

TOSHIBA

Leading Innovation >>>

LCD Display Monitor User's Guide

TD-E432

TD-E502

TD-E552

TD-E652

Appendix A

Specifications

NOTE

- These models comply with the specifications listed below.
 - Designs and specifications are subject to change without notice.
 - These models may not be compatible with features and/or specifications that may be added in the future.
-

LCD Module

LCD Module	43"	50"	55"	65"
Screen size	43"	50"	55"	65"
Panel Type	VA	VA	VA	VA
Pixel Pitch (mm)	0.49 x 0.49	0.57 x 0.57	0.63 x 0.63	0.744 x 0.744
Resolution	1920 x 1080 pixels	1920 x 1080 pixels	1920 x 1080 pixels	1920 x 1080 pixels
Color	8 bit 1.67 million colors	8 bit 1.67 million colors	8 bit 1.67 million colors	10 bit 1.06 billion colors
Brightness (cd/m2, typ.)	450	450	450	450
Contrast ratio	3000	3000	3,500	4,000
Viewing Angle (CR>=10)	Up/Down 89° Left/Right 89°	Up/Down 89° Left/Right 89°	Up/Down 89° Left/Right 89°	Up/Down 89° Left/Right 89°
Response time	8ms (G to G)	8ms (G to G)	8ms (G to G)	8ms (G to G)

Viewable Size (H x V)

43"	940.9 x 529.3mm
50"	1095.8 x 616.4mm
55"	1209.6 x 680.4mm
65"	1428.5 x 803.5mm

Power Management

VESA DPM

Power source

	43"/50"/55"/65"
Input Voltage	AC100-240V \pm 10% (50/60Hz)
Power Consumption in Power Saving mode	Power switch off (DC-OFF, standby): <0.5W Main power switch off: 0W

Power consumption

43"	~90W
50"	~170W
55"	~180W
65"	~226W

Input/Output Signal

PC Input/Output

Input Connector	Analog	D-SUB 15-pin or YPbPr cable (YPbPr CVBS Common)
	Digital	HDMI x 2 (PC/AV Common, HDCP supported), DVI-D (HDCP supported)
Output Connector	Digital	DVI-D (HDCP supported)
Horizontal Frequency	Analog: 15.625 kHz - 67.5 kHz, Digital: 31.5 kHz - 67.5 kHz	
Vertical Frequency	50 Hz - 60 Hz	
Pixel Clock	Analog	13.5 - 148.5.0 MHz
	Digital	25.0 - 148.5.0 MHz
Video Signal	Analog: Analog RGB, Digital: TMDS (with HDCP)	
Sync Signal	Analog: Separate (TTL), Composite (TTL), Sync on Green, Digital: TMDS	

Supported Resolutions	Analog: 640 x 480, 720 x 400, 800 x 600, 1024 x 768, 1280 x 768, 1280 x 800, 1280 x 960, 1280 x 1024, 1360 x 768, 1366 x 768, 1600 x 1200, 1920 x 1080 Digital: 640 x 800, 800 x 600, 1024 x 768, 1280 x 1024, 1280 x 768, 1360 x 768, 1680 x 1050, 1920 x 1080
-----------------------	--

AV Input/Output

Input Connector	Analog	Composite (shared with Component Y/Pb/Pr), D-SUB 15-pin or YPbPr cable
	Digital	HDMI x 2 (HDCP supported), DVI-D (HDCP supported), USB
Output Connector	Digital	DVI-D (HDCP supported)
Supported Resolution	Composite/S-terminal: SDTV, DVD, HDTV Component: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p	

Audio Input/Output

Input Connector	Analog	3.5mm jack
	Digital	HDMI x 2 (digital audio)
Output Connector	Analog	3.5mm jack

Dimensions

43"	Width	38.1" (967mm)
	Height	22.4" (568mm)
	Depth	2.8" (70mm)
50"	Width	44.6" (1133mm)
	Height	25.8" (656mm)
	Depth	2.8" (70mm)
55"	Width	49" (1246mm)
	Height	28.3" (719mm)
	Depth	2.7" (69mm)
65"	Width	57.6" (1463mm)
	Height	33.2" (844.3mm)
	Depth	2.8" (70mm)

Mass (weight)

43"	Net 10.5kg (23.1lb); Gross 14.5kg (31.9lb)
50"	Net 14kg (30.8lb); Gross 20.5kg (45.1lb)
55"	Net 17kg (37.4lb); Gross 23.5kg (51.8lb)
65"	Net 24kg (52.9lb); Gross 33.5kg (73.8lb)

Table 1: Media Support Specifications (Video)

File Extension	Container	Video codec	Maximum Resolution	Max Frame Rate	Max Bit Rate	MPEG1 (L2& L3)	AC3	AAC	WMA	L-PCM	
.dat .mpg .mpeg	MPG	MPEG1	1080P	30fps	20Mbit/Sec	V	V	V		V	
	MPEG	MPEG2	1080P	30fps	20Mbit/Sec						
.ts .trp .to .m2ts	TS	MPEG2	1080P	30fps	20Mbit/Sec	V	V	V			
		H.264	1080P	30fps	20Mbit/Sec						
.vob	MPEG2-PS	MPEG2	1080P	30fps	20Mbit/Sec	V	V			V	
.mp4	MP4	MPEG4 H.264	1080P	30fps	20Mbit/Sec	V		V			
			1080P	30fps	20Mbit/Sec						
.mkv	MKV	H.264	1080P	30fps	20Mbit/Sec	V	V	V		V	
		MPEG1	1080P	30fps	20Mbit/Sec						
		MPEG2	1080P	30fps	20Mbit/Sec						
		MPEG4	1080P	30fps	20Mbit/Sec						
.avi	AVI	MPEG2	1080P	30fps	20Mbit/Sec	V	V	V		V	
		MPEG4	1080P	30fps	20Mbit/Sec						
		H.264	1080P	30fps	20Mbit/Sec						

Table 1: Media Support Specifications (Video)

File Extension	Container	Video codec	Maximum Resolution	Max Frame Rate	Max Bit Rate	MPEG1 (L2& L3)	AC3	AAC	WMA	L-PCM
Motion JPEG	"AVI, MOV"	JPEG	640x480	30fps	10Mbit/Sec					
.asf	ASF	H.264	1080P	30fps	20Mbit/Sec	V	V		V	V
		MPEG2	1080P	30fps	20Mbit/Sec					
		MPEG4	1080P	30fps	20Mbit/Sec					
		VC1	1080P	30fps	20Mbit/Sec					
		WMV3	1080P	30fps	20Mbit/Sec					
.wmv	ASF	MPEG4	1080P	30fps	20Mbit/Sec				V	

Table 2: Media Support Specifications (Audio)

File Extension	Audio codec	Bit Rate	Sample Rate
.mp3	MPEG1 Layer2	32Kbps - 448Kbps	32Khz - 48Khz
.mp3	MPEG1 Layer3	32kbps - 320Kbps	32Khz - 48Khz
N/A (works with video files only)	AC3	32kbps - 640Kbps	32Khz, 44.1Khz, 48Khz
.m4a .AAC	AAC, HEAAC	24Kbps - 384Kbps	8Khz - 48Khz
.wma .asf	WMA	128bps - 320Kbps	8Khz - 48Khz
N/A (work with video files only)	LPCM	64Kbps - 1.5 Mbps	8Khz - 48Khz

Table 3: Media Support Specifications (Photos)

File Extension	Image	Photo	Resolution
.jpg	JPEG	Base-line	15360x8640
		Progressive	1024x768

Table 3: Media Support Specifications (Photos)

File Extension	Image	Photo	Resolution
.png	PNG	non-interlace	9600x6400
		interlace	1200x800
.bmp	BMP		9600x6400

Table 4: Media Support Specifications (Internal Subtitles)

File Extension	Container	Subtitle Codec
.dat .mpg .mpeg .vob	MPG	DVD Subtitle
	MPEG	
.ts .trp .tp”	TS	DVB Subtitle
.mp4	MP4	DVB Subtitle
		UTF-8 Plain Text
.mkv	MKV	DVD Subtitle
		UTF-8 Plain Text
		ASS
		SSA
		Universal Subtitle Formate
	VobSub	
.avi	AVI	XSUB

Table 5: Media Support Specifications (External Subtitles)

File Extension	Container	Remark
.srt	SubRip	
.ssa	SubSation Alpha	
.ass	SAMI	
.smi		

Table 5: Media Support Specifications (External Subtitles)

File Extension	Container	Remark
.sub	SubViewer	SubViewer 1.0 & 2.0 Only
	MicroDVD	
	DVDSubtitleSystem	
	SubIdx(VobSub)	
.txt	TMPlayer	