

# LCD-TFT Panel Mount Monitors for industrial Applications

## LCD-TFT Module + Inverter + Interfaceboard + Panel Mount Housing

The panel mount LCD monitors are flat panel TFT monitors and can be used for a variety of specialized mounting applications. All user controls are located on monitor, making the panel mount displays a good choice for applications requiring a display with no external or exposed controls.



Type	6,4" LCD-TFT Panel Mount Monitor	8" CCTV LCD Rack Mount Monitor	8,4" LCD-TFT Panel Mount Monitor	10,4" LCD-TFT Panel Mount Monitor	10,4" LCD-TFT Panel Mount Monitor	10,4" LCD-TFT Panel Mount Monitor	12,1" LCD-TFT Panel Mount Monitor	12,1" LCD-TFT Panel / Panel Kit
<b>Features</b>								
<b>Viewing Area</b>	6,4"	8"	8,4"	10,4" TFT Active Matrix Panel	10,4" TFT Active Matrix Panel	10,4"	12,1" TFT Active Matrix Panel	
<b>Touch Panel</b>	no / resistive	no	no / resistive	no / resistive / capacitive	no / resistive / capacitive	no / resistive		no
<b>Pixel Pitch (mm)</b>	0,203 x 0,203		0,213 x 0,213	0,2055 x 0,2055	0,264 x 0,264	0,264 x 0,264	0,24 x 0,24	0,240 x 0,240
<b>Resolution</b>	640 x 480 VGA	800 x 600 SVGA	800 x 600 SVGA	1,024 x 768 XGA	800 x 600 SVGA	800 x 600 SVGA	1,024 x 768 XGA	1,024 x 768 XGA
<b>Effective Display Area (mm)</b>	129,6 x 97,4		170,4 x 127,8	210,4 x 157,8	211,2 x 158,4	211,2 x 158,4	245,8 x 184,3	245,76 x 184,32
<b>Color</b>	262k		262k	16,2M	262k	262k	262k	262,144
<b>Response Time(tr/ft)</b>	15/25ms	10/15ms	10/25ms	40ms	35ms	10/25ms	23ms	40ms
<b>Contrast Ratio</b>	400:1	500:1	500:1	800:1	500:1	500:1	700:1	550:1 (Typ.)
<b>Brightness</b>	400 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	220 cd/m <sup>2</sup>	800cd/m <sup>2</sup> / max. 1.000cd/m <sup>2</sup>	1.500 cd/m <sup>2</sup>	230 cd/m <sup>2</sup>	1.000 cd/m <sup>2</sup>	1.200 cd/m <sup>2</sup>
<b>Dimmable</b>	no		no			no		
<b>Viewing Angle</b>	T:15° B:35° L:50° R:50°	T:70° B:70° L:70° R:70°	T:60° B:40° L:60° R:60°	H:+75° ~ -75° V:+75° ~ -75°	H:+60° ~ -60° V:+40° ~ -60°	T:35° B:65° L:60° R:60°	H: 160° V: 160°	H: 75° / 75° V: 75° / 75°
<b>Backlight</b>	2 CCFL		1 CCFL	LED	6 CCFL	1 CCFL	LED	LED (Top & Bottom total 60pcs)
<b>Lamp Life</b>	20.000 hrs		20.000 hrs	50.000 hours	20.000 hrs	20.000 hrs	50.000 hours	50.000 hours
<b>Input Signal</b>	Analog VGA & Video		Analog VGA & Video	RGB Analog 0,7V Peak to Peak	Analog VGA/CRT 0,7V Peak to Peak 15 Pin D-sub 6 Video AV connector	Analog VGA & Video		
<b>Input Connector</b>	D-Sub 15 Pin, BNC Jack, S-VHS Din Type	1x S-Video In 1x Audio In 2x BNC Input	D-Sub 15 Pin, BNC Jack, S-VHS Din Type	15 Pin D-sub		D-Sub 15 Pin, BNC Jack, S-VHS Din Type		
<b>Scan Frequency</b>	H: 31,5~37,8KHz / V: 60~75Hz		H: 31,5~48 KHz/ V: 56~75Hz			H: 31,5~48 KHz/ V: 56~75 Hz		
<b>Control</b>	OSD	OSD	OSD	Brightness, Contrast, H/V Position, Color Phase, Clock,	Brightness, Contrast, H/V Position, Color Phase, Clock,	OSD	Brightness, Contrast, H/V Position, Color, Phase, Clock,	
<b>Power Supply</b>	Universal AC 100~240 V, 50/60Hz	DC 12V	Universal AC 100~240 V, 50/60Hz & DC12V			Universal AC 100~240V, 50/60Hz		
<b>Power Management</b>	VESA DPMS Standard		VESA DPMS Standard			VESA DPMS Standard		
<b>Power Supply Cable</b>								
<b>Consumption</b>	14W/ Stand by 1W	20W	11W/ Stand by 1W	17,4V, 0,8A	30W	12W/ Stand by 1W		
<b>Operating Temperature</b>	0°C~50°C	0°C~40°C	0°C~50°C			0°C~50°C	-20°C ~ +60°C	
<b>Storage Temperature</b>	-20°C~60°C	-10°C~60°C	-20°C~60°C			-20°C~60°C		
<b>Sync Signal</b>	TTL Level +/- Polarity		TTL Level +/- Polarity	LVDS	LVDS	TTL Level +/- Polarity	LVDS	LVDS
<b>Scanning</b>	Non-Interlace		Non-Interlace			Non-Interlace		
<b>Dimension (mm)</b>	212,5 x 162,5 x 65,2	190,0 x 173,0 x 25,0	235,6 x 172,6 x 58,0	340,0 x 228,0 x 54,2	340,0 x 228,0 x 54,2	270,0 x 200,0 x 59,0	272,0 x 204,6 x 13,3	280,0 x 204,0 x 9@LED
<b>Net Weight(Kg)</b>	1,6Kg		1,8Kg	3,15Kg	3,15Kg	2,0 Kg		7,1Kg
<b>Color Case</b>								
<b>Safety &amp; EMI</b>	CE (EMC+LVD) / FCC		CE (EMC+LVD) / FCC			CE (EMC+LVD) / FCC		
<b>Vibration</b>	10Hz/ One-way 1m/m		10Hz/ One-way 1m/m			10Hz/ One-way 1m/m		
<b>Pixel (MHz)</b>	31,5 MHz		50MHz			50MHz		
<b>Options</b>	TouchScreen Strengthen Glass	Rack mount bracket, Strengthen Glass	TouchScreen Strengthen Glass	S-Video/AV connector (optional)	S-Video/AV connector	TouchScreen Strengthen Glass	Anti-reflective glass AOT	
<b>Ordering Number</b>	DMXX8401/ 8402	DMXX8480	DMXX8411/ 8412	t.b.d.	DMXX3209/10/3212	DMXX8421/ 8422	t.b.d.	t.b.d.

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Available as of August 2007

Type	12,1" LCD-TFT Panel Mount Monitor Sunlightreadable	12,1" LCD-TFT Panel Mount Monitor	15" LCD-TFT Panel Mount Monitor Metal Frame	15" LCD-TFT Panel Mount Monitor Sunlightreadable	15" LCD-TFT Panel Mount Monitor Metal Frame	15" LCD-TFT Panel Mount Monitor Metal Frame	15" LCD-TFT Panel Mount Monitor Metal Frame	15" LCD-TFT Panel Mount Monitor High Brightness
<b>Viewing Area</b>	12,1" TFT Active Matrix Panel	12,1"	15" TFT Active Matrix Panel	15" TFT Active Matrix Panel	15"	15"	15,1"	15" TFT Active Matrix Panel
<b>Touch Panel</b>	no / resistive / capacitive	no / resistive		no / resistive / capacitive	no / resistive		no / resistive	no
<b>Pixel Pitch (mm)</b>	0,24 x 0,24	0,3075 x 0,3075	0,297 x 0,297	0,297 x 0,297	0,297 x 0,297	0,297 x 0,297	0,297 x 0,297	0,297 x 0,297
<b>Resolution</b>	1.024 x 768 XGA	800 x 600 SVGA	1.024 x 768	1.024 x 768	1.024 x 768 XGA	1.024 x 768	1.024 x 768	1.024 x 768
<b>Effective Display Area (mm)</b>	245,8 x 184,3	246,0 x 184,5	304,1 x 228,1	304,1 x 228,1	304,1 x 228,1	304,1 x 228,1	304,1 x 228,1	304,128 x 228,096
<b>Color</b>	262k	262k	16,2M	262k	262k	262k	262k	262k
<b>Response Time(tr/ft)</b>	50ms	10/25ms	25ms	16ms	4+12ms	5/11ms	16ms	16ms
<b>Contrast Ratio</b>	500:1	500:1	800:1	400:1	500:1	400:1	400:1	400:1
<b>Brightness</b>	1.250 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>	1.000cd/m <sup>2</sup>	1.600cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>	500 / 1.000cd/m <sup>2</sup>
<b>Dimmable</b>		no			no		no	
<b>Viewing Angle</b>	H: +70° ~ -70° V: +55° ~ -70°	T:50° B:60° L:70° R:70°	H: 160° V: 160°	H: +60° ~ -60° V: +40° ~ -60°	T:40° B:60° L:60° R:60°	T:60 B:60 L:70 R:70	H: +60° ~ -60° V: +70° ~ -70°	
<b>Backlight</b>	CCFL	2 CCFL	LED		2 CCFL	4 CCFL	CCFL -MTTH / Planon -MTTH	
<b>Lamp Life</b>		50.000 hrs	50.000 hours		50.000 hrs	50.000 hrs	50.000 / 100.000 hrs	
<b>Input Signal</b>	Analog VGA/CRT 0,7V Peak to Peak 15 Pin D-sub S-Video (AV optional)	Analog VGA & Video		Analog VGA/CRT 0,7V Peak to Peak 15 Pin D-sub 29 Pin DVI-D PAL/NTSC/S-Video (AV optional)	Analog VGA & Video	Analog VGA/CRT, No Video	VGA DVI (optional)	
<b>Input Connector</b>		D-Sub 15Pin, BNC Jack, S-VHS Din Type			D-Sub 15Pin, BNC Jack, S-VHS Din Type	D-Sub 15-Pin, BNC Jack, S-VHS Din Type		
<b>Scan Frequency</b>		H: 31,5-48 KHz/ V: 56-75 Hz			H: 31,5-60 KHz/ V: 56-75 Hz	H: 31,5-60 KHz/ V: 56-75 Hz		
<b>Control</b>	Brightness, Contrast, H/V Position, Color, Phase, Clock, Management	OSD	n.a. / Brightness, Contrast, H/V Position, Color, Phase, Clock,	Brightness, Contrast, H/V Position, Color Phase, Clock, Management	OSD	OSD		
<b>Power Supply</b>		Universal AC 100-240V, 50/60Hz & DC12V			Universal AC 100-240V, 50/60Hz	Universal AC 100-240V, 50/60Hz	12 / 24V 60Hz typ, 75Hz max.	
<b>Power Management</b>		VESA DPMS Standard			VESA DPMS Standard	VESA DPMS Standard		
<b>Power Supply Cable</b>								
<b>Consumption</b>	32W	12W / Stand by 1W		56,5W	23W / Stand by 1W	35W / Stand by 2,5W	19 / 43W	
<b>Operating Temperature</b>		0°C ~ 50°C	-20°C ~ +60°C		0°C ~ 50°C	0°C ~ 50°C	-10°C ~ 60°C	
<b>Storage Temperature</b>		-20°C-60°C			-20°C-60°C	-20°C-60°C	-25°C ~ 70°C	
<b>Sync Signal</b>	LVDS	TTL Level +/- Polarity	LVDS	LVDS	TTL Level +/- Polarity	TTL Level +/- Polarity		
<b>Scanning</b>		Non-Interlace			Non-Interlace	Non-Interlace		
<b>Dimension (mm)</b>	338,0 x 278,0 x 59,3	330,0 x 240,0 x 55,0	326,5 x 248,5 x 15,0	389,0 x 325,0 x 60,5	379,4 x 285,4 x 53,0 / 379,4 x 285,4 x 57,0	379,4 x 285,4 x 53,0 379,4 x 285,4 x 57,0	349 x 279 x 50 / 349 x 279 x 70	
<b>Net Weight(Kg)</b>	3,07Kg	3,2 Kg	1,5Kg	3,92Kg	5,0 Kg	3,9 Kg / 5,0 Kg	3,2 Kg / 4,2 Kg	
<b>Color Case</b>							Stainless steel	
<b>Safety &amp; EMI</b>		CE (EMC+LVD) / FCC		CE, FCC	CE (EMC+LVD) / FCC	CE (EMC+LVD) FCC/ ETL		
<b>Vibration</b>		10Hz/ One-way 1m/m			10Hz/ One-way 1m/m	10Hz/ One-way 1m/m	1,5G / 10-200Hz	
<b>Pixel (MHz)</b>		60 MHz			78,75 MHz	78,75 MHz		
<b>Options</b>	TouchScreen S-Video/AV connector	TouchScreen Strengthen Glass	Anti-reflective glass AOT	Light Sensor VR control	TouchScreen Strengthen Glass	TouchScreen	TouchScreen 1.000cd/m <sup>2</sup> : Heater, Automatic Brightness Control, Active Power- Management	
<b>Ordering Number</b>	DMXX3223 / 3225 / 3227	DMXX8431/ 8432	t.b.d.	DMXX3234 / 3235 / 3237	DMXX8440/ 8446	DMXX8441/ 8447	t.b.d.	

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Type	17" LCD-TFT Panel Mount Monitor Sunlightreadable	17" LCD-TFT Panel Mount Monitor Sunlightreadable	17" LCD-TFT Panel Mount Monitor High Brightness	19" LCD-TFT Panel Mount Monitor	19" LCD-TFT Panel Mount Monitor	20" LCD-TFT Panel Mount Monitor Sunlightreadable
<b>Viewing Area</b>	17" TFT Active Matrix Panel		17" TFT Active Matrix Panel	19" TFT Active Matrix Panel	19" TFT Active Matrix Panel	20" TFT Active Matrix Panel
<b>Touch Panel</b>	no / resistiv / capacitive	no / resistive / capacitive		no / resistive	no / resistive	no / resistive
<b>Pixel Pitch (mm)</b>	0,264 x 0,264	0,264 x 0,264	0,264 x 0,264	0,294 x 0,294	0,294 x 0,294	0,51 x 0,51
<b>Resolution</b>	1.280 x 1.024	1.280 x 1.024	1.280 x 1.024	1.280 x 1.024	1.280 x 1.024	800 x 600 SVGA
<b>Effective Display Area (mm)</b>	337,9 x 270,3	337,9 x 270,3	337,9 x 270,3	376,3 x 301,6	376,3 x 301,6	408,0 x 306,0
<b>Color</b>	262k	16,2M	16,7M	16,7M	16,2M	16,7M
<b>Response Time(tr/ft)</b>	16ms	12ms	6/17ms	20ms	6ms	16ms
<b>Contrast Ratio</b>	500:1	500:1	400:1	800:1	700:1	500:1
<b>Brightness</b>	1.000 cd/m <sup>2</sup>	1.200 cd/m <sup>2</sup>	800 cd/m <sup>2</sup>	700 cd/m <sup>2</sup>	1.000 cd/m <sup>2</sup>	1.000 cd/m <sup>2</sup>
<b>Dimmable</b>						
<b>Viewing Angle</b>	H: +80° ~ -80° V: +75° ~ -75°	H: +70° ~ -70° V: +65° ~ -65°	H: +60° ~ -60° V: +70° ~ -70°	H: +85° ~ -85° V: +85° ~ -85°	H: +70° ~ -70° V: +70° ~ -60°	H: +85° ~ -85° V: +85° ~ -80°
<b>Backlight</b>						
<b>Lamp Life</b>			100.000 hrs	50.000 hrs		
<b>Input Signal</b>	Analog VA/CRT 0,7V Peak to Peak 15 Pin D-sub 29 Pin DVI-D S-Video/AV connector	Analog VA/CRT 0,7V Peak to Peak 15 Pin D-sub 29 Pin DVI-D	VGA DVI (optional)	RGB/DVI 15 Pin D-sub 29 Pin DVI-D	Analog VA/CRT 0,7V Peak to Peak 15 Pin D-sub 29 Pin DVI-D S-Video/AV connector	15 Pin D-sub BNC Video Out Jack S-Video / AV / Component S-Video/AV connector
<b>Input Connector</b>						
<b>Scan Frequency</b>				H: 31~80KHz / V: 56~75Hz		
<b>Control</b>	Brightness, Contrast, H/V Position, Color, Phase, Clock, Management	Brightness, Contrast, H/V Position, Color, Phase, Clock, Management		Brightness, Contrast, H/V Position, Color, Phase, Clock, Management	Brightness, Contrast, H/V Position, Color, Phase, Clock, Management	Brightness, Contrast, H/V Position, Color, Phase, Clock, Management
<b>Power Supply</b>			24V 60Hz typ, 75Hz max.	Universal AC 100~240 V, 50/60Hz		Universal AC 100~240 V, 50/60Hz
<b>Power Management</b>						
<b>Power Supply Cable</b>						
<b>Consumption</b>	65 W	65 W	78W	70W	80W	80W
<b>Operating Temperature</b>			0°C ~ 50°C	0°C ~ 50°C		0°C ~ 50°C
<b>Storage Temperature</b>			-20°C ~ 60°C			
<b>Sync Signal</b>	LVDS	LVDS			LVDS	TTL Positiv or Negativ
<b>Scanning</b>						
<b>Dimension (mm)</b>	436,0 x 373,0 x 61,5	436,0 x 373,0 x 61,5	454 x 380 x 82	418,30 x 343,05 x 52,90	418,30 x 343,05 x 52,90	507,00 x 415,00 x 63,1
<b>Net Weight(Kg)</b>	4,86Kg	4,86Kg	5,2 Kg	7,0Kg	7,0Kg	8,08Kg
<b>Color Case</b>			Stainless steel			
<b>Safety &amp; EMI</b>						
<b>Vibration</b>			1,5G / 10-200Hz			
<b>Pixel (MHz)</b>						135 MHz
<b>Options</b>	TouchScreen	TouchScreen	TouchScreen	VESA mount/Rotatable stand	Anti-glare glass	Remote Control
<b>Ordering Number</b>	DMXX3240/ 3241/ 3243	t.b.d.	t.b.d.	DMXX3250/3251	DMXX3252/3253	DMXX3260/ 3261

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