without notice. For the latest product specifications, visit GESecurity online at www.GESecurity.com or contact your GE Security sales representative.  
601B-2006-09-2