Model 2809-TR/2810-REC

S.I. TECH

CCTV - Fiber Optic Video System

S.I.Tech Bit-Driver

2809/2810 VIDEO
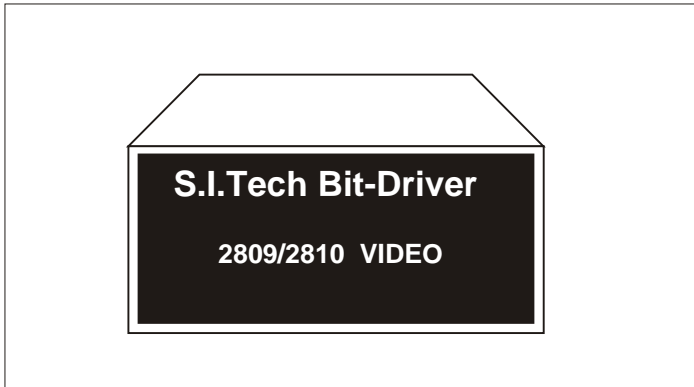
Operation Mode: CCTV video - color or black and white
System Bandwidth: 10 Hz to 15 MHz
Transmitter Input Impedance: 75 ohms, BNC bulkhead jack
Input Voltage: 1 Volt rms
Receiver Adjustment Range: 40:1
Linearity: 1 percent typical
Output Load Impedance: 75 ohms
Operating Wavelength*: 820 nanometers (1300 nm options)
Optical Connectors: ST or SMA receptacle
Operating Temperature: 0 $^{\circ}$C to 50 $^{\circ}$C
Plastic Enclosure: 6" X 6.5" X 2.75" (15.2 X 16.5 X 7 cm)
Weight: 2lbs. (1 kg)
Input Power: 110 VAC 50/60 Hz
220 Volt Version: Model 2809V TR/2810V REC
Card Version: 2379/2380 (3000 Rack)
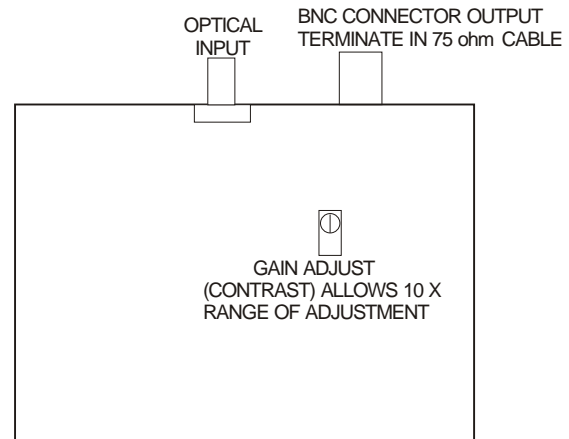
*1300 nanometers is an option for 5 km or longer system

Operating Distance for Fiber Optic Cable

Fiber Size (Microns)	Attenuation dB/Km	Minimum Feet/Meters**	Maximum Feet/Meters
62.5	4.0	0/0	3300/1000
50	3.0	0/0	4000/1200
10 SM	1.0	0/0	66000/10000

SM - Single mode (1300 or 1550 nm option)
** Short lengths of some fiber types can overload the receiver. Longer distance can be used if less bandwidth or higher noise is acceptable. Typical power budget 10dB.

S.I. Tech 2810 and 2310 Fiber Optic Adjustments

OPTICAL INPUT

BNC CONNECTOR OUTPUT TERMINATE IN 75 ohm CABLE

GAIN ADJUST (CONTRAST) ALLOWS 10 X RANGE OF ADJUSTMENT

Note: Adjust gain in receiver preamp for desired output (clips at 2 Vpp with 75 ohm load 4 Vpp open circuit)

How to Order

Model Numbers

2809	1 Ch. Transmitter, Multimode, 110VAC, ST
2809-2	2 Ch. Transmitter, Multimode, 110VAC, ST
2809-3	3 Ch. Transmitter, Multimode, 110VAC, ST
2809-4	4 Ch. Transmitter, Multimode, 110VAC, ST
2809-SM	1 Ch. Transmitter, Single Mode, 110VAC, ST
2809-2-SM	2 Ch. Transmitter, Single Mode, 110VAC, ST
2809-3-SM	3 Ch. Transmitter, Single Mode, 110VAC, ST
2809-4-SM	4 Ch. Transmitter, Single Mode, 110VAC, ST
2809-V	1 Ch. Transmitter, Multimode, 220VAC, ST
2810	1 Ch. Receiver, Multimode, 110VAC, ST
2810-SM	1 Ch. Receiver, Single Mode, 110VAC, ST
2810-V	1 Ch. Receiver, Multimode, 220VAC, ST

All units are in the same size enclosure. Typically 4 channel units are used for R,G,B, & Sync applications.

Specifications subject to change without notice.

TYPICAL APPLICATION

CCTV CAMERA — COAX — **S.I.Tech 2809-TR** — FIBER — **S.I.Tech 2810-REC** — COAX — MONITOR

CCTV CAMERA — COAX — **S.I.Tech 2809-TR** — FIBER — **2380 REC** / **3001 Rack** — COAX — MONITOR

CCTV CAMERA — COAX — **S.I.Tech 2809-TR** — FIBER — COAX — MONITOR