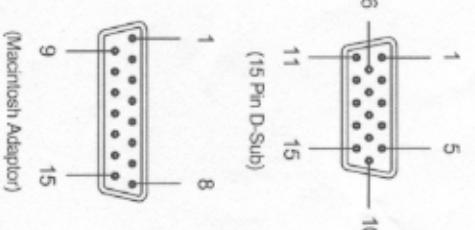


■ Pin assignment table D-Sub Mini 15pin connector

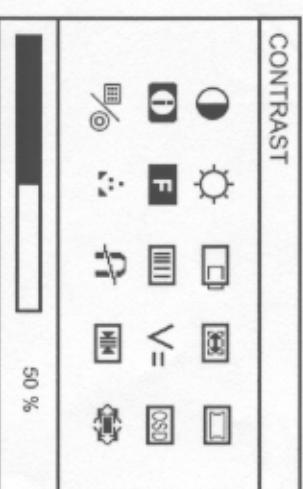
Pin No.	15 Pin D-Sub	Macintosh
1	Red Video	Red Ground
2	Green Video	Red Video
3	Blue Video	H/V Sync
4	Frame Ground	Sense (0)
5	N.C.	Green Video
6	Red Ground	Green Ground
7	Green Ground	Sense (1)
8	Blue Ground	N.C.
9	N.C.	Blue Video
10	Sync. Ground	Sense (2)
11	Ground	Ground
12	SDA	V-Sync.
13	H-Sync.	Blue Ground
14	V-Sync.	Ground
15	SCL	H-Sync.



- Main Menu**
"ON SCREEN MENU's Main Menu of Controls gives you an overview of the selection of controls available.

■ OSD Menus

"ON SCREEN MENU" controls include the following extended controls such as Size, Position, Geometry Distortion, Color temp, Degauss, More on & off, Language, OSD-Position, Recall, Cont & Bit, etc.



Use the ▲ / ▼ or ▲ / ▼ : Control buttons to scroll through all of the menus.

- DO : In the main menu, proceeds to the selected menu.
- In a submenu, proceeds to the control in that sub-menu.
- Controls ▲ / ▼ : Move the function to select one of the controls.
- Controls ▲ / ▼ : In the main menu, moves the function to select one of the controls.
- In a submenu, moves the bar in the ▲ or ▼ direction to increase or decrease the adjustment.
- EXIT : In the main menu, exit the OSD controls. In a submenu, exit to the OSD main menu.

Additional up front controls

■ Power Switch : Turns the monitor power on or off. When the power is on, the LED is lit.

Accessing on screen menu
Press DO Button.

- Controls ▲ / ▼ : Direct Brightness access.
- Controls ▲ / ▼ : Direct Contrast access.

Turning off on screen menu
When in the main menu, press exit button.

When in submenus, press the exit button twice.

Controls

Contrast & Brightness Menu



- EXIT : Exit the Brightness or Contrast menu.
- Cursor ▲ / ▼ : Increase or decrease the Contrast.
- Cursor ▲ / ▼ : Increase or decrease the Brightness.

Geometry Controls Menu



The Geometry controls allow you to adjust the curvature or angle of displayed image.

- PinCushion : Increase or decrease the curvature of the sides either inward or outward.
- Parallelgram : Increase or decrease the tilt of the sides either to the left or right.
- Trapezoid : Increases or decreases the bottom of the screen to be the same as the top.
- Pin Balance : Increase or decrease the curvature of the sides.

- Top Corner : Increase or decreases the curvature of the top sides.
- Bottom Corner : Increase or decrease the curvature of the bottom sides.
- Rotation : Rotate the entire display clockwise or counterclockwise.

Geometry Menu Control Guide

- EXIT : Exit to the main menu.
- Controls ▲ / ▼ : Move the function to choose.
- Controls ▲ / ▼ : Move the bar in the ▲ or ▼ direction to increase or decrease the adjustment.

Language Menu



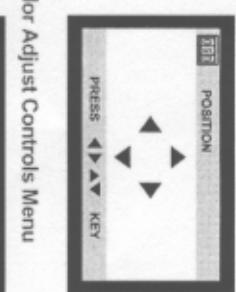
▲/▼ : Select the language using ▲/▼ key.

Moire Control



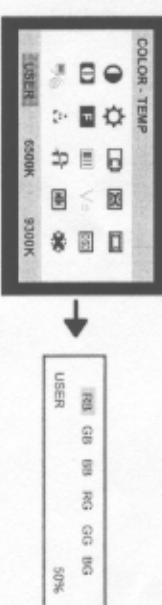
- ▲/▼ : Select the H.More or V.More Adjust.
- ▲/▼ : Adjust the Moire

OSD Position Menu



- ▲ / ▼ : Moves the OSD Position vertically up or down.
 ◀ / ▶ : Moves the OSD Position horizontally left or right.

Color Adjust Controls Menu



- EXIT : Exit to the main menu.
- Controls ▲ / ▼ : Increase or decrease the Selected color adjustment.
- Controls ◀ / ▶ : Move the bar in the ▲ or ▼ direction to select the color setting (USER, 6500K, 9300K).
- DO : Proceed to the selected Submenu choice (Press DO button for 5 seconds).
- Presetting : Select the desired color setting. The bar is replaced by the color setting choice "USER, 6500K or 9300K". Each color setting is adjusted at user mode to choose degree or Kelvin.

■ Troubleshooting guide

If your monitor is not performing properly, please use the following troubleshooting chart for quick solutions to common problems.

Problem	Possible cause	Remedy
No Picture	Is the power cord connected? Is the power switch on?	Connect power cord. Turn on power switch.
	Is the signal cable properly connected?	Connect signal cable properly.
	Is the monitor in the power save mode?	Press any key on the keyboard or move the mouse.

Controls	ICON	Function
Information	F	This control shows the Factory and user mode information.
Video Level	V=	This control allows the video input level selection applied by signal source (0.7Vp-p1.0Vp-p)
D-Sub/BNC	III/◎	This control allows the video input type selection (BNC/CD-SUB)
Degauss	Ω	This control removes the build-up of magnetic fields that can affect color purity and convergence. Note : The picture shakes while degaussing is taking place. After internal degaussing the circuitry takes about 30 minutes to regain its maximum power.
Recall	■	This controls recalls certain factory setting such as size, position, geometry and color by pressing DO button. If the monitor is operation in a user mode, this controls has no effect.
Zoom Menu	◆	▲ / ▼ : Increase or decrease the Vertical and Horizontal size of image at the same time.

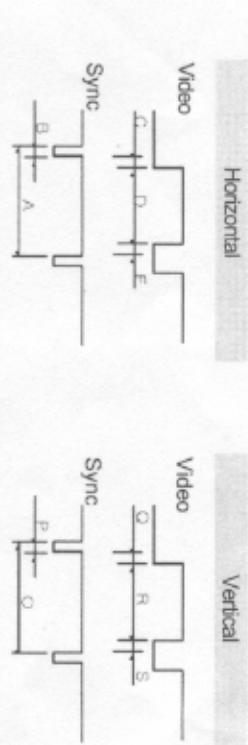
Specifications

■ Electrical Specifications

ITEM	B19CL	
CRT Type	19", 90° deflection, FST	
CRT Dot pitch	0.26mm (0.22 in Hor.)	
CRT Surface	Non-glare, ARASAC	
Input Signal	Sync	H/V Separate, TTL positive/negative H/W Composite, TTL positive/negative RGB Analog (0.7Vp-p), positive 75 Ω Terminated
Scanning frequency	Horizontal	30KHz - 96KHz (Automatically)
Vertical	4.7Hz - 150Hz (Automatically)	
Maximum Resolution	1600dots × 1200lines (Non-interface)	
Pixel Clock(Max.)	20.2 MHz	
Display Size (Standard)	Horizontal 350mm, Vertical 262mm	
Power Consumption	120 W	
Power Supply	AC 100~240V(±50/60Hz ±3Hz)	
Input Connector	D-Sub, 15Pin Connectors	
Display Colors	Unlimited	

■ Mechanical Specifications

ITEM	B19CL	
Unit	18.5"(W) × 18.9"(D) × 18.5"(H)	
Dimension	470mm(W) × 487mm(D) × 470mm(H)	
Carton	21.5"(W) × 22.6"(D) × 22.4"(H)	
Weight	548mm(W) × 574mm(D) × 560mm(H) Net 23.1kg (50.9lbs) Gross 28.1kg (61.9lbs)	



■ Preset Timings

This Monitor B19CL has preset modes for the 14 most popular industry standards for "Plug and Play" capability.

ENGLISH

Appendix

ITEM	B19CL	
Temperature	32°F to 104°F (0°C to 40°C)	
Operating Storage	4°F to 140°F (-20°C to 60°C)	10% to 85% R.H. Non-condensing
Humidity		
ITEM	Resolution	VESA MACINTOSH
Timing	1024×768 1280×751z 1280×851z 1600×751z 640×671z 832×624 1152×870	632×751z 1152×870
H-Freq	68.577 79.976 91.146 93.75 35 49.726 68.681	
A/dsec	14.551 12.504 10.971 10.667 28.571 20.11 14.560	
B/dsec	1.016 1.067 1.016 0.948 2.116 1.117 1.290	
C/dsec	2.201 1.837 1.422 1.501 3.175 3.91 1.440	
D/dsec	10.836 9.481 8.127 7.901 21.164 14.524 11.520	
E/dsec	0.508 0.119 0.406 0.316 2.116 0.559 0.320	
V-Freq	84.997 75.25 85.024 75.001 68.667 74.551 68.667	
Ormsoc	11.765 13.329 11.761 13.333 15 13.414 13.322	
Pmsoc	0.044 0.036 0.033 0.032 0.096 0.06 0.044	
Ormsoc	0.524 0.475 0.579 0.491 1.114 0.784 0.568	
Rmsoc	11.183 12.804 11.235 12.800 13.714 12.549 12.667	
Smsoc	0.015 0.013 0.011 0.011 0.026 0.02 0.044	
Pixel Ratio	94.5 135 157.5 202.5 30.24 57.284 100	
H-Polarity	Positive Positive Positive Positive Negative Negative	
V-Polarity	Positive Positive Positive Positive Negative Negative	