EPSON HX-20

PRICE £411 or £486 including microcassette 290 × 210 × 45mm 1.7Kg CPU 6301 Hitachi **CLOCK SPEED** 2.45 MHz MEMORY 16K of RAM, expandable to 32K using a bolt-on pack. 32K of ROM, which can be expanded to 64K by the same means VIDEO DISPLAY Liquid crystal display (adjustable for viewing angle) with 4 rows of 20 characters acting as a window onto an area of up to 255 × 255

characters. Every pixel on the display can be addressed, giving a maximum graphics resolution of 120 × 32

INTERFACES

Memory expansion port, cassette, RS232 (for external printer), serial (for future disk), bar code reader pen

LANGUAGE SUPPLIED

BASIC

OTHER LANGUAGES AVAILABLE FORTH interpreter

COMES WITH

Moulded plastic carrying case, power supply unit, instruction manual

KEYBOARD

60 typewriter-style keys, five programmable function keys, and four dedicated function buttons DOCUMENTATION

The computer comes with two manuals: an operations manual, and a BASIC reference manual. Both are very comprehensive indeed, but they do suffer from the lack of an index. Epson chose to implement Microsoft BASIC, an industry standard, and the manual for the language is probably good enough to act as a general tutor, as well as a reference quide.

The operations manual includes such specialist information as a complete list of I/O connections for the RS232 and serial interfaces; acceptable signal strength levels; and comprehensive memory mapping tables

Cartridge Release

This knob allows the complete microcassette to be removed. In theory this module can be replaced with a solid-state cartridge, if you wish to use the machine for just one purpose

Viewing Angle Adjuster

Liquid crystal displays normally have to be viewed from the correct angle to be legible. Rotating this knob lets the user view from any desired angle

On/Off Power Switch

Serial Interface

Though the RS232 port is also a serial interface, this port is intended to drive various peripherals which Epson will introduce for the HX-20

RS232 Port

This is the accepted standard for serial interfaces and is used to connect to a printer, or to a modem for communicating with another computer over the telephone



A New Slant Much of the physical space taken up in a microcomputer is devoted to the cathode ray tube that forms the heart of the monitor. Epson overcame this problem in the HX-20 by substituting a liquid crystal display for the conventional VDU. Displays of this type have long been used in calculators, but this application takes a guantum leap in terms of quality as the 4 by 20 matrix is adjustable for viewing angle

our chips give a total of 32 Ktytes. A spare ROM sockat means that the computer can be turned into a dedicated application machine if the we is manufactured in ROM form 1

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standard 16K memory can

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size by the

an Epson cartridge,