

Colour Display Controller for EPSON HX-20



The Colour Display Controller, manufactured by Oval Automation, is now available to all HX-20 Users for connection to the PAL colour TV system in the UK and to separate

- Fully compatible with HX-20.
- Responds to all display commands of HX-20.
- Screen display is 32 columns by 16 lines.
- Four colour graphics on a 128×64 pixel matrix.
- Monochrome graphics on a 128×96 pixel matrix.
- Allows connection of EPSON TF-20 floppy disk drive.

The Colour Display Controller enables you to expand the viewing screen of the HX-20 and is available from all EPSON Dealers.

Colour Display Controller for EPSON HX-20

The OVAL HO-20 Display Controller allows the EPSON HX-20 Portable Computer to be interfaced to a television or video monitor, permitting the display of 512 alphanumeric characters or over 8000 colour pixels.

The OVAL HO-20 Display Controller, made in England by Oval Automation Ltd., is the only colour graphic display controller approved by Epson (UK) for use with the HX-20. It is fully compatible with the HX-20 and responds to all the display commands described in the HX-20 manual.

In the alphanumeric mode of operation, the HO-20 displays 16 lines of 32 characters, in either green or orange. The full upper and lower case character set is the UK version, with the pound sterling, and in addition, the single keystroke graphics and symbols generated by using the "graphics" key on the HX-20 are also available. The unit responds to all the cursor motion keys, with automatic horizontal and vertical display scrolling, where required. The editing keys can be used in the same way as on the HX-20's internal display.

In the colour graphics mode, the HO-20 displays 128 by 64 colour pixels (picture elements), each of which can be any of four colours, with two colour sets available. One set offers colours of red, blue, green and yellow, while the other set offers white, cyan,

magenta and orange. The two sets cannot be intermixed on the display. The background and foreground colours can be independently selected from within the current set.

A monochrome graphics mode is also available, offering improved resolution of 128 by 96 pixels, in either green or black and white.

The HO-20 connects to the HX-20 serial interface via a 5-pin DIN plug. Two outputs are provided for connection to the TV aerial socket or direct video connection, if available. The best display will naturally be obtained by using the direct video connection. An expansion connector for the serial interface is provided on a 5-pin DIN socket, allowing the use of one, or more, Epson TF-20 Disk units. This permits the use of Epson Disk Basic with the HO-20 Display Controller. The HO-20 contains its own mains power supply and is housed in a screened steel enclosure, of similar vertical and front-to-back dimensions as the HX-20 and is covered in a light grey texture finish, so is thus suitable for standing beside the HX-20. All connections are to the rear, except the serial interface expansion socket.

SPECIFICATIONS

Display:	(1) Alpha-Numeric Mode — 32 columns by 16 lines, green or orange, Alphanumerics and keystroke graphics/symbols. (2) Colour Graphics Mode — 128 by 64 pixels, choice of 4 colours from 2 sets. (3) Monochrome Graphics Mode — 128 by 96 pixels, green or black and white.
Inputs:	0.5m captive cable with 5-pin DIN plug to connect to the HX-20 Serial Interface socket. 2m captive 3-core mains lead, UK colour code.
Outputs:	Phono socket for UHF output on channel 36. 3-pin DIN socket for 1 volt composite video, negative sync, 75 ohm impedance.
Colour coding:	UK PAL, both on UHF and composite video outputs.
Power Supply:	240 volts AC, 50Hz. (220v and 110v by internal tap change). Internal 20mm mains fuse. Mains filter included as standard.
Accessories supplied:	3m phono plug to 'TV' type plug coaxial cable. Instructions.
Optional extras:	3m 3-pin DIN plug to BNC plug 75-ohm video cable, (for video monitors and some Japanese televisions). 3m 3-pin DIN plug to 6-pin DIN plug video cable, (for European televisions with VCR in/out socket, replay switching voltage provided by the HO-20). Other types of connector — please enquire.
Dimensions:	155mm wide, 215mm deep, 50mm high (at rear). (at least 25mm clearance required at rear for connections).
Weight:	Approx. 1.5kg, when packed.

PLEASE NOTE:

that the video signal generated by the HO-20 has a frame rate of 60Hz. Most modern televisions are well able to accommodate this, but slight adjustment of the vertical hold control may be required. No adjustment to the Horizontal hold should be needed.

Specifications subject to change without notice.

Whilst every effort has been made to ensure that the information presented here is accurate, no liability can be accepted for any errors or omissions.

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