



...s electronic clock beats 3.5  
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...thin the Spectrum

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8

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This takes the colour signal  
from the video chip and con-  
verts it to a signal of the same  
type as that broadcast to the  
aerial of a television set to pro-  
duce its display

**Ear and Microphone Sockets**  
These sockets are for use with  
a cassette recorder to transfer  
information to the computer  
from a cassette and vice versa

**Input/Output Chip**  
This converts inputs from the  
keyboard and cassette unit to  
a form suitable for use by the  
computer, and changes infor-  
mation from the computer to  
the appropriate form when it is  
to be displayed on the screen

**Edge Connector**  
This is where peripherals such  
as the ZX Printer are attached  
to the Spectrum

This is where the nine volt  
power supply from the  
Spectrum's power supply unit  
is connected to the computer

**User Memory**  
This is the memory which is  
provided with the computer  
for the programmer to store  
programs and data. The  
smaller of the standard alloca-  
tions is 16 Kbytes, the larger  
is 48 Kbytes

**Keyboard Socket**  
This is where the keyboard

**Microprocessor**  
This is the computing engine  
at the heart of the Spectrum. It  
is a Zilog Z80A microprocessor

**Basic Chip**  
This chip provides the Spec-  
trum's basic programming  
language. It is a 16 Kbyte  
ROM. The chip examines the  
program instructions given to  
the Spectrum and translates  
them into machine code.

# SINCLAIR SPECTRUM

<b>PRICE</b>	£99.95 for 16K model
<b>SIZE</b>	232 x 144 x 30mm
<b>WEIGHT</b>	552g
<b>CPU</b>	Z80A
<b>CLOCK SPEED</b>	3.5MHz
<b>MEMORY</b>	16 Kbytes of RAM expandable to 48 Kbytes. 16 Kbyte ROM containing BASIC
<b>VIDEO DISPLAY</b>	24 lines with 32 character positions, or 192 x 256 dots for high resolution graphics. Both modes have 8 colours
<b>INTERFACES</b>	TV connector, cassette connector (no remote control), 28-pin edge connector for connecting peripherals
<b>LANGUAGE SUPPLIED</b>	BASIC
<b>OTHER LANGUAGES AVAILABLE</b>	FORTH, PASCAL, LISP, LOGO, PROLOG
<b>COMES WITH</b>	Power supply unit (but no plug), aerial lead, cassette leads, demonstration cassette, 2 manuals
<b>KEYBOARD</b>	40 moving keys all on a single rubber sheet
<b>DOCUMENTATION</b>	The Spectrum comes with a thin introductory manual on setting up the machine and a more substantial manual on BASIC programming. The latter begins with a tour of the keyboard that really needs to be more detailed to describe to the beginner how the various shift keys are used. The chapters on BASIC programming demonstrate the Spectrum's capabilities with numerous examples of individual commands and a number of