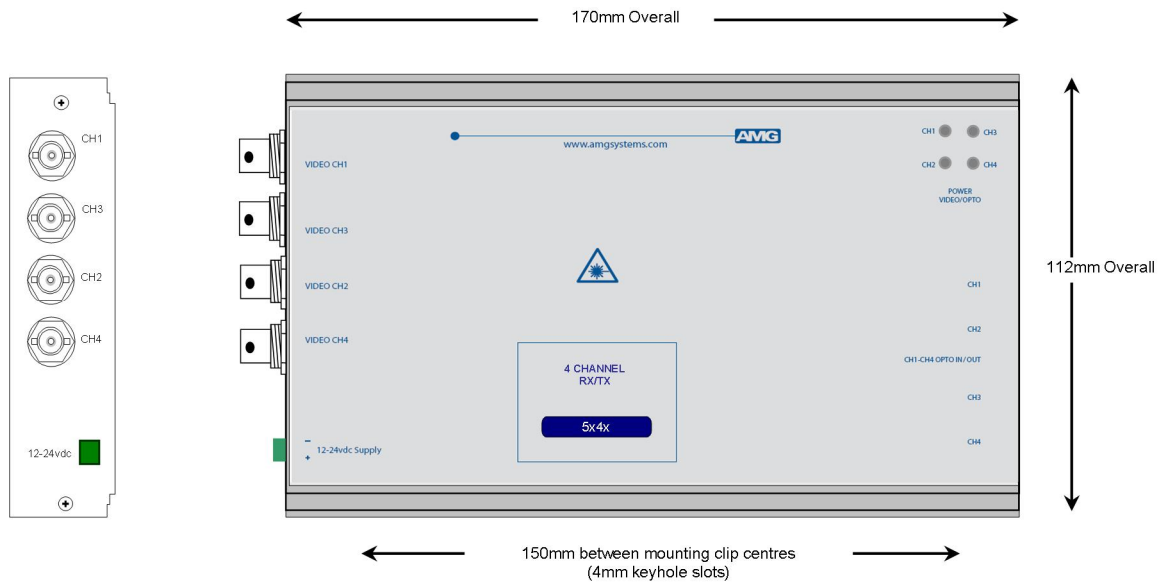


# AMG5741 Instruction Manual

## Quad System with 4x Independent Channels each of : [Single Channel Video Transmit Unit for a Singlemode Fibre Link]



The **AMG5741** is a **QUAD** standalone system which provides four independent channels, each designed to transmit one video signal over one Singlemode optical fibre. i.e. a total of four optical fibres.

The **AMG5741** is designed to be powered using an **AMG2001** standalone power supply.

The **AMG5741** is designed to operate with the **AMG5742** or **AMG5742R** four channel video receive unit in a point to point configuration. The R suffix in the partno. indicates a rackmount configuration.

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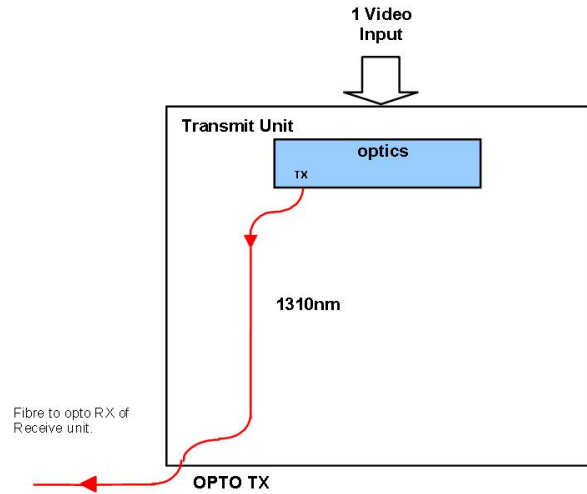
## Introduction

### Unit Functional Schematic

The **AMG5741** provides four independent, transmit channels.

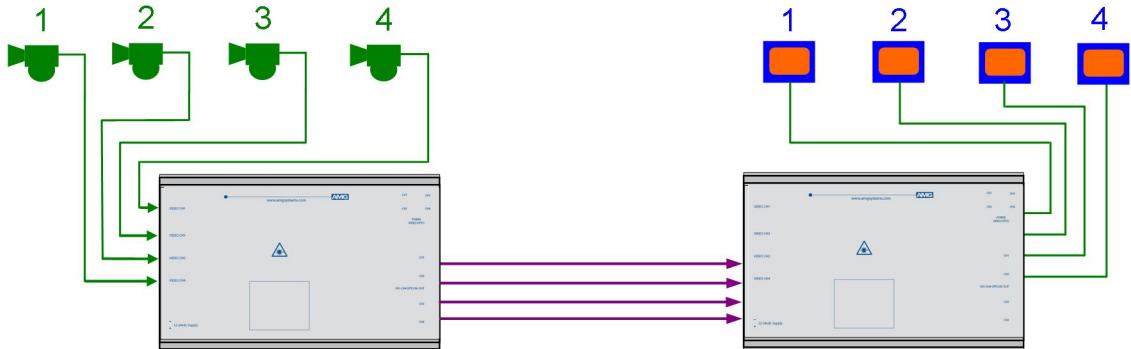
Each channel transmits one video signal to one of four corresponding receive channels of an **AMG5742** receive unit.

The schematic diagram shows one of the four available channels of the **AMG5741**



### Optical Connection

The **AMG5741** connections are illustrated in the following example which shows an **AMG5741** four channel transmit unit together with an **AMG5742** configured as a quad channel point to point system.



## Connections

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### Video Input Connections

No. of channels .....4 independent video channels  
Connectors .....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  
Optical Fibre .....Singlemode  
Connector Type .....SC/PC  
  
Minimum Optical Launch Power .....-10dBm  
Transmit Wavelength.....1550nm  
  
Optical Link Dynamic Range .....20dB.

### Power Connection

Connector Type .....Removable 2-pin, 3.81mm, Screw Terminal  
Connector Partno.....Phoenix 1803578  
Supply Voltage.....+12 to +15 Volts DC  
Maximum Power .....2.5 Watts

## 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 ..... 112mm  
Width ..... 170mm (excluding connectors)  
Depth ..... 35mm  
Weight ..... 600grams

### ***Mounting Details***

The AMG unit is supplied with a clip-on mounting bracket which should be attached to a panel or wall using 2 off 4.0mm screws, see diagram on page 1 for dimensions. The unit is clipped into the mounting bracket, and is then held firmly in position.

### ***Removal / replacement from / to the Case***

Note: - The AMG unit PCB is static sensitive. Handle with proper care and use normal electrostatic discharge (ESD) procedures. Use properly grounded protection (for example, wrist straps) when handling the PCB out of the case.

To remove the PCB from the case for example to access a Low Speed Data mode switch, remove the 2 fixing screws on the rear panel and slide the PCB sufficiently out of the case to enable access to the switch.

To replace the PCB into the case, slide the PCB gently into the case, if necessary aligning the board with the appropriate slots.

## ***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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