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Manuals

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Specifications : Dell™ M990 Color Monitor User's Guide

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General

Model number : M990

CRT

Screen dimensions	19" (48.3 cm) flat & square (18.0" viewable image size)
Preset Display area:	
Horizontal	355±5 mm (13.98±0.20 inches)
Vertical	265±5 mm (10.43±0.02 inches)
Phosphor Dot pitch	0.26 mm
Deflection angle	100°
Phosphor type	P22, medium short persistence

Faceplate coating

Anti-glare, anti-static

Resolution

Horizontal scan range	30 - 96 kHz (automatic)
Vertical scan range	50 - 160 Hz (automatic)
Optimal preset resolution	1024 x 768 at 75 Hz or 85 Hz
Highest preset resolution	1600 x 1200 at 75 Hz*
Highest addressable resolution	1600 x 1200 at 75 Hz*

* Dell does not recommend this mode because text may appear too small.

Preset Display Modes

Resolution	Frequency		Sync Polarity	
	H (kHz)	V (Hz)	H	V
720 X 400	31.5	70	-	+
640 X 480	31.5	60	-	-
640 X 480	43.3	85	-	-
800 X 600	46.9	75	+	+
800 X 600	53.7	85	+	+

1024 X 768	60.0	75	+	+
1024 X 768	68.7	85	+	+
1280 X 1024	80.0	75	+	+
1280 X 1024	91.1	85	+	+
1600 X 1200	93.7	75	+	+

Electrical

Video input signals	analog, 0.7 Vpp, positive at 75 ohm
Synchronization input signals	separate horizontal and vertical; TTL level, positive or negative
AC input voltage / frequency	100-240 VAC \pm 10%, 47 - 63 Hz
AC input current	1.6 A (RMS) at 120 VAC
	1.0 A (RMS) at 220 VAC
Inrush current at 120V	28 A
Inrush current at 240 V	38 A

Physical Characteristics

Connector type	15- pin D-subminiature
Signal cable	attached to monitor
Dimensions:	
Height	464 mm (18.3 inches)
Width	451 mm (17.8 inches)
	420 mm (16.5 inches)

Depth	
Weight (monitor only)	20.9 kg (46.0 lb)
Weight (with packaging)	25.0 kg (55.1 lb)
Tilt	5° forward, 15° backward
Swivel	90° leftward, 90° rightward

Environmental

Temperature:

Operating	5° C to 40° C
Non-operating	-25° C to 65° C

Humidity:

Operating	10% to 80% (non-condensing)
Non-operating	5% to 95% (non-condensing)

Altitude:

Operating	3000 m (10,000 ft)
Non-operating	3000 m (10,000 ft)

Thermal dissipation

375.32 BTU/hour (maximum)
324.14 BTU/hour (typical)

Power Management Modes

If you have VESA's DPMS compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. If input from keyboard, mouse or other input devices is detected, the monitor will automatically "wake up". The following table shows the power consumption and signaling of this automatic power saving feature:

Power Management Definition						
VESA's Mode	Video	H-sync	V-sync	Power Used	Power Saving (%)	LED color
ON	Active	Yes	Yes	maximum 110W typical 95W	0 %	Green
Stand-by	Blanked	No	Yes	6-10W	90%	Yellow
Suspend	Blanked	Yes	No	6-10W	90%	Yellow
Active-OFF*	Blanked	No	No	2-5W	95%	Amber

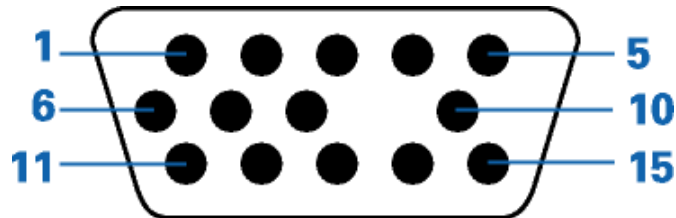
This monitor is Environmental Protection Agency (EPA) ENERGY STAR® compliant and TCO'99 power management compatible.

* Zero power consumption in OFF mode can only be achieved by disconnecting the mains cable from the monitor.

ENERGY STAR® is a U.S. registered mark. As an ENERGY STAR® Partner, DELL has determined that this product

meets the ENERGY STAR® guidelines for energy efficiency.

Pin assignment



The 15-pin D-sub connector (male) of the signal cable:

Pin No.	Assignment	Pin No.	Assignment
1	Red video input	9	No Pin Present
2	Green video input	10	Ground
3	Blue video input	11	Ground
4	Ground	12	Serial data line (SDA)
5	Self test	13	H. Sync
6	Red video ground	14	V. Sync (VCLK for DDC)
7	Green video ground	15	Data clock line (SCL)
8	Blue video ground		

Plug and Play

Our adoption of the new VESA Plug and Play solution eliminates complicated and time consuming setup. It allows you to install your monitor in a Plug and Play compatible system without the usual hassles and confusion. Your PC system can easily identify and configure itself for use with your monitor. This monitor automatically tells the PC system it's Extended Display Identification (EDID) data using Display Data Channel (DDC) protocols so the PC system can automatically configure itself and optimize the monitor settings. If desired, the user can select different settings, but in most cases, monitor installation is automatic.

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