

User Manual For Single Channel Din Rail Mountable Composite Video on Fibre Transmitter

LLD801



Model:..... Serial Number:..... Job Number:.....

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Single Channel Composite Video on Fibre Transmitter

1 Introduction

1.1 Features

- Compatible with standard Composite Video
- Compact Din Rail Mountable
- Interface directly with LL802 (Single) or LL803 (Three) Video receivers
- Power and Video Present Indication
- Internal Universal Switch mode Power Supply

1.2 Ordering Information

This unit must be ordered by using the following Order Number Selection table. Replace the 'X', in the left hand column, with the appropriate option selected to get the correct Order Number for the equipment required.

	I	12VDC	Input Power Options
	B	110VAC PSU	
	A	220VAC PSU	
X	B	ST Optical Connection	Optical Connector
X	A	850nm Optic Wavelength, Multi Mode	Optical Wavelength
801		Single Channel Composite Video on Fibre Transmitter	
LLD		Lightlink DIN Rail Mountable	

Example: **OS4104ABAC 120Ω** - 4 Channel E1 Interface in a **Rack Mountable Enclosure** with **850nm Optics with SMA Connectors** with **48VDC PSU** and a **75Ω E1 Connector Module**.

1.3 Package Items

When the box is opened make sure of the contents by checking it using the Order Number.

Also check for damage during shipping. The manufacturer checked all equipment before packing and packed it in protective packaging and thus cannot be held responsible for damage during shipment.

2 System Description

2.1 General

The LLD801 is a miniature single channel Din Rail mountable video on fibre transmitter unit.

This unit is fully compatible with the LL800 sub rack system and the LL802 single channel video on fibre receiver

2.2 Basic System Description

This is a Din Rail mountable unit that plugs directly into a camera.

The unit converts a composite video signal to an optical signal.
This optical signal is transmitted over a fibre.

The unit utilize an 85-220VAC power source.

Uses

- Security systems.
- Long distance noise free video transmission.

3 Installation Procedure

3.1 Unpacking

The system is factory tested and packed in protective packaging.
Inspect the packaging for any visual damage.

The manufacturer is not liable for damage during shipment.

3.2 Power Connection

Before connecting the power to the unit make sure of the ordered power option.
Connection of the wrong input power to the unit may damage the power supply installed in the unit.

For a mains power option a 3way screw terminal would be available, connect as indicated at connector.

The indicators must be in the following state: Power must be on and Video should be off.

3.3 Fibre Connection

Before trying to connect the fibre make sure of the fibre and connector option ordered.
The fibre transceiver module is factory fitted and tested.

Make sure the fibre is of a good quality and the loss over the fibre is within specification of the equipments power budget.

When mounting the fibres make sure not to bend the fibre to sharply.

3.4 Video Connection

By using the BNC connector, connect the Video to the unit.

When the Video signal is present and the power is switched on the Video indication should light up.

4 Maintenance Procedure

No routine maintenance is required on this equipment.

4.1 First Line Maintenance

4.1.1 Instrument and tools required

Optic power meter

Multi-meter

Oscilloscope

4.1.2 Maintenance Procedure

When arriving at a suspect link it is always necessary to ensure that the unit has been correctly coupled and to note the video indicator on the equipment.

The first course of action is to check the power supply.

If the unit is coupled and the supply is correct but the video indicator is not on, disconnect the unit from the camera and observe the change in the video indicator brightness. If there is no change the camera is most probably off or not operational.

Check to see if the camera is switched on. Then make sure that the video signal provided by the camera is correct.

Use the Oscilloscope and measure the video signal. The correct size for the sync pulse is 300mV.

If all these tests have been done and the unit is still not operational the supplier must be notified.

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5 Specifications

Power Supply	110-220VAC	Connector	3Way Screw Terminal Plug
		Supply Voltage	85 to 250VAC 50to60Hz
		Power Dissipation	1Watt
Video		Connector	75Ω BNC
		Specification	Standard Composite Video
Optical Characteristics		Connector	ST
		Wavelength	850nm
		Specification	50/125 μm diameter
	Unit Dimensions (Depth, Width, Height)		58 x 35 x 90mm
	Unit Weight		350g
	Packaged Weight		400g max
	Packaged Dimensions (Depth, Width, Height)		100 x 70 x 50mm

6 Contact Details

Email: support@addvid.co.za

Web: www.addvid.co.za

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7 Test Certificate

Unit Serial Number:		Model:	
Tested By:		Date:	
Measurement Test	Criteria	Result	
Power Supply	85VAC to 220VAC		
Power Consumption	1Watt		
TX Optic Level	- 18dBm		
Functional Tests	Criteria	Results	
Power Indication	Functional		
Video Indication	Functional		
Operational Temperature	-10 to 60°C		