

The video circuitry for your computer is included on the main logic board.

- ° IBM VGA compatibility plus support for Super VGA modes with 132-column text and both 800 x 600 and 1024 x 768 resolution graphics
- ° 256KB of video memory (RAM), expandable to 512KB to support more Super VGA modes.

Faxback Document # 1599 will provide specific instructions on upgrading video memory.

- ° A color palette of more than 262,000 possible colors
- ° Compatibility with VGA analog monochrome and color, fixed- and multiple-frequency monitors (including 8514/A-compatible monitors)

In its default mode, the video supports most software designed for the EGA and/or VGA standard. You must use a VGA analog color or monochrome monitor. The video circuitry is also compatible with software written for these video standards:

- ° VGA (Video Graphics Array)
- ° VESA (Video Electronics Standards Association)
- ° MCGA (Multi-Color Graphics Array)
- ° EGA (Enhanced Graphics Adapter)
- ° CGA (Color Graphics Adapter)
- ° MDA (Monochrome Display Adapter)

Three VGA utilities--ACU.EXE, AVGA2CFG.COM, and SETMODE.EXE--are provided with your computer system.

ACU.EXE and AVGA2CFG.COM work together. ACU.EXE lets you change the video refresh rate, the rate at which screen updates are made to the display. It stores the new rate in the file AVGA2CFG.COM. By putting the AVGA2CFG command in your AUTOEXEC.BAT file, you can retain the new refresh rate without having to run ACU.EXE each time you start up the computer.

Use SETMODE.EXE to select a video mode.

Faxback Document # 1732 will describe how to use ACU.EXE

Faxback Document # 1733 will describe how to use AVGA2CFG.COM

Faxback Document # 1734 will describe how to use SETMODE.EXE

Video Modes:

Standard Video Modes

MODE	VIDEO	TYPE	COLORS	RESOLUTION	COLUMNS	BUFFER	CHAR.	NOTES
0,1	CGA	text	16	320x200	40x25	B8000	8x8	1
0,1	EGA	text	16	320x350	40x25	B8000	8x14	
0,1	VGA	text	16	360x400	40x25	B8000	9x16	

2,3	CGA	text	16	640x200	80x25	B8000	8x8	1
2,3	EGA	text	16	640x350	80x25	B8000	8x14	
2,3	VGA	text	16	720x400	80x25	B8000	9x16	2
4,5	CGA	graphics	4	320x200	40x25	B8000	8x8	1
61	CGA	graphics	2	640x200	80x25	B8000	8x8	1
7	MDA	text	mono	720x350	80x25	B0000	9x14	
7	VGA	text	mono	720x400	80x25	B0000	9x16	3
D	EGA	graphics	16	320x200	40x25	A0000	8x8	1
E	EGA	graphics	16	640x200	80x25	A0000	8x8	1
F	EGA	graphics	mono	640x350	80x25	A0000	8x14	
10	EGA	graphics	16	640x350	80x25	A0000	8x14	
11	VGA	graphics	2	640x480	80x30	A0000	8x16	
12	VGA	graphics	16	640x480	80x30	A0000	8x16	
13	VGA	graphics	256	320x200	40x25	A0000	8x8	1

Notes:

1. All 200-line modes are double scanned to display 400 lines.
2. Default mode for color monitors.
3. Default mode for monochrome monitors.

Super VGA Modes

MODE	TYPE	COLORS	RESOLUTION	COLUMNS	VID MEM REQ.	VSYNC DEFAULT	VSYNC OPTIONS (2)
54	text	16/256K	1056x387	132x43	256KB	70Hz	60, 70Hz
55	text	16/256K	1056x400	132x25	256KB	70Hz	60, 70Hz
56	mono	Mono	1056x387	132x43	256KB	70Hz	
57	mono	Mono	1056x400	132x25	256KB	70Hz	
58	graphics	16/256K	800x600	100x37	256KB	56Hz	60, 72Hz
5C	graphics	256/256K	800x600	100x75	512KB	56Hz (2, 3)	60Hz
5D	graphics	16/256K	1024x768	128x48	512KB	43Hz (4, 3)	60Hz
5F	graphics	256/256K	640x480	80x60	512KB	60Hz (3)	72Hz

- (2) The optional VSYNC frequencies can be obtained using ACU.EXE, AVGA2CFG.COM, and SETMODE.EXE on the Utilities & VGA Drivers diskette.
- (3) Use the Video Memory Upgrade Kit for 512KB of video memory.
- (4) Interlaced

(jej-05/11/94) □