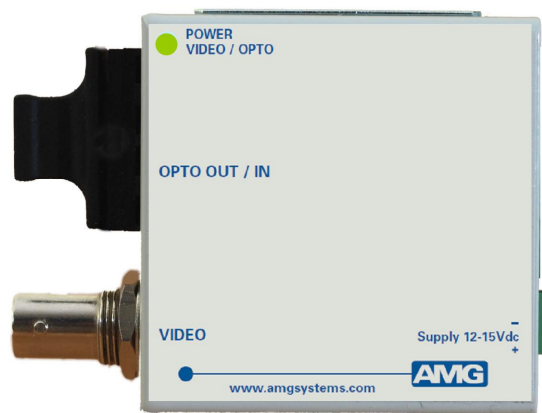# *Single Channel Video Receive Unit for a Singlemode Fibre Link*

The **AMG5712** is a standalone system designed to receive one video signal over a Singlemode optical fibre.

The **AMG5712** is designed to be powered using an **AMG2001** standalone power supply.

The **AMG5712** is designed to operate with an **AMG5711** standalone video transmit unit in a point to point configuration.
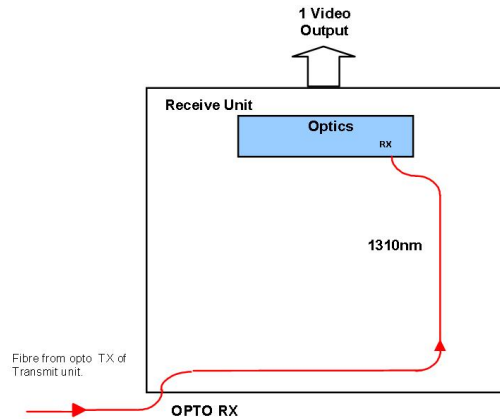
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Introduction

Unit Functional Schematic

The **AMG5712** receives 1 video signal from an **AMG5711** transmit unit.

Optical Connection

The **AMG5712** connections are illustrated in the following example which shows an **AMG5711** single channel transmit unit together with a **AMG5712** configured as a point to point system.

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Connections

Video Output Connection

Connector ....75 ohm BNC Socket.
Output Impedance ....75 ohm terminated.
Output 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 ....SC/PC

Primary Optical Sensitivity...................-30dBm
Receive Wavelength............................1310nm

Minimum Optical Dynamic Range ....20dB.

Power Connection

Connector Type ....Removable 2-pin, 3.81mm, Screw Terminal
Connector Partno................................Phoenix 1803578
Supply Voltage....................................+12 to +15Vdc
Maximum Power ....1.5 Watts

Front Panel Indicators

Power LED

Power / Video / Opto .... Green   -   Video present & opto sync.
                                                        R/G   -   Opto sync. but no video present.
                                                        Red   -   No opto sync.
                                                        Off   -   No power applied to unit.

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Physical Information

Dimensions

Height...56mm
Width..55mm (excluding connectors)
Depth 25mm
Weight...200grams

Mounting Details

The unit is designed to be mounted using the clip holder supplied, which can be fixed to a wall or panel using 2 off 4mm screws.

Safety

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

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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