



# Hi-Res



## Application Notes

BBV & MAD CCTV have jointly produced a complete high resolution solution for specifications requiring a far higher degree of accuracy than can be provided with a normal pan tilt head receiver:

Part number	Description
Hi-Res-Homburg	Hi Res 45kg pan & tilt head incl housing & receiver
Hi-Res-Topper	Hi Res 16kg pan & tilt head incl housing & receiver

The Hi-Res solution enables long distance video tracking and people identification at 1000m plus. Applications include airports and border control, harbours, vehicle embedded systems and other sensitive area surveillance.

The receiver and MAD head are connected via a simple 6 wire solution: 2 cores for power, 2 for data and 2 for video. This means the system is quick and easy to install.

The receiver can be controlled via an RS422/485 network, this can be daisy chained or star wired, and there is an on screen menu for commissioning the system and diagnostics. The display can be local or remote.

- Supply voltage is either 115V ac or 230V ac
- Outputs either supply voltage or 24V ac
- 6 wire connectors for easy installation
- Revolutionary preset technology with 12 bit resolution for greater accuracy
- Receiver mountable at base of pole
- Supports 14 different protocols
- Compatible with lenses with iris override and x2 converters
- Active motor drive system (ensures head stays on preset positions)



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## Technical specification

Power supply	230V ac or 110V ac
Max load	5A @ 230V (1150 W)
Receiver current draw	Maximum of 100VA max
Fuses	Auxiliary fuse F2 5A T (20mm ceramic cartridge) Total maximum of pan/tilt/lens and 24V ac auxiliary is 100VA
Outputs	Auxiliary outputs for wash/wipe/lights (1000W max) Driven at supply voltage or 24V ac selectable by SW2
Video input	1V p-p 75Ω terminated input via BNC socket
Video output	1V to 4V p-p 75Ω impedance via BNC socket Video launch amplifier gain locally & remotely adjustable Zoom and focus – adjustable between 6 – 12V dc Inching speed – adjustable between 0 – 12V dc. 1 second inching built in.
Lens drives (remotely adjustable)	Iris output – can be set either direct drive for 3 motor lens or auto iris override voltage. In auto-iris mode, the output returns to the preset level 15 seconds after manual iris control. Preset level is adjustable. Each output has red and green LEDs to indicate direction and voltage.
Presets Lens 10 bit resolution Head 12 bit resolution	Inputs are provided for pan, tilt, zoom & focus preset feedback pots. Up to 32 full scene presets can be stored within the receiver, i.e. pan, tilt, zoom and focus. (16 with BBV & Baxall up the coax protocols)
Alarm facilities	8 alarm inputs from volt free normally closed contacts Output is 1 normally closed volt free contact which can be set to operate either immediately or when the preset is approached after an alarm input. NOTE: The output is used for iris override when using Fujinon or Pentax lens mode.
Additional facilities	Software random pan Sequential preset patrol with individual programmable preset dwell. Datum – return to preset 1, start preset patrol or random pan after menu programmable duration of inactivity.
Features	LED readout for continual system status. Programming menu with on screen display. 12V dc/500mA unswitched output provided. Colour coded outlets – live, neutral, earth and low voltage.



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