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<p>PRODUCT OS801</p> <p>MINIATURE SINGLE CHANNEL VIDEO ON FIBRE TRANSMITTER</p> <p>USER MANUAL</p> <p>9 JULY, 1999</p>
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USER MANUAL  
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## 1. PRODUCT DESCRIPTION

### 1.1 GENERAL

The Optic Solutions 801 is a miniature single channel video on fibre transmitter unit.  
This is a stand alone unit that plugs directly into a camera and converts the composite video signal to an optic signal.

This unit is fully compatible with the OS800 sub rack system.  
The unit utilise the 9 - 12Volt power supply from the camera.

#### Features

- Compatible with standard composite video.
- Compact design allows conversion in small camera enclosures.
- Interface directly to the OS802 Single channel video receiver or to the OS803R 3 channel video receiver.

#### Uses

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

#### 1.1.1 INDICATIONS

Video - Indicates Video signal present. (Indicator brightness varies with the intensity of the video signal.)

## 2. CONFIGURATION

### 2.1 PRODUCT STOCK CODES.

**OS801TAB** Miniature 1 Channel Video on Fibre Transmitter with 850nm optics and ST optic connector.

### 2.2 VERSION HISTORY

This is the original version of this unit.

## 3. PREPARATION FOR USE

### 3.1 UNPACKING

Check for physical damage caused during transportation. Return any damaged equipment.

#### 3.1.1 Configuration of the unit.

This unit needs no configuration.

### 3.1.2 Installation.

Connect the power cables to the camera power supply. Check that the cable with the red marker is connected to the positive side of the supply.

Connect the BNC connector at the end of the coax cable mounted on the unit, to the camera video output connector.

Connect the Fibre to the Optical Out connector on the unit.

## 4. OPERATOR'S INSTRUCTIONS

The unit needs no operator intervention to function.

## 5. MAINTENANCE INSTRUCTIONS

No routine maintenance is required on this equipment.

## 6. FIRST LINE MAINTENANCE

### 6.1 Instruments and tools required

Optic power meter  
Multi-meter.  
Oscilloscope.

### 6.2 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 of 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 the link still does not work then the unit is faulty and should be replaced.

## 7. PHYSICAL AND ELECTRICAL SPECIFICATION

### 7.1 Electrical

Power Connector:	Marked Wires
Input Voltages:	9 - 12VDC unregulated
Video Input Connector	BNC Male - 75Ω
System Bandwidth:	100Hz to 10MHz
Differential Gain:	2% typical
Differential Phase:	3° typical
Supply Current:	Max: 81mA
	Min: 70mA
	Avg: 75mA

## 7.2 Optic

Optic Output:	Avg:	-17dB With video signal connected.
	Connector:	ST
Emission Wavelength:		820nm
Fibre Computability:		50/125µm

## 7.3 Physical

Depth: 15mm	Height: 45mm	Coax+BNC Lenght:	450mm
Width: 30mm	Weight: 0.7Kg		

## 7.4 Environmental Conditions

Temperature:	0 - 45°C
Humidity:	0 - 95% non condensing.

## 8. Ordering Information

Model Number: OS801AB - Miniature Single Channel Video to Fibre Transmitter with 820nm Optic.