

Operation Instructions

Thank you for purchasing a JD155 series high-resolution multiscan color monitor! Please read this guide thoroughly before installation.

FCC RADIO FREQUENCY INTERFERENCE STATEMENT

WARNING: (FOR FCC CERTIFIED MODELS)

This monitor has been tested and found compliant with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide proper protection against harmful interference to a residential installation. This monitor generates, uses, and can radiate radio frequency energy. Harmful interference to radio communication may be led as a result if it's not properly installed and used. However, there is no guarantee that interference will not occur in a particular installation. If this monitor does cause serious interference to radio or television reception, resetting the monitor may determine it. Moreover, users are encouraged to correct interference by doing one or more of the following:

- Reorient or relocate the receiving antenna.
- Move the monitor and the receiver further away from each other.
- Connect the monitor into an outlet on a circuit different from that to which the receiver is connected.
- Consult your local dealer or an qualified technician.

FCC Warning:

To assure a continued FCC compliance, a user must use a grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. Also, any unauthorized changes or modifications to this monitor would void the user's authority to operate this device.

Note: If necessary, shielded interface cables and A.C. power cord must be used to meet the emission level limits.

FCC ID: AMPJS1E

TABLE OF CONTENTS

General Description.....	2
Safety Precautions.....	3
Monitor Outlook: Front and Rear.....	4
Tactile Switch Function.....	5
Swivel Base Installation.....	6
Set up/Function.....	7
DDC Function/Signal Cable.....	8
Technical Specifications.....	9
Signal Timing.....	10
Signal Timing Chart.....	11

GENERAL DESCRIPTION

Welcome to the world of Multi-Display monitor! Your brand new advanced color monitor is compatible with many industry graphic standards including IBM PS/2 VGA, 800 x 600 SUPER VGA, 1024 X 768 IBM 8514/A, and 1024 X 768 (non-interlace).

Your JD155 monitor package comes with:

- Monitor
- Tilt/Swivel base
- Power cord
- User guidebook

Your JD155 monitor features:

- Multi-Scan SUPER VGA, it enhances your display resolution up to 1024 x 768 with a 48KHz horizontal scan frequency and 800 x 600 with a 53.7KHz horizontal frequency.
- Compatibility with VGA (video graphics array).
- 15" with a 13.7 actual viewable size. High resolution, high contrast, and none-glare CRT to reduce eye fatigue.
- Full -range operation for worldwide use (100V-240V).
- Infinite array of displayable colors (displayable colors are limited only by the source that supplies the monitor).

Before installation, please go over this guide. It details the setup and operation as well as carries the service and support information. Technical specifications are also included.

SAFETY PRECAUTIONS

This monitor is manufactured and tested on a ground principle that a user's safety comes first. However, improper use or installation may result danger to the monitor as well as to the user. Carefully go over the following WARNINGS before installation and keep this guide handy.

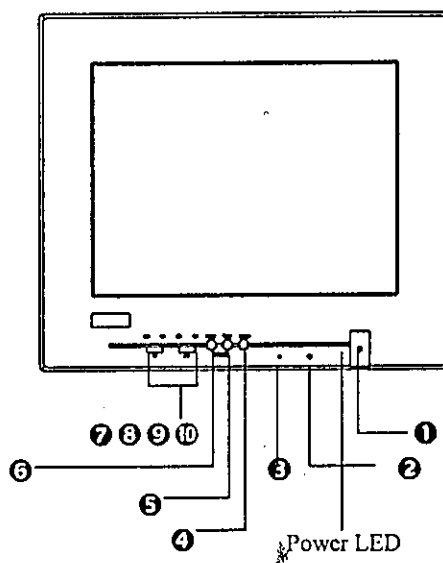
WARNINGS:

- ◆ This monitor should be operated only at the correct power sources indicated on the label on the rear end of the monitor. If you're unsure of the power supply in your residence, consult your local dealer or power company.
- ◆ Do not try to repair the monitor yourself as it contains no user-serviceable parts. The monitor should only be repaired by a qualified technician.
- ◆ Do not remove the monitor cabinet. There is high-voltage parts inside that may cause electric shock to human bodies, even when the power cord is disconnected.
- ◆ Stop using the monitor if the cabinet is damaged. Have it checked by a service technician.
- ◆ Put your monitor only in a clean, dry environment. Unplug the monitor immediately if gets wet and consult your service technician.
- ◆ Always unplug the monitor before cleaning it. Clean the cabinet with a clean, dry cloth. Apply non-ammonia based cleaner onto the cloth, not directly onto the glass screen.
- ◆ Keep the monitor away from magnetic objects, motors, TV sets, and transformer.
- ◆ Do not place heavy objects on the cable or power cord.

MONITOR OUTLOOK: FRONT AND REAR

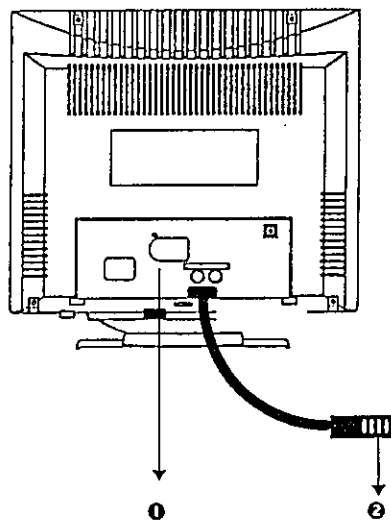
Front view

- ❶ POWER ON/OFF SWITCH
- ❷ CONTRAST
- ❸ BRIGHTNESS
- ❹ FUNCTION SELECTION
- ❺ INCREASE
- ❻ DECREASE
- ❼ LED 4
- ❽ LED 3
- ❾ LED 2
- ❿ LED 1



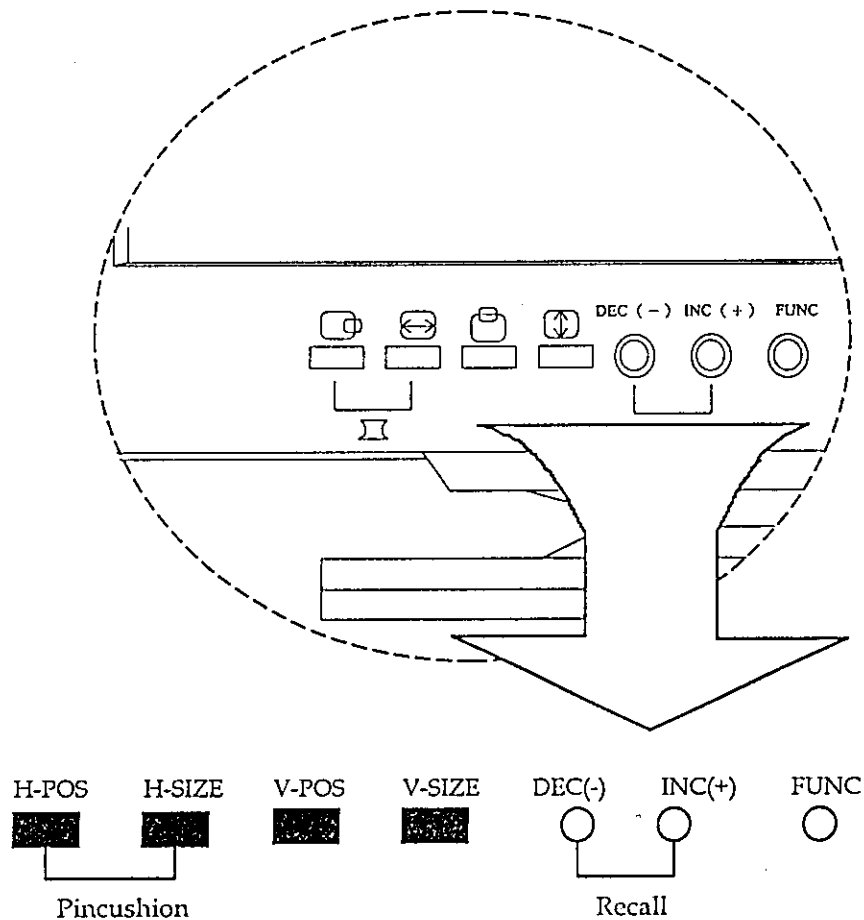
Rear view

- ❶ POWER SOCKET
- ❷ SIGNAL CABLE, 15PIN D-SHELL



TACTILE SWITCH FUNCTIONS

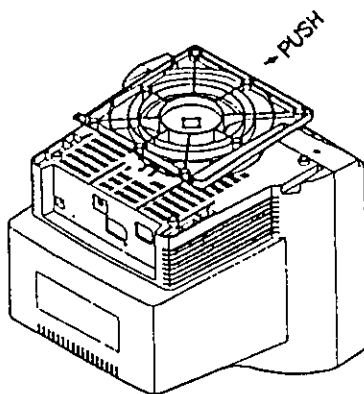
- ◆ Press the function button to activate the LEDs and scroll through for desired function.
- ◆ Tactile switch icons and:



SWIVEL BASE INSTALLATION

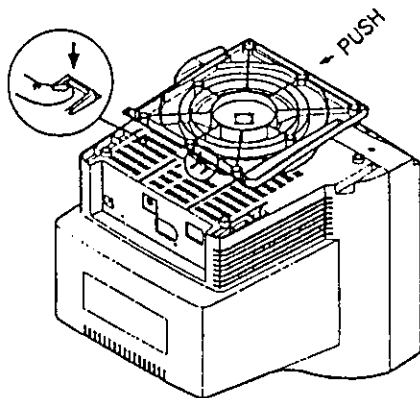
Swivel Base Installation

Turn the monitor over as shown and push swivel base, slide it toward the front panel of the monitor until it clicks and secures into place to secure .



Swivel Base Removal

Press the lock tab to release and detach the swivel base.



SET UP/FUNCTION

1. Place the monitor in place and make certain your PC power is off.
2. Connect the signal cable to your PC. This monitor comes with a 15-pin D-shell connector. Lock both screws to ensure a firm-grounding.
3. Plug the power cord into the monitor first, then plug it into an AC outlet.
4. Turn the monitor on see if the power indicator turns green.
5. Allow about 30 seconds for the display tube to warm up. You should see characters display in a brief.
6. Adjust the brightness/contrast control if the display does not seem to function well.

A. External Control Panel

SYMBOL	ITEM	DESCRIPTION
	① POWER SWITCH	-CONTROLS POWER
	INDICATOR	-GREEN LIT GIVES CONFIRMATION OF POWER ON. LIT ORANGE GIVES CONFIRMATION OF POWERSAVING MODE.
	① CONTRAST ② BRIGHTNESS	-ADJUST CONTRAST -ADJUST BRIGHTNESS
FUNC	③ FUNCTION SELECT	-SCROLL LED TO ADJUST FUNCTIONS
INC(+)	④ INCREASE	-INCREASE FUNCTION PARAMETER
DEC(-)	⑤ DECREASE	-DECREASE FUNCTION PARAMETER
	⑥ LED 4	-V-SIZE INDICATOR
	⑦ LED 3	-V-CENTER INDICATOR
	⑧ LED 2	-H-SIZE INDICATOR
	⑨ LED 1	-H-CENTER INDICATOR
INC(+)/DEC(-)	⑩ ITEM ⑥+⑦	-RECALL
	ITEM ⑧+⑨	-PINCUSHION

B. Digital Features

1. This monitor has an adapted advance CPU to control the H-Center, the H-Size, the V-Center, the V-Size, Pincushion. It also auto saves the configuration set up by users.
2. This monitor has 12 sets of factory preset timing and 15 sets of user definable timing.
3. Push INC(+) and DEC(-) together and wait 0.5 second to recall factory preset.

DDC FUNCTION/SIGNAL CABLE

DDC function is a communication channel between a computer display and the host system. This channel is used to carry display and additional display configuration information. This set includes DDC1/2B function. Detailed specification like ID manufacturer, ID product code, and date of manufacture can also be found in it.

POWER MANAGEMENT

STATUS

Power on
Stand-by
Suspend
Off

OPERATION

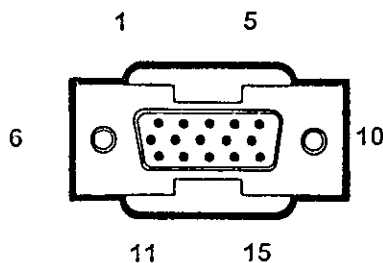
LED INDICATOR

Green
Orange (<15W)
Orange (<15W)
Orange (<8W)

SIGNAL CABLE

15-PIN D-SHELL CONNECTOR PIN SIGNAL

1	RED SIGNAL INPUT	10	GND
2	GREEN SIGNAL INPUT	11	GND
3	BLUE SIGNAL INPUT	12	SDA
4	GND	13	H-SYNC INPUT
5	SELF TEST	14	V-SYNC INPUT
6	RED SIGNAL GND	15	SCL
7	GREEN SIGNAL GND		
8	BLUE SIGNAL GND		
9	NC		



TECHNICAL SPECIFICATIONS

CRT Size	:15" (diagonal)
Viewable Size	:13.7" (diagonal)
CRT Dot Pitch	:.28mm
Display Area	:195(H)x260(W)mm(Normal)
Video input	:Analog 0.7Vp-p, 75ohms
SYNC input	:Hor & Vert. TTL Separate Positive or Negative
Display Color	:Unlimited color
Resolution	:1024x768(Non-interlaced)
SYNC Signals	
Horizontal	:30KHz-55KHz
Vertical	:50Hz-90Hz
Power Supply	
Input Voltage	:AC100-240V 60/50Hz
Consumption	:85W(MAX)
User Controls	:Brightness, Contrast, V-size, V-Center, H-Phase, H-Size, Pincushion.
Dimension	:488(W)x429(H)x468(D)mm
Weight(N.W/G.W)	:12.5/14.5KGS

Environmental Conditions

Operating Temperature:	5°C~35°C (41°F~95°F)
Operating Humidity:	10%~90% (non-condensing)
Storage Temperature:	-30°C~60°C (-22°F~140°F)
Storage Humidity:	5%~95% (non-condensing)

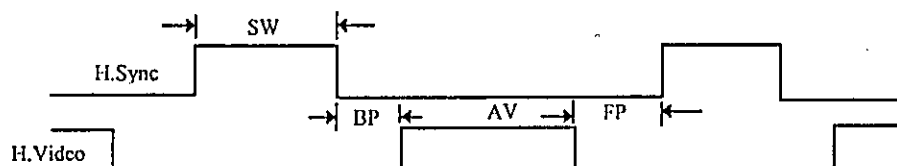
SIGNAL TIMING

Mode		(1)	(2)	(3)	(4)	(5)	(6)
		VGA	VGA	VGA	SVGA	8514A	VESA
Resolution		640*350	720*400	640*480	800*600	1024*768	640*480
H. Sync Polarity		+	-	-	+	+	-
V. Sync Polarity		-	+	-	+	+	-
H. Frequency	(KHz)	31.468	31.468	31.468	35.156	35.522	37.500
H. Period	(US)	31.778	31.778	31.778	28.444	28.151	26.667
Front Porch(FP)	(US)	0.636	0.636	0.636	0.666	0.178	0.508
Sync Width(SW)	(US)	3.813	3.813	3.813	2.000	3.920	2.032
Back Porch(BP)	(US)	1.907	1.907	1.907	3.556	1.247	3.810
Blank	(US)	6.356	6.356	6.356	6.222	5.345	6.350
Active Video	(US)	25.422	25.422	25.422	22.222	22.806	20.317
V.Frequency	(Hz)	70.087	70.087	59.941	56.250	86.958	75.000
V.Period	(MS)	14.268	14.268	16.683	17.778	11.500	13.333
Front Porch(FP)	(MS)	1.175	0.381	0.317	0.028	0.014	0.027
Sync Width(SW)	(MS)	0.064	0.064	0.064	0.057	0.113	0.079
Back Porch(BP)	(MS)	1.907	1.112	1.049	0.626	0.563	0.427
Blank	(MS)	3.146	1.557	1.430	0.711	0.690	0.533
Active Video	(MS)	11.122	12.711	15.253	17.067	10.810	12.800
Interlaced		No	No	No	No	Yes	No

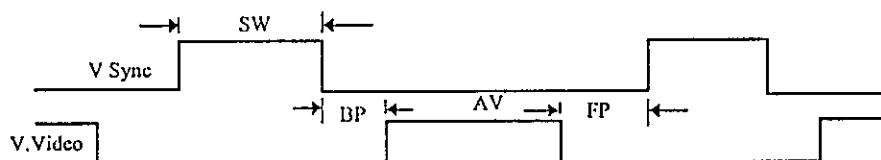
Mode		(7)	(8)	(9)	(10)	(11)	(12)
		VESA	VESA	VEGA	VESA	VESA	VESA
Resolution		800*600	640*480	800*600	640*480	1024*768	800*600
H. Sync Polarity		+	-	+	-	-	+
V. Sync Polarity		+	-	+	-	-	+
H. Frequency	(KHz)	37.879	43.269	46.875	37.860	48.363	53.674
H. Period	(us)	26.400	23.111	21.333	26.413	20.667	18.631
Front Porch(FP)	(us)	1.000	1.556	0.323	0.508	0.369	0.569
Sync Width(SW)	(us)	3.200	1.556	1.616	1.270	2.092	1.138
Back Porch(BP)	(us)	2.200	2.222	3.232	3.810	2.462	2.702
Blank	(us)	6.400	5.334	5.171	5.587	4.923	4.409
Active Video	(us)	20.000	17.778	16.162	20.317	15.754	14.222
V.Frequency	(Hz)	60.317	85.008	75.000	72.809	60.004	85.061
V.Period	(ms)	16.579	11.764	13.333	13.735	16.666	11.756
Front Porch(FP)	(ms)	0.026	0.023	0.021	0.026	0.062	0.019
Sync Width(SW)	(ms)	0.106	0.069	0.064	0.079	0.124	0.056
Back Porch(BP)	(ms)	0.607	0.578	0.448	0.528	0.600	0.503
Blank	(ms)	0.739	0.670	0.533	0.634	0.786	0.578
Active Video	(ms)	15.840	11.093	12.800	12.678	15.880	11.179
Interlaced		No	No	No	No	No	No

SIGNAL TIMING CHART

1. Horizontal Timing Chart



2. Vertical Timing Chart



SW=Sync Width FP=Front Porch AV=Active Video BP=Back Porch