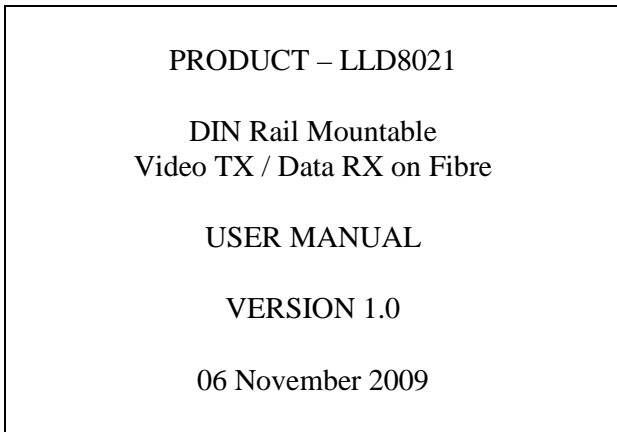


LLD8021u.DOC
 Author: W.D.
 Issue 1.1

USER MANUAL



Product: LLD8021AB	Model:	
Serial Number:	JOB No :	
TEST	CRITERIA	RESULT
Power Indicator	Functional	
Video Indicator	Functional	
RX Data Indicator	Functional	
RS422 Operation	Functional	
Video TX Optic Level	- dBm	
Data RX Optic Level	- dBm	
Budget		

Date: Tested By:

1 PRODUCT DESCRIPTION

1.1 General

The LLD8021 is a Single Channel DIN Rail-mountable Data Receiver and Video Transmitter. Two LLD8021's can be connected via optical fibre to a single LL8023 rack-mount card - which is a two channel Data Transmitter and Video Receiver.

The Data Receiver is used in Video Telemetry Systems, for low speed RS422 data communication over fibre to PTZ cameras. It is also compatible with the LL232, which is an RS232 to fibre interface; with the LL422 or LL8422, which is an RS422 or RS485 to fibre interface; and with the LL8023 two channel data transmitter and video receiver card.

The Video Transmitter converts a composite video signal, received on a BNC connector, to an optical signal that is transmitted onto fibre. When the video signal is present, an led indicator will light up. It is compatible with LL803R three channel video receiver card. The unit can be mounted on a DIN Rail at the PTZ Camera in the field.

1.2 Basic System Description

The main purpose of this unit is to provide a cost effective fibre optic interface for PTZ (Pan Tilt Zoom) camera installations. It basically receives PTZ information for the camera, and transmits the video signal from the camera.

Features

- Repeat data without interference
- Interface directly to LL8023 Dual Channel Data Transmitter and Video Receiver.
- Compatible with standard composite video.

Uses

- Ideally suited for Pan Tilt Zoom camera systems in video applications.

6 ORDERING INFORMATION

LLD8021 [Optic Option][Optic Connector Option]/Data Format Option

Weight - 150 g (max)

Optic Option	Wavelength	Range	Budget distance	Connector
AB	850nm	Short	3.5km	ST

8 NOTES

None.

7 SPECIFICATIONS

7.1 Electrical Characteristics

Power Supply

Power Connector - 2 Pin Screw Terminal
 Supply Voltage - 9 to 18Vdc
 Supply Current - 100mA (max)

Video

Video Input Connector - BNC Female
 Input Impedance - 75 Ohms
 System Bandwidth - 10Hz to 10MHz
 Signal/Noise Ratio - 52 dB minimum

Data

Data Output Connector- 2Pin Screw Terminal
 Data Transmission Standard- RS422 / RS485 (Received Data)
 RS232 (Received Data)

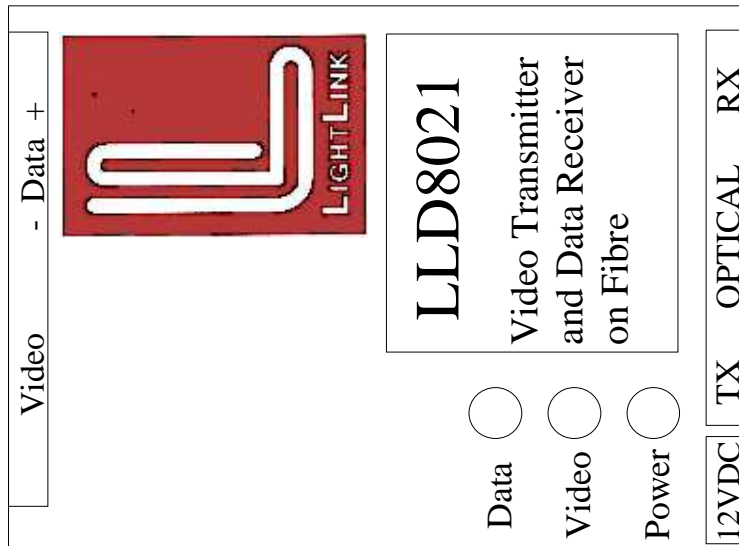
7.2 Optical Characteristics

Connector Type - ST
 Wavelength - 850nm
 Responsivity - 7 mV/μW Typical or 13mV/μW
 Fibre Compatibility - 50/125 μm diameter
 Minimum Data Receive Level- -32dBm
 Minimum Video Transmit Level- -18dBm

7.3 Physical Characteristics

Overall Unit Dimensions - Length - 100mm
 Width - 70mm
 Height - 50mm

9 Figure 1



10 Contact Details

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