AMG5600 & AMG5700 SERIES

[STANDALONE]

Single Channel Fibre Optic CCTV Transmission Solutions

The AMG5600 and AMG5700 Series are designed for low cost, point-to-point single channel transmission of video and associated multiple low speed data/audio/ alarm channels.

[RACKMOUNT]   [MINI]

Single-mode Multi-mode	Video up to 4x	Data 232/422/485	Contacts In/Out	Audio In/Out	Temp –40°C~+74°C

/ OVERVIEW

The system provides high quality, low cost transmission of uncompressed video signals. The video is transmitted in full bandwidth digital format ensuring optimum transmission performance regardless of distance. As no compression of the video is used, there is no latency or compromise on quality.

The range has built in AGC (automatic gain control) with a wide dynamic range and 10-bit digitisation to provide true 'plug & play' capability.

The products come in a variety of channel options in mini, standalone and rackmount formats to ensure maximum system versatility. Dual optical redundant options and Data only transmission units are also available.

The AMG5600 is designed for multimode fibre, whilst the AMG5700 is designed for singlemode fibre.

Please Note: The AMG dual optical redundancy does not utilise mechanical switches or couplers, and both transmission paths are continually monitored. The new data expansion cards offer transmission of up to 4 additional data channels or 18* unidirectional Alarm channels per video channel.

/ FEATURES

— Mini, standalone and rackmount formats for minimum space usage

— Removable screw or spring terminal data connectors

— Plug in module for the AMG2009 & AMG2015 allowing the ability to mix with other products in the AMG range

— "Up the Coax" ** data transfer available on some video & data modules

— Multiple data options available via auxiliary data channels

— Up to 18 uni-directional Alarms available

— Dual redundant options available

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Specifications.

Video.

Compression	None, uncompressed
Input/output level	1V p/p, +3dB
Input/output impedance	75Ω unbalanced
Frequency Response	10Hz to 7MHz
Differential Gain	1%
Differential Phase	1°
Signal to Noise Ratio	67dB minimum
Video Connector	BNC
Video Standard	NTSC/PAL/SECAM
Video Sample Rate	28MHz

Data.

Data rate	Maximum 512kb/s
Interface options	RS-485/RS-422/RS-232
Data connector	Removable screw/spring terminal
Up the Coax	Pelco/Panasonic

Alarms.

Input circuit	330Ω pull-up to +3V3
Output current	150mA
Output voltage	125Vac/dc

Optical.

Wavelength	1310 / 1550 nm
Fibre	Singlemode or Multimode
Optical connector type	SC-PC
Path loss	19dB
Path loss HP version	34dB

General.

Operating Temperature	-40°C to +74°C
Operating humidity	0 to 95% non-condensing
Indicators	Front panel LED
EMC	CE approved
MTBF	>250,000hrs

Power requirements.

Voltage	+12V to +15V$_{DC}$
Power	
Single	2.0W
Dual	3.0W
Quad	3.5W

Mechanical.

Weight	
Mini	150g
Standalone	500g
Rackmount	550g
Dimensions	
Mini	55 × 55 × 26mm
Standalone	110 × 172 × 35mm
Rackmount	3U x 7HP x 172mm

Auxiliary Data Channels.
Audio.

Input level	-40dBm - 0dBm
Input overload level	+6dBm
Input impedance	10kΩ / 600Ω
Output impedance	600Ω
Frequency response	10Hz to 20KHz

Alarms.

Input circuit	1kΩ pull-up to +3V3
Output	
Interface*	NPN, open collector
Current sink	250mA
Voltage maximum	+24Vdc

* Note : AC / high voltage / current output version available, please contact AMG for details

Data.

Interface options	RS-232, RS-422/485, TTL, 20mA
Lonworks option	Echelon FTT-10A
Data Rate	Maximum 115kb/s

Recommended PSUs.

Standalone	AMG2001	15V$_{DC}$ @ 1A standalone PSU. For Indoor use only.
Rackmount	AMG2015	19" Subrack, 12 Slot c/w PSU
	AMG2015-DR	19" Subrack, 12 Slot c/w dual PSU

Notes.

* 4 uni-directional contact closures utilises 1 data channel.
** For "up the coax" data check with AMG to confirm compatibility.

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Part Numbers.

TRANSMITTER Tx.

Mini.

AMG56/5711	Video only Tx
AMG56/5713	VTx + Bi-directional Data + Bi-directional Alarm
AMG56/5715	VTx + Bi-directional Data + 2 Uni-directional Alarms

Standalone.

AMG56/5721	Dual VTx
AMG56/5723	Dual VTx + Bi-directional data + Bi-directional Alarm
AMG56/5725	Dual VTx + Bi-directional data + 2 Uni-directional Alarms
AMG56/5741	Quad VTx

Rackmount.

AMG56/5711R	Video only Rx
AMG56/5713R	VTx + Bi-directional Data + Bi-directional Alarm
AMG56/5715R	VTx + Bi-directional Data + 2 Uni-directional Alarms
AMG56/5721R	Dual VTx
AMG56/5723R	Dual VTx + Bi-directional data + Bi-directional Alarm
AMG56/5725R	Dual VTx + Bi-directional data + 2 Uni-directional Alarms
AMG56/5741R	Quad VTx

RECEIVER Rx.

Mini.

AMG56/5712	Video only Rx
AMG56/5714	VRx + Bi-directional Data + Bi-directional alarm
AMG56/5716	VRx + Bi-directional Data + 2 Uni-directional alarms

Standalone.

AMG56/5722	Dual VRx
AMG56/5724	Dual VRx + Bi-directional data + Bi-directional alarm
AMG56/5726	Dual VRx + Bi-directional data+ 2 Uni-directional alarms
AMG56/5742	Quad VRx

Rackmount.

AMG56/5712R	Video only Rx
AMG56/5714R	VRx + Bi-directional Data + Bi-directional alarm
AMG56/5716R	VRx + Bi-directional Data + 2 Uni-directional alarms
AMG56/5722R	Dual VRx
AMG56/5724R	Dual VRx + Bi-directional data + Bi-directional alarm
AMG56/5726R	Dual VRx + Bi-directional data + 2 Uni-directional alarms
AMG56/5742R	Quad VRx

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