



CH-HPC2DB Dual Hybrid Camera



The CH-HPC2DB is dual camera with one wide angle lens, generally for reversing and one narrower angle lens, normally used for rearview vision while driving.

Comprising two individual, *hybrid* cameras in a custom made, stainless steel bracket this allows easy adjustment of both cameras for optimum viewing. When set in *AHD* video mode these cameras have 1.2MP output for super high quality images for the best viewing quality available.

The *Chipatronic Hybrid Series* cameras are programmable to suit the required display system and can be used with virtually any vehicle display/monitor by programming the cameras to suit.

Cameras can be supplied pre-configured at the time of supply as long as the requirements have been provided or they can be setup at the time of installation by a Chipatronic installation partner. Programming can only be carried out by authorised partners as special hardware is required, please consult with your supplier/installer if there are any questions regarding this.

Where an existing monitor or in-dash system is being used the cameras would normally be set to *CVBS* video mode as most systems will only support this so the video quality will not be as high but will still be the best quality available from standard *CVBS*. The cameras are also easily changed from *PAL* to *NTSC* to suit the display.

When a completely new system is being installed we recommend using a *Chipatronic Hybrid Series* monitor which will automatically default to the video mode set and in this case *AHD* should be used. All *Hybrid* monitors have high resolution LCDs for improved picture quality which is best utilised with *AHD* video.

INSTALLERS Please refer to the *Chipatronic Hybrid Series* programming instructions for details on how to change the camera settings.

Accessories: CH-4F2M Dual camera 2:1 input adaptor is included

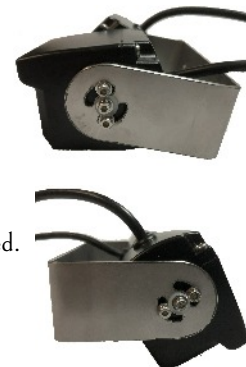
CH-4M2FX 1:2 output adaptor for dual cameras is available as an optional accessory

CH-4MRCA 2 RCA output adaptor is available as an optional accessory. CH-DCMPC power connector to suit is also available.

INSTALLATION

Installation will normally be on the rear of a caravan or motorhome with the reversing camera facing down and the rear-vision camera facing out.

- Remove the cameras from the bracket if necessary, please put the screws and centre shaft with rubber disk in a safe place for later. Mount the bracket into place using suitable fixings. **!** Before final mounting, check that the adjustment slots are correct as per the photos to the right as the cameras will normally face down.
- Insert the small shaft with the rubber disk into the centre hole between the 2 cameras and re-insert the cameras into the bracket and replace the screws in the outside.
- To adjust the camera positions, loosen the screws holding the cameras to the bracket and rotate the camera body as required.
- The reverse camera should be able to show the area immediately behind to check for dangerous situations or hazards.
- The rear-vision camera should be able to show the road behind so that traffic can be seen.
- It is recommended to use the **CH-CTAHD5** camera tester for this setup before the cabling is connected as this will enable adjustments to be made without having the tow vehicle present and connected to the van.
- Once the camera positions have been set, tighten the screws to fix the cameras to the bracket taking care not to over-tighten these and strip the thread.



CABLING

The **CH-HPC2DB** is supplied with a dual camera 2:1 adaptor **CH-4F2M** which allows the use of a standard Chipatronic cabling systems. Connect the two cameras to the adaptor and then connect the adaptor to the cable.

When connecting to the display the video signals must be split back into two separate cables. If using a 4 pin monitor, please use the **CH-4M2FX** and if connecting to a head unit or RCA input monitor, please use the **CH-4MRCA** with power connected (**CH-DCMPC** is the standard DC connector).

⚠ Never cut the camera cables. Cutting the camera cables will void the warranty immediately.

These cameras have been tested with standard Chipatronic cables and accessories but cannot be guaranteed to work as designed with other products.