



# VGA Adapter for Macintosh<sup>®</sup> computers



belkin.com

#### Belkin Corporation

501 West Walnut Street  
Compton • CA • 90220 • USA  
Tel: 310.898.1100  
Fax: 310.898.1111

#### Belkin Components, Ltd.

Express Business Park  
Shipton Way • Rushden • NN10 6GL  
United Kingdom  
Tel: +44 (0) 1933 35 2000  
Fax: +44 (0) 1933 31 2000

#### Belkin Components B.V.

Starparc Building • Boeing Avenue 333  
1119 PH Schiphol-Rijk • The Netherlands  
Tel: +31 (0) 20 654 7300  
Fax: +31 (0) 20 654 7349

#### Belkin, Ltd.

7 Bowen Crescent • West Gosford  
NSW 2250 • Australia  
Tel: +61 (0) 2 4372 8600  
Fax: +61 (0) 2 4372 8603

#### Belkin Tech Support

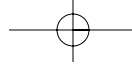
US: 310.898.1100 ext. 2263  
800.223.5546 ext. 2263  
Europe: 00 800 223 55 460  
Australia: 1800 666 040



User Manual  
F3H1381

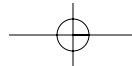
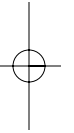
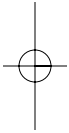
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## INTRODUCTION

Congratulations and thank you for buying this high-quality Belkin product. We trust you will get years of use and satisfaction from your new VGA Adapter.

**Note:** *So that you are sure to use it correctly and to get the most out of your connections, please **READ THIS MANUAL CAREFULLY, BEFORE ATTEMPTING TO USE THIS PRODUCT.***

The Belkin VGA Adapter allows Macintosh computers to use PC-type VGA/SVGA monitors. It features simple-to-use controls—DIP switch and rotary knob settings—that let you easily select the appropriate resolution for your computer and monitor.

### Product Diagram



## INTRODUCTION

### Features

- Connector to allow a Macintosh computer with a DB15 female video port to connect to a standard VGA, SVGA, or MultiSync® monitor
  - Fixed resolution, or multimode, which lets you change the multimode resolution anytime through the Mac Control Panel
- VESA resolution support:
  - 640x480
  - 800x600
  - 1024x768
- Mac® resolution support:
  - 512x384
  - 832x624
  - 1132x870
- Quick Reference chart on the back of the Adapter
- Belkin Lifetime Product Warranty

## INSTALLING THE ADAPTER

1. Power OFF both your Mac computer and the monitor.
2. Attach the DB15 male end of the VGA Adapter to the video port of your Mac. The video port will look like this:



3. Attach the cable of your monitor to the HDDB15 female end of the VGA Adapter.
4. Set the DIP switches. (See "Setting the Switch Positions", on page 5.)
5. Power ON your monitor first, then the Mac.

## DIP SWITCHES

### Switch Descriptions

1. The rotary knob and DIP switches 1, 3, 4, and 8 set the resolution of the monitor and computer.
2. DIP switches 5 and 6 set external sync. For Mac IIci, IIsi, IIvi, IIvx, or any computer that uses "sync on green", these are to be turned OFF. For all other computers, they are to be turned ON.
3. DIP switch 7 is composite sync and it is rarely used. Try turning it on and observe if it improves results.

## SETTING THE SWITCH POSITIONS

**Table 1** on the next page lists the various Macintosh models and the possible switch settings. If your Mac is not listed here, please select the model closest to it.

Select a column that has an "X" in it, and refer to Table 2 to check if your monitor supports the resolution(s) listed. Then, select a switch setting that both your monitor and your Mac can support.

Settings B, H, and I in Table 1 and 2 are multimode settings, the others are fixed mode. This means that you can change resolutions in the Macintosh Apple<sup>®</sup> Menu under "Control Panel/Monitors" without having to restart the computer. In "Control Panel/Monitors", more selections are available on many Mac models by pressing the "Option" key on the keyboard while clicking on the "OPTIONS" button on the screen.

**Note:** Restart the computer each time the rotary and switch settings are changed.

The ON position in the DIP switches is the "up" position.

The first setting, "3 / All off", is a fixed-mode setting. It is the only setting that will work with the Mac IIci and IIsi. Older non-SVGA monitors cannot support the resolution this setting produces.

## SETTING THE SWITCH POSITIONS

Table 1

MAC Model /Setting #	A	B	C	D	E	F	G	H	I
LC	X								
LC II	X	X							
LC III	X	X				X			
LC 475	X	X			X	X	X		
LC 500 series	X	X				X			
LC 630	X	X				X			
LC 6300 series	X	X				X			

Performa	A	B	C	D	E	F	G	H	I
400, 405, 410, 430	X	X							
450, 460, 466, 467	X	X				X			
475	X	X			X	X	X		
600, 600CD	X	X							
630 series	X	X				X			
6200 series	X	X				X			

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## SETTING THE SWITCH POSITIONS

Table 1 (continued)

Quadra	A	B	C	D	E	F	G	H	I
700, 900	X	X		X		X			
605	X	X	X	X		X			
630	X	X				X			
610, 650, 700, 800, 950	X	X	X	X		X			
660AV, 840AV	X	X	X	X		X			

Centris	A	B	C	D	E	F	G	H	I
610,650	X	X	X	X		X			
660AV	X	X	X	X		X			

PowerBook®	A	B	C	D	E	F	G	H	I
160, 180 series	X	X				X			
500, 5300 series	X	X				X			
Duo Dock, Mini Dock	X	X				X			
Duo Dock II	X	X	X	X		X			

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### SETTING THE SWITCH POSITIONS

Table 1 (continued)

Workgroup Servers	A	B	C	D	E	F	G	H	I
60, 80, 95, 9150	X	X	X	X		X			
6150, 8150	X	X				X			

Power Mac®	A	B	C	D	E	F	G	H	I
6100, 7100, 8100 DRAM	X	X				X			
7100, 8100 with VRAM	X	X	X	X		X			
6100, 7100, 8100 with AV	X	X	X	X		X			
7200, 7500, 8500, 9500, 400, G3	X	X	X	X		X			
Video Boards									
24AC	X	X			X	X	X	X	X
4.8, 8.24, 8.24GC	X				X	X			
Mac "Clones"		X							

### SETTING THE SWITCH POSITIONS

Table 2

Setting #	Rotary Knob	DIP Switches Set ON	Supported Resolutions	Horizontal Refresh Rate	Vertical Refresh Rate
A	3	All Off	640x480	35kHz	67kHz
B	0	8	640x480	31kHz	60kHz
			800x600	35kHz	56kHz
			800x600	37kHz	60kHz
			800x600	48kHz	72kHz
			1024x768	48.3kHz	60kHz
C	0	1,3	1024x768	60kHz	75kHz
D	0	1,4	1152x870	68.7kHz	75kHz
E	1	All Off	1024x768	60kHz	75kHz
F	2	All Off	832x624	50kHz	75kHz
G	4	All Off	1152x870	68.7kHz	75kHz
			800x600	37kHz	60kHz
H	3	4	800x600	48kHz	72kHz
			800x600	37kHz	60kHz
I	3	3	800x600	37kHz	60kHz
			800x600	48kHz	72kHz

## REFERENCE

Your Belkin VGA Adapter is capable of either “multimode” or “fixed-mode” settings.

Multimode settings allow you to change resolutions anytime through the Control Panel/Monitors in the Mac OS<sup>®</sup>, without having to restart your computer. A MultiSync monitor may be required for some settings, depending on which Mac OS and Mac computer you are using.

Fixed-mode settings, unlike multimode, keep your monitor on one resolution. In order to change resolutions once fixed-mode is in effect, you must change the settings on your VGA Adapter, and then restart your computer.

### Finding Other Multimode Settings

To find other settings supported by your Mac, review Table 1. Note: For example, the Mac LC II has an “X” in columns A and B.

Look in Table 2 for rows A and B. There, you pick your preferred setting. Setting B is more desirable than A because it is a multimode setting, and allows you more flexibility in choosing resolution settings. Be sure your monitor supports the settings you wish to use before proceeding.

Set your VGA Adapter’s rotary knob on 0 and all the DIP switches OFF, except 8, as described on setting# B in Table 2.

Restart your computer. You will have the multimode selections in your Mac Control Panel.

## TROUBLESHOOTING

### There is no image, or the image has no vertical hold.

1. The monitor and the computer are not synchronized correctly. Try changing the settings of both DIP switches 5 and 6, or just DIP switch 7.
2. The monitor does not support the resolution selected. Try changing to a different switch setting, and then restart the computer.

### There is no color in the image.

This is most likely caused by changing switch settings while the computer boots up. Go into the “Control Panel/Monitors” in the Macintosh Apple menu. Select the color depth you prefer, and click “OK”.

### The image is too small on the screen.

1. Adjust the screen size by using the controls on your monitor.
2. If the monitor cannot expand the image to fit the entire screen using its controls, the monitor simply cannot support that resolution. Try switching to a lower resolution.

If your question was not answered here, please e-mail your question to [techsupp@belkin.com](mailto:techsupp@belkin.com) or call Belkin Technical Support at 310-898-1100 ext. 2263.

**Before calling, please ensure that you have all of your equipment connected and powered ON, and that you are at the computer.**



## INFORMATION

### FCC Statement

#### DECLARATION OF CONFORMITY WITH FCC RULES FOR ELECTROMAGNETIC COMPATIBILITY

We, Belkin Corporation, of 501 West Walnut Street, Compton, CA 90220, declare under our sole responsibility that the product:

F3H1381

to which this declaration relates:

Complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### Belkin Corporation Limited Lifetime Product Warranty

Belkin Corporation warrants this product against defects in materials and workmanship for its lifetime. If a defect is discovered, Belkin will, at its option, repair or replace the product at no charge provided it is returned during the warranty period, with transportation charges prepaid, to the authorized Belkin dealer from whom you purchased the product. Proof of purchase may be required.

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