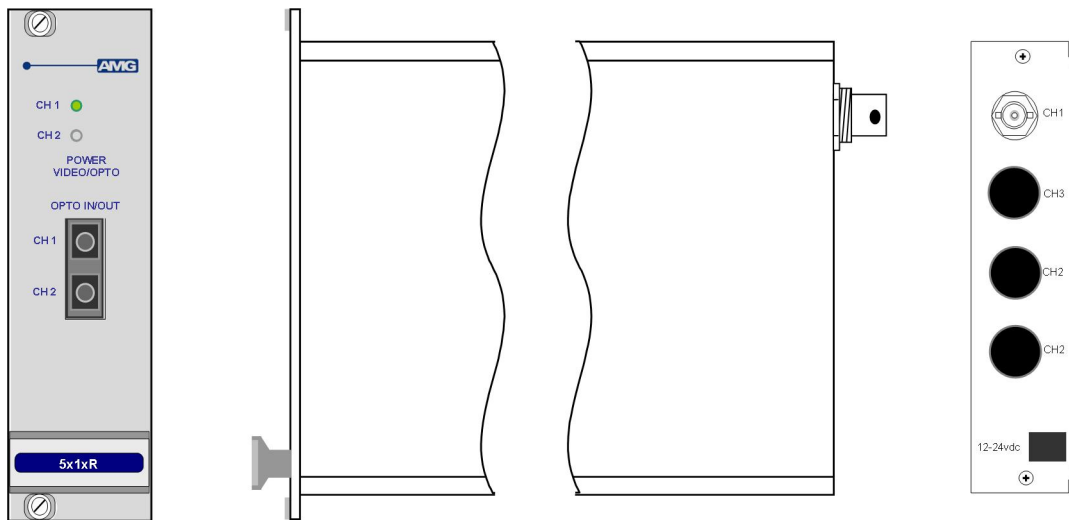


## Single Channel Video Transmit Unit for a Multimode Optical Fibre Link



The **AMG5611R** is a compact standalone one channel video transmit unit designed to transmit 1 video signal over a Multimode optical fibre.

The **AMG5611R** is designed to plug into an **AMG2005** or **AMG2009** subrack, which in turn fits into a 19" rack system.

The **AMG5611R** is designed to operate with an **AMG5612 / AMG5612R** single channel or **AMG5622 / AMG5622R** dual channel video receive unit in a point to point configuration. The R suffix in the partno. indicates a rackmount configuration.

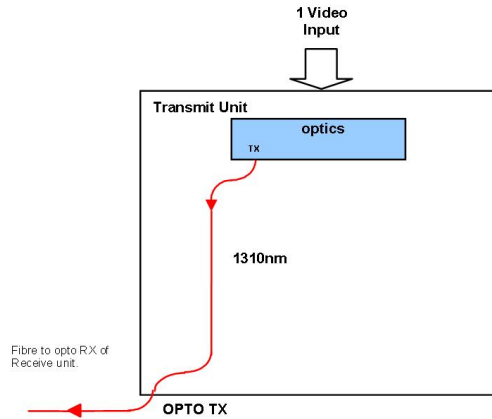
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# Introduction

## Unit Functional Schematic

The **AMG5611R** transmits 1 video signal to the **AMG5612** receive unit.



## Optical Connection

The **AMG5611R** connections are illustrated in the following example which shows a **AMG5611R** transmit unit together with an **AMG5612R** single channel rackmount receive unit configured as a point to point system.

### 1 Channel Video



## **Connections**

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### **Video Input Connections**

No. of channels ..... 1  
Connector ..... 75 ohm BNC Socket.  
Input Impedance ..... 75 ohm terminated.  
Input Level ..... 1 volt p-p nominal  
Frequency Response..... 10Hz to 7MHz.

### **Optical Connections**

No. of Optical Connections ..... 1 per video channel  
Minimum Optical Fibre ..... Multimode 50/125 or 62.5/125\*\*  
Connector Type ..... SC/PC

Minimum Optical Launch Power ..... -10dBm  
Transmit Wavelength ..... 1310nm

Optical Link Dynamic Range ..... 20dB.

\*\*Note: the transmission distance is limited by the bandwidth of the Multimode optical fibre. The optical data rate is 155Mbps/s, which may restrict operation to a maximum fibre length of 7km, although in most cases the units will operate successfully over longer fibre lengths. It is advisable however for distances greater than 7km, to have the optical fibre tested.

### **Power Connection**

Power supply ..... From plug in connection on the AMG2009 or AMG2015 subrack  
Power consumption ..... 1.5 Watts max.

## **Front Panel Indicators**

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### **Power LED Video only**

|                            |       |   |                               |
|----------------------------|-------|---|-------------------------------|
| Power / Video / Opto ..... | Green | - | Video input.                  |
|                            | Red   | - | Unit powered, no Video input. |
|                            | Off   | - | No power applied to unit      |

## **Physical Information**

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### **Dimensions**

Height.....3U Plug-in  
Width.....7HP  
Depth .....170mm excluding connectors  
Weight.....200grams

### **Mounting Details**

The unit is designed to be mounted within an AMG2009 or AMG2015 Subrack on standard card guides.

## **Safety**

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AMG Optical Fibre Products use Class 1 laser systems in accordance with EN 60825-2:2000.

It is always advisable to follow good practice when working with optical fibre systems. This includes:

- Do not stare with unprotected eyes or with any unapproved collimating device at fibre ends or connector faces, or point them at other people.
- Use only approved filtered or attenuating viewing aids

For other safety issues and advice on good practice associated with optical fibre systems, please see EN 60825-2:2000 or your local safety officer.

## **Maintenance and Repair**

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There are no user serviceable parts within AMG products. See unit data sheet for full specification.

In case of problem or failure, please call your local support centre or contact: **AMG Systems Ltd.** at 3 The Omega Centre, Stratton Business Park, Biggleswade, Beds., SG18 8QB, UK.

|                   |                            |
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