

Gateway 23-inch LCD TV Specifications

Specifications are subject to change without notice or obligation.

Display Panel

Screen size	Diagonal 23-inch
Aspect ratio	16:9 wide
Number of pixels	1280 (Horizontal, RGB Trio) × 768 (Vertical) pixels
Pixel pitch	0.3915 × 0.3915 mm
Luminance	450 cd/m ² , at APL13% typical
Contrast ratio	500:1 typical
Response time	16 ms typical
Colors	16.7 M colors / 8 bits
Viewing angle	85° Horizontal / 85° Vertical

Power Source

Input voltage	90 ~ 264 Vac, 47 Hz -63 Hz
Input current	1.5 A
Power consumption	130 Watts typical
Stand-by and Power Save	5 Watts max.

Video Formats (AV/S)

NTSC, PAL, SECAM

Connector Types

14	RCA jacks for audio, video, and YP _B P _R (component)
2	6-pin Din S-terminal for S-Video
1	24-pin DVI/HDCP
1	15-pin D-SUB for RGB
1	F-terminal coax

Video Signal, S-Video

Type	Analog
Polarity	Positive
Amplitude	Y: 1 Vp-p, C: 0.286 Vp-p
Input impedance	75 ohms

YP_BP_R Signal (Component)

Type	Analog
Polarity	Positive
Amplitude	Y: 1 Vp-p, UV: 0.286 Vp-p

RGB Signal

Type	Analog
Polarity	Positive or Negative
Amplitude	RGB: 0.7 Vp-p

Audio Signal

Analog 500 mV rms /more than 22 Kohm

Pin Assignments for D-SUB Connector (In/Loop Out)

Pin	Signal Assignment	Pin	Signal Assignment	Pin	Signal Assignment
1	RED	6	RED GND	11	GND
2	GREEN	7	GREEN GND	12	SDA
3	BLUE	8	BLUE GND	13	H-SYNC
4	GND	9	+5 V for DDC	14	V-SYNC
5	GND	10	GND	15	SCL

Pin Assignments for DVI-D Connector

Pin	Signal Assignment	Pin	Signal Assignment
1	TMDS DATA 2 –	13	TMDS DATA 3 +
2	TMDS DATA 2 +	14	+ 5 V
3	TMDS DATA 2/4 SHIELD	15	GND
4	TMDS DATA 4 –	16	HOT PLUG DETECT
5	TMDS DATA 4 +	17	TMDS DATA 0 –
6	DDC CLOCK	18	TMDS DATA 0 +
7	DDC DATA	19	TMDS DATA 0/5 SHIELD
8	NC	20	TMDS DATA 5 –
9	TMDS DATA 1 –	21	TMDS DATA 5 +
10	TMDS DATA 1 +	22	TMDS CLOCK SHIELD
11	TMDS DATA 1/3 SHIELD	23	TMDS CLOCK –
12	TMDS DATA 3 –	24	TMDS CLOCK –

RGB For VESA Standard						
Mode No.	Resolution	Refresh Rate (Hz)	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	V-Sync Polarity (TTL)	H-Sync Polarity (TTL)
1	720 × 400	70	31.47	70.0	+	-
2	640 × 480	60	31.47	60.0	-	-
3	640 × 480	72	37.86	72.0	-	-
4	640 × 480	75	37.50	75.0	-	-
5	640 × 480	85	43.4	85.0	-	-
6	800 × 600	56	35.16	56.0	+	-
7	800 × 600	60	37.88	60.0	+	+
8	800 × 600	72	48.08	72.0	+	+
9	800 × 600	75	46.88	75.0	+	+
10	800 × 600	85	53.70	85.0	+	+
11	1024 × 768	60	48.36	60.0	-	-
12	1024 × 768	70	56.48	70.0	-	-
13	1024 × 768	75	60.02	75.0	+	+
14	1024 × 768	85	68.70	85.0	+	+

RGB For Apple Standard						
Mode No.	Resolution	Refresh Rate (Hz)	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	V-Sync Polarity (TTL)	H-Sync Polarity (TTL)
15	832 × 624	75	49.7	75.00	-	-
16	1024 × 768	75	60.2	75.00	-	-

YP_BP_R for Component		
Mode	Resolution	Refresh Rate
1	480i, 480p, 720p, 1080i	60

Maximum Resolution

Up to 1280 × 768

Dimensions	With/Stand
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Width	29.53 in. (750 mm)
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Height	16.89 in. (429 mm)
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Depth	8.47 in. (215 mm)
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Weight

Net weight	24.25 lbs (11.0 kgs)
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Operating

Temperature	0~35°C (32~95°F)
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Relative humidity	10~90%
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Pressure	0~12,000 feet
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Non-Operating

Temperature	-20~60°C (-4~140°F)
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Relative humidity	10~90%
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Pressure	0~40,000 feet
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Vibration	1.0 G / 2~200 Hz (sweep), 60 min. per axis
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Sound

2 Speakers

5 W

Reliability Requirement

The MTBF is 50,000 hours under operation at 25±5°C (Half luminosity, motion picture)

Emissions Requirement

Your LCD TV meets the EMI limits in all screen modes as qualified by FCC class B part 15.

Many products for Gateway and its subsidiaries are custom engineered by our suppliers to Gateway specifications and may vary from similarly marketed products.

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