

OS803T\_U.DOC  
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PRODUCT - OS803T  
3 CHANNEL VIDEO ON FIBRE  
TRANSMITTER WITH AGC

USER MANUAL

VERSION 1.0

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## USER MANUAL

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## 1. PRODUCT DESCRIPTION

### 1.1 General

The OS803T is a three channel Video to Fibre Transmitter unit.

This unit converts an composite video signal that is received from a BNC connector into an optical signal that is transmitted into a the Fibre. When the optic signal is present an led indicator will light up. Each card uses 3 Optic Transmitters

This unit is designed to fit into a OS800 19" sub rack system. The card is a standard eurocard size.

This unit operates autonomously.

### 1.2 Basic System Description

The unit consists out of 3 video to fibre transmitters and one voltage regulating circuit.

The power for this unit comes in trough an edge connector at the back of the unit. This edge connector plugs into a OS800 frame that is fitted with the correct backplane edge connectors.

Only one of the video to fibre transmitters is described due to the fact that the other two are exactly the same.

The Video signal is received by an BNC connector on the back of the card. The video input is 75Ω terminated.

This signal is the fed into a video to fibre converter.

On the output stage the video signal is converted to an optical signal and transmitted into the fibre on the front of the card.

#### Features

- Compatible with standard composite video.
- Compact design allows large concentration of video signals.
- Up to 3 channels per card.
- Multiple cards fit into OS800 - 19" rack system.
- Interface directly to the OS802 Single channel video receiver on fibre.

#### Uses

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

### 1.3 Indications

Video signal                    - Indicates Video signal present.

## 2. PRODUCT STOCK CODES

**OS803TAB** 3 Channel Video on Fibre Transmitter with 850nm optics and ST optic connectors.

## 3. PREPARATION FOR USE

### 3.1 Unpacking

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

### 3.2 Configuration of the links.

No links to be configure.

### 3.3 Installation.

It is not necessary to remove the cards from the sub rack.

Connect the fibres to the front of the card taking care not to bend the fibres.

Connect the BNC connectors to the back of the card.

## 4. OPERATOR'S INSTRUCTIONS

The unit needs no operator intervention to function. If a fault arises, it is necessary to observe the alarm indications and to perform such procedures as described in the first line maintenance chapter.

## 5. MAINTENANCE INSTRUCTIONS

No routine maintenance is required on this equipment.

### 5.1 First line maintenance.

#### 5.1.1 Instruments and tools required

Optic power meter

Multi-meter.

Oscilloscope.

#### 5.1.2 Maintenance procedure

When arriving at a suspect unit it is necessary to check that all connections are correctly made.

Check that all fibre connectors are plugged in correctly and that the fibre is undamaged.

The first thing to check after that is the power supply. Check that the power to the OS800 is switched on. Then check the OS800 Power Supply for the voltage indicators(+V and -V) on the frontpanel. If none of the voltage indicator are working check the fuse on the back of



Power Dissipation - 3 Watt (max)

### Video Input

Video Input Connector - BNC Female  
Output Impedance - 75 Ohms  
System Bandwidth - 100 Hz to 10 MHz  
Signal/Noise Ratio - 52 dB minimum  
Differential Gain - 2 % typical  
Differential Phase - 2° typical

### 7.2 Optical Characteristics

Connector - ST or SMA  
Reception Wavelength - 820 nm or 1300nm  
Output Power - -18dB With video signal connected.  
Fibre Compatibility - 50/125 µm diameter

### 7.3 Physical Characteristics

Space Consumption in 19" rack - rack height x 25 mm  
Overall Unit Dimensions -  
Length - 171 mm  
Width - 128.5 mm with frontplate for frame  
Height - 25 mm with frontplate for frame  
Weight - 150 g (max)