



## MM and CM Series

## DATA SHEET

Standard and High Resolution Colour and B&W Range of Board Cameras



- Large range of models
- High resolution and Standard resolution
- 1/4 " IT CCD
- 2.0mm, 2.5mm, 3.8mm, 6.0mm, 8.0mm Fixed glass lens
- 2.9mm Pinhole lens
- 2.0-6.0mm, 3.0-6.0mm, 2.8-10.0mm auto iris Varifocal lens
- Auto white balance (Colour version)
- Backlight compensation
- Automatic gain control

*small, discreet and high sensitivity board camera range with built in computer lenses*

Board cameras are component level B&W or Colour cameras without a casing or housing. Due to their extremely small size, they have many useful applications from video door entry systems to covert surveillance with pinhole lenses.

All of the board cameras are equipped with a high quality 1/4" IT CCD providing high sensitivity and performance in the most demanding of conditions

### *Models available in the range*

MM212	B&W Standard resolution, 12VDC
MMH212	B&W High resolution, 12VDC
CM212	Colour Standard resolution, 12VDC
CMH212	Colour High resolution, 12VDC

*Various lens options of the board camera available:*

- CS - CS mount (no lens)
- L20 - with built in 2.0mm lens, F2.0
- L25 - with built in 2.5mm lens, F2.0
- L38 - with built in 3.8mm lens, F2.0
- L60 - with built in 6.0mm lens, F2.5
- L80 - with built in 8.0mm lens, F2.0
- P29 - with built in 2.9mm Pinhole lens, F4.5
- V26A - with built in 2.0 - 6.0mm Varifocal lens, F1.6-360
- V36A - with built in 3.0 - 6.0mm Varifocal lens, F1.2-360
- V310A - with built in 2.8 - 10mm Varifocal lens, F1.2-360





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### TECHNICAL SPECIFICATION

Model	CMH212	CM212	MMH212	MM212
TV System	PAL		CCIR	
Image sensor	1/4" IT CCD			
Effective picture elements	752(H) x 582 (V) pixel	500(H) x 582 (V) pixel	752(H) x 582 (V) pixel	500(H) x 582 (V) pixel
image output	1.0 V (p/p) / 75			
Resolution (Horizontal)	480 TVL	330 TVL	580 TVL	380 TVL
Min. illuminance	< 2.0 Lux (F1.2)	< 1.0 Lux (F1.2)	< 0.2 Lux (F1.2)	< 0.1 Lux (F1.2)
S/N ratio	>50dB			
$\gamma$ characteristics	0.45			
Iris control	DC/AES			
White balance	Auto tracking white balance		N/A	
Power supply	12 Vdc			
Power consumption	< 3.5W		< 3.2W	
Operating conditions	-10 to +50 °C, 80% relative humidity			
Storage conditions	-20 to +60 °C, 90% relative humidity			
Dimensions	32(W) x 32(H)mm x 1			
Weight	< 10g (Excluding lens holder and cables)			

Features and specifications are subject to change for further improvement without any notice

