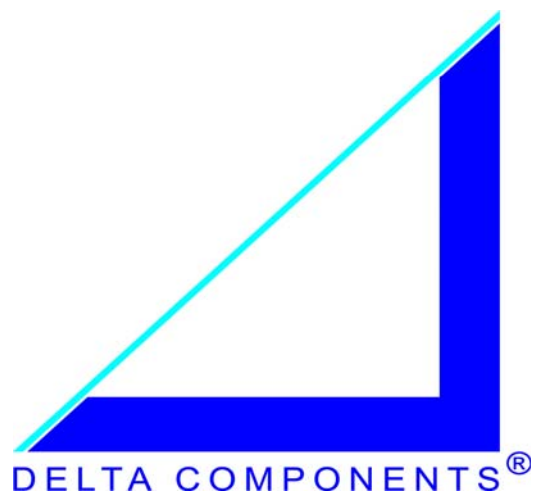


Selection Guide LCD-TFT Monitors



DELTA COMPONENTS

Selection Guide: LCD Monitors



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LCD TFT Panels & Panel Kits

for Industrial & Sunlight Readable Applications

LCD-TFT Panel = TFT Module + Inverter

LCD-TFT Panel Kit = TFT Module + Inverter + Interfaceboard



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LCD-TFT Monitor Compact Modules

LCD-TFT Display + Inverter + Interfaceboard with OSD-Kit



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LCD-TFT Open Frame Monitors

for Industrial Applications

LCD-TFT Module + Inverter + Interfaceboard + Open Frame Housing



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LCD-TFT Panel Mount Monitors

for Industrial Applications

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



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LCD-TFT Panel Wall Monitors

Panel Mount Monitors for Wall Matrix Mount



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LCD-TFT Monitors IP68, IP65 front

for Industrial Applications

LCD-TFT Module + Inverter + Interfaceboard + Panel Mount Housing, IP68 Monitors, IP65 front



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for Low-Cost Car Applications



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DeltaVarioMon LCD-TFT Monitors

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LCD-TFT Panels & Panel Kits for Industrial & Sunlight Readable Applications

LCD-TFT Panel = TFT Module + Inverter

LCD-TFT Panel Kit = TFT Module + Inverter + Interfaceboard

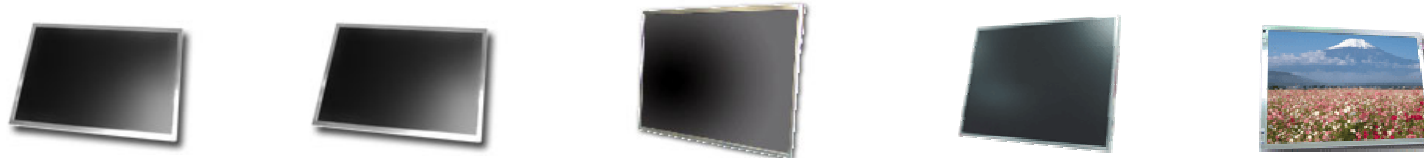


Type	7" TFT LCD Panel / Panel Kit	10,4" TFT LCD Panel / Panel Kit	10,4" TFT LCD Panel / Panel Kit	12,1" TFT LCD Panel / Panel Kit
Features				
Viewing Area	7,0" / 177,8mm 16:9	10,4" TFT Active Matrix Panel	10,4" TFT Active Matrix Panel	12,1" TFT Active Matrix Panel
Touch Panel (mm)	without TouchScreen	without TouchScreen	without TouchScreen	without TouchScreen
Pixel Pitch(mm)	0,107 x 0,370	0,264 x 0,264	0,2055 x 0,255	0,24 x 0,24
Resolution	480 x 234 QVGA	800 x 600 SVGA	1024 x 768 XGA	1024 x 768 XGA
Effective Display Area (mm)	154,1 x 86,6	211,2 x 158,4	210,4 x 157,8	245,8 x 184,3
Color		262k	262k	262k
Response Time(tr/ff)		35ms	34ms (typ.)	50ms
Contrast Ratio		500:1	450:1	500:1
Brightness	1000 cd/m ²	1500 cd/m ²	1300 cd/m ²	1250 cd/m ²
Dimmable				
Viewing Angle		H: +60° ~ -60° V: +40° ~ -60°	H: +80° ~ -80° V: +80° ~ -80°	H: +70° ~ -70° V: +55° ~ -70°
Backlight		6 CCFL	4 CCFL	
Lamp Life				
Input Signal		RGB Analog 0,7V Peak to Peak S-Video	RGB Analog 0,7V Peak to Peak S-Video	RGB Analog 0,7V Peak to Peak S-Video
Input Connector		no / 15 Pin D-sub	no / 15 Pin D-sub	no / 15 Pin D-sub
Scan Frequency				
Control		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
Power Supply				
Power Management				
Power Supply Cable				
Consumption		25W/ 30W	25W/ 30W	28W/ 32W
Operating Temperature				
Storage Temperature				
Sync Signal	LVDS	LVDS	LVDS	LVDS
Scanning				
Dimension (mm)	168,7 x 104,3 x 6,0	283,0 x 184,0 x 27,2	238,1 x 177,4 x 11,0	277,4 x 204,6 x 27,0
Net Weight(Kg)	0,2Kg	0,7Kg/ 0,8Kg	0,6 Kg/ 0,7Kg	0,8Kg/ 0,8Kg
Color Case	---	---	---	---
Safety & EMI				
Vibration				
Pixel (MHz)				
Options				
Ordering Number	DMXX3002/3102	DMXX3010/ 3110	DMXX3011/ 3111	DMXX3021/ 3121

LCD-TFT Panels & Panel Kits for Industrial & Sunlight Readable Applications

LCD-TFT Panel = TFT Module + Inverter

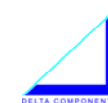
LCD-TFT Panel Kit = TFT Module + Inverter + Interfaceboard



Type	15" TFT LCD Panel / Panel Kit	15" TFT LCD Panel / Panel Kit	17" TFT LCD Panel / Panel Kit	19" TFT LCD Panel / Panel Kit	20,1" TFT LCD Panel / Panel Kit
Features					
Viewing Area	15" TFT Active Matrix Panel	15" TFT Active Matrix Panel	17" TFT Active Matrix Panel	19" TFT Active Matrix Panel	20,1" TFT Active Matrix Panel
Touch Panel (mm)	without TouchScreen	without TouchScreen	without TouchScreen	without TouchScreen	without TouchScreen
Pixel Pitch(mm)	0,297 x 0,297	0,297 x 0,297	0,264 x 0,264	0,294 x 0,294	0,51 x 0,51
Resolution	1024 x 768	1024 x 768	1280 x 1024	1280 x 1024	800 x 600 SVGA
Effective Display Area (mm)	304,1 x 228,1	304,1 x 228,1	337,9 x 270,3	376,3 x 301,1	408,0 x 306,0
Color	262k	262k	262k	16,7 Mio	262k
Response Time(tr/tf)	16ms	16ms	16ms	20ms	16ms
Contrast Ratio	400:1	400:1	500:1	800:1	500:1
Brightness	800 cd/m ²	1600cd/m ²	1000 cd/m ²	700 cd/m ²	100cd/m ²
Dimmable					
Viewing Angle	H: +70° ~ -70° V: +50° ~ -70°	H: +70° ~ -70° V: +50° ~ -70°	H: +80° ~ -80° V: +75° ~ -75°	H: +85° ~ -85° V: +85° ~ -80°	H: +85° ~ -85° V: +85° ~ -80°
Backlight					
Lamp Life					
Input Signal	RGB Analog 0,7V Peak to Peak S-Video	RGB Analog 0,7V Peak to Peak S-Video	RGB Analog 0,7V Peak to Peak S-Video	RGB Analog 0,7V Peak to Peak S-Video	RGB Analog 0,7V Peak to Peak S-Video
Input Connector	no / 15Pin D-sub 24Pin DVI	no / 15Pin D-sub 24Pin DVI	no / 15Pin D-sub 29Pin DVI	no / 15Pin D-sub 29Pin DVI	no / 15Pin D-sub 29Pin DVI
Scan Frequency					
Control	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
Power Supply					
Power Management					
Power Supply Cable					
Consumption	51,5W/ 56,5W	51,5W/ 56,5W	60W / 65 W	63W / 68W	66W/ 68W
Operating Temperature					
Storage Temperature					
Sync Signal	LVDS	LVDS	LVDS	LVDS	TTL Positiv or Negativ
Scanning					
Dimension (mm)	326,5 x 253,5 x 19,5	326,5 x 253,5 x 19,5	358,5 x 296,5 x 29,0	404,6 x 330,0 x 23,5	448,0 x 347,0 x 28,0
Net Weight(Kg)	1,7Kg/ 1,8Kg	1,7Kg/ 1,8Kg	1,7Kg/ 1,9Kg	2,1Kg/ 2,5Kg	2,5Kg/ 2,7Kg
Color Case	---	---	---	---	
Safety & EMI					
Vibration					
Pixel (MHz)					
Options					
Ordering Number	DMXX3030/ 3130	DMXX3031/ 3131	DMXX3040/ 3140	DMXX3050/ 3150	DMXX3060/ 3160

LCD-TFT Monitor Compact Modules

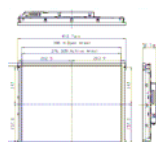
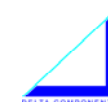
LCD-TFT Display + Inverter + Interfaceboard with OSD-Kit



Type	15" Smart Panel	15" Compact Module	15" Compact Panel	17" Smart Panel
Features				
Viewing Area	15"	15"	15"	17"
Touch Panel	no / yes	no	no	no / yes
Pixel Pitch (mm)	0,297 x 0,297		0,297 x 0,297	0,264 x 0,264
Resolution	1024 x 768	1.024 x 768	1.024 x 768	1280 x 1024
Effective Display Area (mm)		304,13 x 228,10	304,1 x 228,1	
Color	16 Mio.	16,2 Mio	16,2 Mio	16 Mio.
Response Time(tr/ta)	23ms / 23ms	25ms	tr 5ms / ta 20ms	14ms
Contrast Ratio	450:1	500:1	400 : 1	350:1
Brightness	380 cd/m ²	400 cd/m ²	430 cd/m ²	350 cd/m ²
Dimmable				
Viewing Angle	H: 120° / V: 110°	H: 65° / 65°, V:45° / 65°	H: 70° / 70°, V: 50° / 60°	H: 160° / V:120°
Backlight	3 CCFL		4 CCFL (2 Dual)	4 CCFL
Lamp Life				
Input Signal		VGA/CRT	Video / Sync	
Input Connector			DC Jack, 15Pin D-Sub	
Scan Frequency	H: 120° V: 110°			H: 160° V:120°
Control			OSD	
Power Supply			12 VDC	
Power Management			VESA DPMS standard	
Power Supply Cable				
Consumption		30W	27W max .	
Operating Temperature	+5°C - +45°C		0°C - 50°C	+5°C - +45°C
Storage Temperature	-20°C - +55°C		-25°C - +60°C	-20°C - +55°C
Sync Signal		H: 31,5 - 80KHz V: 60 - 75Hz	H: 31 - 60 KHz V: 55 - 75 Hz	
Scanning				
Dimension (mm)	342,0 x 336,0 x 22,0 342,0 x 336,0 x 44,0	331,6 x 254,7 x 22,9	331,6 x 254,9 x 12,5	371,0 x 290,5 x 51,5
Net Weight(Kg)	2,3 Kg	1,9 kg		3,5 Kg
Color Case				
Safety & EMI				
Vibration			1,5 G (non-operating)	
Pixel (MHz)				
Option	up to 1500 cd/m ²	Cable Kit AC power supply Connectoradapter		up to 1000 cd/m ²
Ordering Number	DMXX 5500/ 5501	DMXX5530	DMXX5570	DMXX 5510 / 5511

LCD-TFT Monitor Compact Modules

LCD-TFT Display + Inverter + Interfaceboard with OSD-Kit



Type	17" Compact Module	17" Compact Panel	19" Smart Panel	19" Compact Module	19" Compact Panel
Features					
Viewing Area	17"	17"	19"	19"	19"
Touch Panel	no	no	no / yes	no	no
Pixel Pitch (mm)		0,264 x 0,264	0,294 x 0,294		0,294 x 0,294
Resolution	1.280 x 1.024	1.280 x 1.024	1280 x 1024	1.280 x 1.024	1.280 x 1.024
Effective Display Area (mm)	337,92 x 270,34	337,92 x 270,336		376,32 x 301,06	376,32 x 301,06
Color	16,2 Mio	16,2 Mio	16Mio.	16,7 Mio	16,7 Mio
Response Time(tr/TF)	12ms	tr 2ms / tf 6ms	23ms / 23ms	25ms	tr 13ms / tf 7ms
Contrast Ratio	450:1	700 : 1	800:1	500:1	1000 : 1
Brightness	300 cd/m ²	300 cd/m ²	300 cd/m ²	250 cd/m ²	250 cd/m ²
Dimmable					
Viewing Angle	H: 75° / 75°, V:75° / 55°	H: 75° / 75°, V: 75° / 60°	H: 170°/ V: 170°	H: 88° / 88°, V:88° / 88°	H: 89° / 89°, V: 89° / 89°
Backlight		4 CCFL (2 Dual)	6 CCFL		4 CCFL (2 Dual)
Lamp Life					
Input Signal	VGA/CRT	Video / Sync		VGA/CRT	Video / Sync
Input Connector		DC Jack, 15Pin D-Sub			DC Jack, 15Pin D-Sub
Scan Frequency			H: 120° V: 120°		
Control		OSD			OSD
Power Supply		12 VDC			
Power Management		Supports VESA DPMS			Supports VESA DPMS
Power Supply Cable					
Consumption	35W	31W max.		40W	34W max.
Operating Temperature		0°C - 50°C	0°C - 50°C		0°C - 50°C
Storage Temperature		-25°C - +60°C	0°C - 50°C		-25°C - +60°C
Sync Signal	H: 31,5 - 80KHz V: 60 - 75Hz	H: 56,7 - 82 KHz V: 55 - 77 Hz		H: 31,5 - 80KHz V: 60 - 75Hz	H: 51 - 86 KHz V: 49 - 76 Hz
Scanning					
Dimension (mm)	358,5 x 296,5 x 27	358.5 x 296.5 x 17.5	412,7 x 329,1 x 52,1	404,2 x 33,0 x 29	396.5 x 324.5 x 18
Net Weight(Kg)	2,6 kg		4,6 Kg	3,6 kg	
Color Case					
Safety & EMI					
Vibration		1,5 G (non-operating)			1,5 G (non-operating)
Pixel (MHz)					
Option	Cable Kit AC power supply Connectoradapter		Different TouchScreen up to 500cd/m ²	Cable Kit AC power supply Connectoradapter	
Ordering Number	DMXX5540	DMXX5580	DMXX 5520 / 5521	DMXX5550	DMXX5590

LCD-TFT Open Frame Monitors for Industrial Applications

LCD-TFT Module + Inverter + Interfaceboard + Open Frame Housing



Type	6,4" Reflective Sunlightreadable Open Frame TFT LCD Monitor	6,4" Aluminium Open Frame TFT LCD Monitor	8,4" Sunlightreadable Open Frame TFT LCD Monitor	8,4" Aluminium Open Frame TFT LCD Monitor	10,4" Sunlightreadable Open Frame TFT LCD Monitor	10,4" Sunlightreadable Open Frame TFT LCD Monitor
Features						
Viewing Area	6,4"	6,4"	8,4"	8,4"	10,4"	10,4"
Touch Panel	no / resistive	no	no / resistive / capacitive / SAW	no	no / IR / SAW	no / IR / SAW
Pixel Pitch (mm)	0,203 x 0,203	0,203 x 0,203	0,213 x 0,213	0,203 x 0,203	0,33 x 0,33	0,264 x 0,264
Resolution	640 x 480	640 x 480 VGA	800 x 600 SVGA	800 x 600 SVGA	640 x 480 VGA	800 x 600 SVGA
Effective Display Area (mm)	129,6 x 97,44	129,6 x 97,4	170,4 x 127,8	170,4 x 127,8	211,2 x 158,4	211,2 x 158,4
Color	262k	262k	262k	262k	262k	262k
Response Time(tr/tf)	80ms	30/50ms	50ms	20/30ms		
Contrast Ratio	120:1	120:1	300:1	200:1	300:1	350:1
Brightness	375/1200 cd/m ²	300 cd/m ²	430/1200 cd/m ²	230 cd/m ²	475/1000 cd/m ²	430/1150 cd/m ²
Dimmable	no	no	no	no	no	no
Viewing Angle	T:15° B:35° L:55° R:55°	T:15° B:35° L:55° R:55°	T:30° B:60° L:50° R:50°	T:30° B:10° L:40° R:40°	T:60° B:60° L:50° R:40°	T:60° B:60° L:60° R:40°
Backlight		2 CCFL		1 CCFL		
Lamp Life		20.000 hrs		20.000 hrs		
Input Signal	Analog VGA optional: Video Composite , S-Video	Analog VGA & Video (Composite Video System PAL/ NTSC/ SECAM)	Analog VGA optional: Video Composite , S-Video	Analog VGA & Video (Composite Video System PAL/ NTSC/ SECAM)	Analog VGA optional: Video Composite , S-Video	Analog VGA optional: Video Composite , S-Video
Input Connector	D- Sub 15 Pin, optional: BNC Jack, S-VHS Din Type	D- Sub 15 Pin, BNC Jack, S-VHS Din Type	D- Sub 15 Pin, optional: BNC Jack, S-VHS Din Type	D-Sub 15Pin, BNC Jack, S-VHS Din Type	D- Sub 15 Pin, optional: BNC Jack, S-VHS Din Type	D- Sub 15 Pin, optional: BNC Jack, S-VHS Din Type
Scan Frequency	H: 35,1~48,1KHz / V: 56~75Hz	H: 31,5~37,5KHz / V: 60~72Hz	H: 35,1~48,1KHz / V: 56~75Hz	H: 31,5~37,5KHz / V: 56~85Hz	H: 31,5~37,9KHz / V: 60~75Hz	H: 35,1~48,1KHz / V: 56~75Hz
Control		OSD		OSD		
Power Supply	AC100-240V, Universal +-10%	DC 12V, 20V~36V / 2A	AC100-240V, Universal +-10%	DC 12V, 20V~36V / 2A	AC100-240V, Universal +-10%	AC100-240V, Universal +-10%
Power Management	VESA DPMS Compliant	VESA DPMS Standard	VESA DPMS Compliant	VESA DPMS Standard	VESA DPMS Compliant	VESA DPMS Compliant
Power Supply Cable						
Consumption	25W (typ.)	16W/ Stand by 2,5W	25W (typ.)	18W/ Stand by 2,5W	18W (typ.)	18W (typ.)
Operating Temperature		0°C-50°C		0°C-50°C		
Storage Temperature		-20°C-60°C		-20°C-60°C		
Sync Signal		TTL Level +/- Polarity		TTL Level +/- Polarity		
Scanning		Non-Interface		Non-Interface		
Dimension (mm)	200 x 165 x 40	210,9 x 154,8 x 55,2 223,5 x 167,4 x 63,6	240 x 160 x 45	224,8 x 154,8 x 51,8 239,4 x 167,4 x 60,2	261 x 216 x 35,5	261 x 216 x 35,5
Net Weight(Kg)		0,7 Kg		0,8 Kg		
Color Case						
Safety & EMI		CE (EMC+LVD) / FCC		CE (EMC+LVD) / FCC		
Vibration		10Hz/ One-way 1m/m		10Hz/ One-way 1m/m		
Pixel (MHz)		31,5 MHz		56,25 MHz		
Options	Front Bezel	small frame	Front Bezel	small frame	Front Bezel	Front Bezel
Ordering Number	DMXX6200/DMXX6201	DMXX8467 / DMXX8468	DMXX6210/DMXX6211	DMXX8460 / DMXX8469	DMXX6220/DMXX6221/DMXX6222	TBD.

LCD-TFT Open Frame Monitors for Industrial Applications

LCD-TFT Module + Inverter + Interfaceboard + Open Frame Housing



Type	10,4" Aluminium Open Frame TFT LCD Monitor	12,1" Transflective Sunlightreadable Open Frame TFT LCD Monitor	12,1" Reflective Sunlightreadable Open Frame TFT LCD Monitor	12,1" Aluminium Open Frame TFT LCD Monitor	15" Transflective Sunlightreadable Open Frame TFT LCD Monitor	15" Aluminium Open Frame
Features						
Viewing Area	10,4"	12,1"		12,1"	15"	15"
Touch Panel	no	no/Resistive/Capacitive	no/Resistive/Capacitive	no	no/Resistive/Capacitive	no
Pixel Pitch (mm)	0,264 x 0,264	0,240 x 0,240	0,3075 X 0,3075	0,3075 x 0,3075	0,297 x 0,297	0,297 x 0,297
Resolution	800 x 600 SVGA	1024 x 768 XGA	800 x 600 SVGA	800 x 600 SVGA	1024 x 768 XGA	1024 x 768 XGA
Effective Display Area (mm)	211,2 x 158,4	245,76 x 184,32	246,0 x 184,5	246,0 x 184,5	304,1 x 228,1	304,1 x 228,1
Color	262k	262k	262k	262k	262k	262k
Response Time(tr/tf)	20/30ms	40ms	50ms	30/20ms	16ms	5/11ms
Contrast Ratio	250:1	300:1	350:1	300:1	400:1	400:1
Brightness	250 cd/m ²	430/1200	430/1200	340 cd/m ²	600/1200 cd/m ²	500 cd/m ²
Dimmable	no	no	no	no	no	no
Viewing Angle	T:30° B:10° L:40° R:40°	T:60° B:60° L:50° R:40°	T:60° B:60° L:50° R:40°	T:20° B:40° L:50° R:50°	T:70° B:70° L:60° R:60°	T:40° B:60° L:60° R:60°
Backlight	1 CCFL			2 CCFL		2 CCFL
Lamp Life	20.000 hrs			50.000 hrs		50.000 hrs
Input Signal	Analog VGA & Video (Composite Video System PAL/ NTSC/ SECAM)	Analog VGA	Analog VGA optional: Video Composite , S-Video	Analog VGA & Video (Composite Video System PAL/ NTSC/ SECAM)	Analog VGA optional: Video Composite , S-Video	Analog VGA & Video (Composite Video System PAL/ NTSC/ SECAM)
Input Connector	D-Sub 15Pin, BNC Jack, S-VHS Din Type	D-Sub 15Pin	D- Sub 15 Pin, optional: BNC Jack, S-VHS Din Type	D-Sub 15Pin, BNC Jack, S-VHS Din Type	D- Sub 15 Pin, optional: BNC Jack, S-VHS Din Type	D-Sub 15Pin, BNC Jack, S-VHS Din Type
Scan Frequency	H: 31,5–53 KHz/ V: 56–85 Hz	H: 35,1–48,1KHz / V: 56–75Hz		H: 31,5–53 KHz/ V: 56–85 Hz	H: 48,4–60 KHz/ V: 60–75 Hz	H: 31,5–60 KHz/ V: 56–75 Hz
Control	OSD			OSD		OSD
Power Supply	DC 12V, 20V~36V / 2A	AC100-240V, Universal +-10%	AC100-240V, Universal +-10%	DC 12V, 20V~36V / 2A	AC100-240V, Universal +-10%	DC 12V, 20V~36V / 2A
Power Management	VESA DPMS Standard	VESA DPMS Compliant	VESA DPMS Compliant	VESA DPMS Standard	VESA DPMS Compliant	VESA DPMS Standard
Power Supply Cable						
Consumption	18W/ Stand by 2,5W	18W (typ.)	38W (typ.)	25W / Stand by 2,5W	33W (typ.)	35W / Stand by 2,5W
Operating Temperature	0°C-50°C			0°C-50°C		0°C-50°C
Storage Temperature	-20°C-60°C			-20°C-60°C		-20°C-60°C
Sync Signal	TTL Level +/- Polarity			TTL Level +/- Polarity		TTL Level +/- Polarity
Scanning	Non-Interlace			Non-Interlace		Non-Interlace
Dimension (mm)	258,0 x 196,0 x 52,9 280,0 x 208,6 x 61,3	300 x 250 x 38,5	300 x 250 x 38,5	299,5 x 236,5 x 51,6	358 x 292,5 X 50	354,2 x 266,2 x 49,1 368,0 x 280,0 x 59,4
Net Weight(Kg)	0,8 Kg			1,4Kg		2,4 Kg
Color Case						
Safety & EMI	CE			CE (EMC+LVD) FCC		CE (EMC+LVD) FCC/ ETL
Vibration	10Hz/ One-way 1m/m			10Hz/ One-way 1m/m		10Hz/ One-way 1m/m
Pixel (MHz)	56,25 MHz			56,25 MHz		56,25 MHz
Options	small frame	Front Bezel	Front Bezel	small frame	Front Bezel	small frame
Ordering Number	DMXX8464 / DMXX8470	DMXX6230/DMXX6235	DMXX6231/DMXX6236	DMXX8462 / DMXX8463	DMXX6240/DMXX6241/DMXX624	DMXX8466 / DMXX8472

LCD-TFT Open Frame Monitors for Industrial Applications

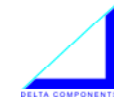
LCD-TFT Module + Inverter + Interfaceboard + Open Frame Housing



Type	15" Aluminium Open Frame	15" Panel Wall Display Open Frame Design	15" Display Open Frame Design	17" Reflective Sunlightreadable Open Frame TFT LCD Monitor	17" Display Open Frame Design	19" Transflective Sunlightreadable Open Frame TFT LCD Monitor
Features						
Viewing Area	15"	15" TFT Active Matrix Panel	15" TFT Active Matrix Panel	17"	17" TFT Active Matrix Panel	19"
Touch Panel	no	without TouchScreen LiYi resistiv with 3 M resistiv with 3 M kapazitiv	without TouchScreen LiYi resistiv with 3 M resistiv with 3 M kapazitiv	no/IR	without TouchScreen LiYi resistiv with 3 M resistiv with 3 M kapazitiv	no/resistive/capacitive/SAW/IR
Pixel Pitch (mm)	0,297 x 0,297	0,297 x 0,297	0,297 x 0,297	0,264 x 0,264	0,264 x 0,264	0,294 x 0,294
Resolution	1024 x 768 XGA	1024 x 768 XGA	1024 x 768	1280 x 1024 SXGA	1280 x 1024 SXGA	1280 x 1024 SXGA
Effective Display Area (mm)	304,1 x 228,1	304,1 x 228,1	304,1 x 228,1	337,9 x 270,3	337,9 x 270,3	376,32 x 301,056
Color	262k	262k	262k	16M	262k	16,7M
Response Time(tr/ff)	5/11ms	16ms (Typ.)	16ms		16ms (Typ.)	
Contrast Ratio	400:1	400:1	400:1	500:1	450:1	600:1
Brightness	500 cd/m ²	250 cd/m ²	350 cd/m ²	300/1200 cd/m ²	350 cd/m ²	300/1200 cd/m ²
Dimmable	no					
Viewing Angle	T:40° B:60° L:60° R:60°	H: +60° ~ -60° V: +40° ~ -60°	H: +60° ~ -60° V: +40° ~ -60°	T:85° B:85° L:85° R:85°	H: +70° ~ -70° V: +70° ~ -70°	T:85° B:85° L:85° R:85°
Backlight	2 CCFL	2 CCFL				
Lamp Life	50.000 hrs					
Input Signal	Analog VGA & Video/ No Video			Analog VGA optional: Video Composite , S-Video		Analog VGA optional: Video Composite , S-Video
Input Connector	D-Sub 15Pin, BNC Jack, S-VHS Din Type			D- Sub 15 Pin, optional: BNC Jack, S-VHS Din Type		D- Sub 15 Pin, optional: BNC Jack, S-VHS Din Type
Scan Frequency	H: 31,5-60 KHz/ V: 56-75 Hz		60 Hz (typ.) 75 (max.)	H: 31,5-80 KHz/ V: 56-75 Hz		H: 64,0-80 KHz/ V: 60-75 Hz
Control	OSD					
Power Supply	DC 12V, 20V~36V / 2A	3,3V	3,3V	AC100-240V, Universal +-10%	+ 5,0V	AC100-240V, Universal +-10%
Power Management	VESA DPMS Standard			VESA DPMS Compliant		VESA DPMS Compliant
Power Supply Cable						
Consumption	35W / Stand by 2,5W	20w (Typ.) @mA (All White Pattern)		32w (typ.)	30w (Typ.) (w/o Inverter, All White pattern)	41W (typ.)
Operating Temperature	0°C-50°C	0°C ~ +50°C	0°C ~ 50°C		0°C ~ +50°C	
Storage Temperature	-20°C-60°C	-20°C ~ +60°C	-20°C ~ 60°C		-20°C ~ +60°C	
Sync Signal	TTL Level +/- Polarity	LVDS (1 ch)			Even/ Odd/ G/B Data, 3 Sync Signal, Clock	
Scanning	Non-Interlace					
Dimension (mm)	354,2 x 266,2 x 49,1 368,0 x 280,0 x 59,4	331,0 x 275,5 x 44,8	402,4 x 314,0 x 47,7	410 x 331 x 58	365,9 x 325,0 x 48,3	445 x 355 x 55
Net Weight(Kg)	2,4 Kg	3,27 Kg (Typ.)	3,5 Kg (Typ.)		4,71 Kg (Typ.)	
Color Case		---	---		---	
Safety & EMI	CE (EMC+LVD) FCC/ ETL					
Vibration	10Hz/ One-way 1m/m					
Pixel (MHz)	56,25 MHz					
Options	small frame			Front Bezel		
Ordering Number	DMXX8471 / DMXX8474	DMXX3310/ 3311/ 3312/ 3313	DMXX3314/ 3315/ 3316/ 3317	DMXX6250/DMXX6251	DMXX3320/ 3321/ 3322/ 3323	DMXX6260/

LCD-TFT Open Frame Monitors for Industrial Applications

LCD-TFT Module + Inverter + Interfaceboard + Open Frame Housing



Type	19" Display Open Frame Design	31,5" Display Open Frame Design
Features		
Viewing Area	19" TFT Active Matrix Panel	31,5"
Touch Panel	without TouchScreen LiYi resistiv with 3 M resistiv with 3 M kapazitiv	without TouchScreen LiYi resistiv with 3 M resistiv with 3 M kapazitiv
Pixel Pitch (mm)	0,294 x 0,294	0,51075 x 0,51075
Resolution	1280 x 1024 SXGA	1366 x 768 WXGA
Effective Display Area (mm)	376,3 x 301,1	697,7 x 392,6
Color	16,7 Mio	16,7 Mio.
Response Time(tr/ff)	25ms (Typ.)	24ms
Contrast Ratio	700:1	800:1
Brightness	250 cd/m ²	500 cd/m ²
Dimmable		
Viewing Angle	H: +85° ~ -85° V: +85° ~ -85°	H: +85° ~ -85° V: +85° ~ -85°
Backlight		
Lamp Life		
Input Signal		
Input Connector		
Scan Frequency		Hf: 80KHz Vf: 56 ~ 75 Hz
Control		
Power Supply	+ 5,0V	
Power Management		
Power Supply Cable		
Consumption	50w (Typ.) (w/o Inverter, All white pattern)	200W
Operating Temperature	0°C ~ +50°C	0°C ~ 50°C
Storage Temperature	-20°C ~ +60°C	
Sync Signal	LVDS	LVDS
Scanning		
Dimension (mm)	410,8 x 354,4 x 50,5	820,0 x 530,0 x 110,6
Net Weight(Kg)	5,2 Kg (Typ.)	20,6 Kg/ 23,2 Kg
Color Case	---	---
Safety & EMI		
Vibration		
Pixel (MHz)		
Options		
Ordering Number	DMXX3330/ 3331 / 3332/ 3333	DMXX3340/ 3341/ 3342/ 3343

LCD-TFT Panel Mount Monitors for industrial Applications

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



Type	6,4"	7" LCD-TFT Einbaumontor 16:9, sunlight-readable	8,4"	10,4"	10,4" LCD-TFT Einbaumontor, sunlight- readable	10,4" LCD-TFT Einbaumontor, sunlight- readable
Features	TFT LCD Einbaumontor	16:9, sunlight-readable	TFT LCD Einbaumontor	TFT LCD Einbaumontor	Einbaumontor, sunlight- readable	Einbaumontor, sunlight- readable
Viewing Area	6,4"	7,0" / 177,8mm 16:9	8,4"	10,4"	10,4" TFT Active Matrix Panel	10,4" TFT Active Matrix Panel
Touch Panel	no/ELO resistive	without TouchScreen	no/ELO resistive	no/ELO resistive	without TouchScreen with 3 M resistiv with 3 M kapazitiv	without TouchScreen with 3 M resistiv with 3 M kapazitiv
Pixel Pitch (mm)	0,203 x 0,203	0,107 x 0,370	0,203 x 0,203	0,264 x 0,264	0,264 x 0,264	0,2055 x 0,255
Resolution	640 x 480 VGA	480 x 234 QVGA	800 x 600 SVGA	800 x 600 SVGA	800 x 600 SVGA	1024 x 768 XGA
Effective Display Area (mm)	129,6 x 97,4	154,1 x 86,6	170,4 x 127,8	211,2 x 158,4	211,2 x 158,4	210,4 x 157,8
Color	262k		262k	262k	262k	262k
Response Time(tr/ft)	30/50ms		20/30ms	20/30ms	35ms	34ms / 34ms
Contrast Ratio	120:1		200:1	250:1	500:1	450:1
Brightness	300 cd/m ²	1000 cd/m ²	230 cd/m ²	260 cd/m ²	1500 cd/m ²	1300 cd/m ² +/- 15%
Dimmable	no		no	no		
Viewing Angle	T:15° B:35° L:55° R:55°		T:55° B:20° L:45° R:45°	T:20° B:50° L:50° R:50°	H:+60° ~ -60° V:+40° ~ -60°	H: +80° ~ -80° V: +80° ~ -80°
Backlight	2 CCFL		1 CCFL	1 CCFL	6 CCFL	4 CCFL
Lamp Life	20.000 hrs		20.000 hrs	20.000 hrs		
Input Signal	Analog VGA & Video		Analog VGA & Video	Analog VGA & Video	15 Pin D-sub	15 Pin D-sub
Input Connector	D-Sub 15 Pin, RCA Jack, S-VHS Din Type		D-Sub 15 Pin, RCA Jack, S-VHS Din Type	D-Sub 15 Pin, RCA Jack, S-VHS Din Type		
Scan Frequency	H: 31,5~37,5KHz / V: 60~72Hz		H: 31,5~53 KHz/ V: 56~85 Hz	H: 31,5~53 KHz/ V: 56~85 Hz		
Control	OSD		OSD	OSD	Brightness, Contrast, H/V Position, Color Phase, Clock, Management	Brightness, Contrast, H/V Position, Color Phase, Clock, Management
Power Supply	Universal AC 100~240 V, 50/60Hz			Universal AC 100~240V, 50/60Hz		
Power Management	VESA DPMS Standard		VESA DPMS Standard	VESA DPMS Standard		
Power Supply Cable						
Consumption	16W/ Stand by 2,5W		18W/ Stand by 2,5W	18W/ Stand by 2,5W	30W	30W
Operating Temperature	0°C~40°C		0°C~40°C	0°C~40°C		
Storage Temperature	-20°C~60°C		-20°C~60°C	-20°C~60°C		
Sync Signal	TTL Level +/- Polarity		TTL Level +/- Polarity	TTL Level +/- Polarity	LVDS	LVDS
Scanning	Non-Interlace		Non-Interlace	Non-Interlace		
Dimension (mm)	212,5 x 162,5 x 62,2 212,5 x 162,5 x 65,2	190 x 143 x 34,5	235,6 x 172,6 x 58,0	270,0 x 200,0 x 46,0	283,0 x 184,0 x 27,2	238,1 x 177,4 x 11,0
Net Weight(Kg)	1,5Kg/ 1,8 Kg	0,95Kg	1,6 Kg/ 1,9Kg	2,0 Kg/ 2,3 Kg	3,2Kg	3,2Kg
Color Case						
Safety & EMI	CE		CE	CE		
Vibration	10Hz/ One-way 1m/m		10Hz/ One-way 1m/m	10Hz/ One-way 1m/m		
Pixel (MHz)	31,5 MHz		56,25 MHz	56,25 MHz		
Options	TouchScreen		TouchScreen	TouchScreen	RGB Analog 0,7V Peak to Peak S-Video	RGB Analog 0,7V Peak to Peak S-Video
Ordering Number	DMXX8400/ 8405	DMXX3201	DMXX8410/ 8415	DMXX8420/ 8425	DMXX3210/3211/ 3212	DMXX3213/ 3214/ 3215

LCD-TFT Panel Mount Monitors for Industrial Applications

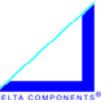
LCD-TFT Module + Inverter + Interfaceboard + Panel Mount Housing



Type	12,1" TFT LCD Einbaumonitor	12,1" LCD-TFT Einbaumonitor, sunlight-readable	15" Metal Frame TFT LCD Einbaumonitor	15" Metal Frame TFT LCD Einbaumonitor	15" LCD-TFT Einbaumonitor	15" LCD-TFT Einbaumonitor, sunlight-readable
Features						
Viewing Area	12,1"	12,1" TFT Active Matrix Panel	15"	15"	15" TFT Activr Matrix Panel	15" TFT Active Matrix Panel
Touch Panel	no/ELO resistive	without TouchScreen with 3 M resistiv with 3 M kapazitiv	no/ELO resistive	no/ELO resistive	without TouchScreen LiYi resistiv with 3 M resistiv with 3 M kapazitiv	without TouchScreen LiYi resistiv with 3 M resistiv with 3 M kapazitiv
Pixel Pitch (mm)	0,297 x 0,297	0,24 x 0,24	0,297 x 0,297	0,297 x 0,297	0,297 x 0,297	0,297 x 0,297
Resolution	1024 x 768 XGA	1024 x 768 XGA	1024 x 768 XGA	1024 x 768 XGA	1024 x 768	1024 x 768
Effective Display Area (mm)	304,1 x 228,1	245,8 x 184,3	304,1 x 228,1	304,1 x 228,1	304,1 x 228,1	304,1 x 228,1
Color	262k	262k	262k	262k	262k	262k
Response Time(tr/tf)	5/11ms	50ms	5/11ms	5/11ms	16ms	16ms
Contrast Ratio	400:1	500:1	400:1	400:1	400:1	400:1
Brightness	500 cd/m ²	1250 cd/m ²	500 cd/m ²	500 cd/m ²	800 cd/m ²	1600cd/m ²
Dimmable	no		no	no		
Viewing Angle	T:40° B:60° L:60° R:60°	H: +70° ~ -70° V: +55° ~ -70°	T:60 B:60 L:70 R:70	T:60 B:60 L:70 R:70	H: +70° ~ -70° V: +50° ~ -70°	H: +70° ~ -70° V: +50° ~ -70°
Backlight	2 CCFL		4 CCFL	4 CCFL		
Lamp Life	50.000 hrs		50.000 hrs	50.000 hrs		
Input Signal	Analog VGA & Video/ No Video	15 Pin D-sub	Analog VGA & Video (Composite Video System PAL/ NTSC/ SECAM)	Analog VGA/CRT, No Video	15 Pin D-sub 24 Pin DVI	15 Pin D-sub 24 Pin DVI
Input Connector	D-Sub 15Pin, BNC Jack, S-VHS Din Type		D-Sub 15Pin, BNC Jack, S-VHS Din Type	D-Sub 15Pin, BNC Jack, S-VHS Din Type		
Scan Frequency	H: 31,5-60 KHz/ V: 56-75 Hz		H: 31,5-60 KHz/ V: 56-75 Hz	H: 31,5-60 KHz/ V: 56-75 Hz		
Control	OSD	Brightness, Contrast, H/V Position, Color Phase, Clock, Management	OSD	OSD	Brightness, Contrast, H/V Position, Color Phase, Clock, Management	Brightness, Contrast, H/V Position, Color Phase, Clock, Management
Power Supply	DC 12V, 20V-36V / 2A		Universal AC 100-240V, 50/60Hz	Universal AC 100-240V, 50/60Hz		
Power Management	VESA DPMS Standard		VESA DPMS Standard	VESA DPMS Standard		
Power Supply Cable						
Consumption	35W / Stand by 2,5W	32W	35W / Stand by 2,5W	35W / Stand by 2,5W	56,5W	56,5W
Operating Temperature	0°C-50°C		0°C ~ 50°C	0°C ~ 50°C		
Storage Temperature	-20°C-60°C		-20°C-60°C	-20°C-60°C		
Sync Signal	TTL Level +/- Polarity	LVDS	TTL Level +/- Polarity	TTL Level +/- Polarity		
Scanning	Non-Interlace		Non-Interlace	Non-Interlace		
Dimension (mm)	354,2 x 266,2 x 49,1 368,0 x 280,0 x 59,4	277,4 x 204,6 x 27,0	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	326,5 x 253,5 x 19,5	326,5 x 253,5 x 19,5
Net Weight(Kg)	2,4 Kg	3,1Kg	3,9 Kg / 5,0 Kg	3,9 Kg / 5,0 Kg	3,9Kg	3,9Kg
Color Case						
Safety & EMI	CE (EMC+LVD) FCC/ ETL		CE (EMC+LVD) FCC/ ETL	CE (EMC+LVD) FCC/ ETL		
Vibration	10Hz/ One-way 1m/m		10Hz/ One-way 1m/m	10Hz/ One-way 1m/m		
Pixel (MHz)	56,25 MHz		78,75 MHz	78,75 MHz		
Options	TouchScreen	RGB Analog 0,7V Peak to Peak S-Video	TouchScreen	TouchScreen	RGB Analog 0,7V Peak to Peak S-Video	RGB Analog 0,7V Peak to Peak S-Video
Ordering Number	DMXX8430/ 8435	DMXX3223/ 3224/ 3225	DMXX8440/ 8446	DMXX8441/ 8447	DMXX3230/ 3231/ 3232/ 3233	DMXX3234/ 3235/ 3236/ 3237

LCD-TFT Panel Mount Monitors for Industrial Applications

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



Type	17" LCD-TFT Einbaumonitor, sunlight-readable	19" LCD-TFT Einbaumonitor	20" LCD-TFT Einbaumonitor, sunlight-readable	21,3" LCD-TFT Einbaumonitor
Features				
Viewing Area	17" TFT Active Matrix Panel	19" TFT Active Matrix Panel	20" TFT Active Matrix Panel	21.3" TFT Active Matrix Panel
Touch Panel	without TouchScreen LiYi resistiv with 3 M resistiv with 3 M kapazitiv	without TouchScreen	without TouchScreen with 3 M resistiv	without TouchScreen LiYi resistiv
Pixel Pitch (mm)	0,264 x 0,264	0,294 x 0,294	0,51 x 0,51	0,27 x 0,27
Resolution	1280 x 1024	1280 x 1024	800 x 600 SVGA	1600 x 1200
Effective Display Area (mm)	337,9 x 270,3	376,3 x 301,1	408,0 x 306,0	432x324mm
Color	262k	16,7 Mio		16.7M colors
Response Time(tr/tf)	16ms	20ms		30ms (Typ.)
Contrast Ratio	500:1	800:1	500:1	550:1
Brightness	1000 cd/m ²	700 cd/m ²	1000 cd/m ²	600 cd/m ²
Dimmable				
Viewing Angle	H: +80° ~ -80° V: +75° ~ -75°	H: +85° ~ -85° V: +85° ~ -80°		H: +85° ~ -85° V: +85° ~ -85°
Backlight				
Lamp Life				
Input Signal	15 Pin D-sub 29 Pin DVI	15 Pin D-sub 29 Pin DVI	15 Pin D-sub 29 Pin DVI / TV-T	15 Pin D-sub, 29 Pin DVI
Input Connector				
Scan Frequency				
Control	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
Power Supply				
Power Management				
Power Supply Cable				
Consumption	65 W	80W		90W (12V/24V)
Operating Temperature				
Storage Temperature				
Sync Signal	LVDS		TTL Positiv or Negativ	LVDS
Scanning				
Dimension (mm)	358,5 x 296,5 x 29,0	404,6 x 330,0 x 23,5		tbd.
Net Weight(Kg)	4,9Kg	7,0Kg		tbd.
Color Case				
Safety & EMI				
Vibration				
Pixel (MHz)				
Options	RGB Analog 0,7V Peak to Peak S-Video	RGB Analog 0,7V Peak to Peak S-Video	RGB Analog 0,7V Peak to Peak S-Video	
Ordering Number	DMXX3240/ 3241/ 3242/ 3243	DMXX3250	DMXX3260/ 3262/ 3261/ 3263	DMXX3270

LCD-TFT Panel Mount Monitors for Wall Matrix Mount



Type	15" Panel Wall Monitor	15" Panel Wall Monitor	15" Panel Wall Monitor	17" Panel Wall Monitor	17" Panel Wall Monitor
Features					
Viewing Area	15"	15"	15"	17"	17"
Touch Panel	without TouchScreen	without TouchScreen	without TouchScreen	without TouchScreen	without TouchScreen
Pixel Pitch (mm)	0,297 x 0,297	0,297 x 0,297	0,297 x 0,297	0,264 x 0,264	0,264 x 0,264
Resolution	1024 x 768 XGA	1024 x 768 XGA	1024 x 768 XGA	1280 x 1024 SXGA	1280 x 1024 SXGA
Effective Display Area (mm)	304,1 x 228,1	304,1 x 228,1	304,1 x 228,1		
Color	262k	262k	262k	262k	262k
Response Time(tr/tf)	16 ms (Typ.)	16 ms (Typ.)	16 ms (Typ.)	16 ms (Typ.)	16 ms (Typ.)
Contrast Ratio	400:1	400:1	400:1	500:1	450:1
Brightness	250 cd/m ²	800 cd/m ²	1600 cd/m ²	1000 cd/m ²	260 cd/m ²
Dimmable					
Viewing Angle	H: +70° ~ -70° V: +50° ~ -70°	H: +70° ~ -70° V: +50° ~ -70°	H: +70° ~ -70° V: +50° ~ -70°	H: +80° ~ -80° V: +75° ~ -75°	H: +80° ~ -80° V: +75° ~ -75°
Backlight					
Lamp Life					
Input Signal					
Input Connector	15 Pin D-sub, 24 Pin DVI-D	15 Pin D-sub, 24 Pin DVI-D	15 Pin D-sub, 24 Pin DVI-D	15 Pin D-sub, 29 Pin DVI-D	15 Pin D-sub, 29 Pin DVI-D
Scan Frequency					
Control	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
Power Supply					
Power Management					
Power Supply Cable					
Consumption	30W	56,5W	56,5W	50W	65W
Operating Temperature					
Storage Temperature					
Sync Signal	LVDS	LVDS	LVDS	LVDS	LVDS
Scanning					
Dimension (mm)	332,2 x 258,7 x 48,0	332,2 x 258,7 x 48,0	332,2 x 258,7 x 48,0	363,2 x 301,2 x 52,0	363,2 x 301,2 x 52,0
Net Weight(Kg)	2,6Kg	2,6Kg	2,6Kg	3,7Kg	3,8Kg
Color Case					
Safety & EMI					
Vibration					
Pixel (MHz)					
Options	Anti- glare Glass RGB Analog 0,7V Peak to Peak	Anti- glare Glass RGB Analog 0,7V Peak to Peak	Anti- glare Glass RGB Analog 0,7V Peak to Peak	Anti- glare Glass RGB Analog 0,7V Peak to Peak	Anti- glare Glass RGB Analog 0,7V Peak to Peak
Ordering Number	DMXX3401	DMXX3402	DMXX3403	DMXX3404	DMXX3405

LCD-TFT Monitors with IP65 Front for Industrial Applications

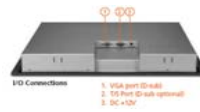
LCD-TFT Module + Inverter + Interfaceboard + Panel Mount Housing and IP65 Front



Type	12" LCD-TFT Open Frame Flat Panel Monitor Front IP65	12" LCD-TFT Panel Mount Flat Panel Monitor Front IP65	15,1" LCD-TFT Open Frame Flat Panel Monitor Front IP65	15,1" LCD-TFT Panel Mount Flat Panel Monitor Front IP65
Viewing Area	12,1" TFT	12,1" TFT	15,1" TFT	15,1" TFT
Touch Panel	resistive / no	resistive / no	resistive / capacitive / no	resistive / capacitive / no
Pixel Pitch (mm)	0,1025 x 0,3075	0,1025 x 0,3075	0,297 x 0,297	0,297 x 0,297
Resolution	800 x 600	800 x 600	1024 x 768	1024 x 768
Effective Display Area (mm)	246,0 x 184,5	246,0 x 184,5	304,1 x 228,1	304,1 x 228,1
Color	262k	262k	262.144	262.144
Response Time(tr/ff)	30ms/ 20ms	30ms/ 20ms	35ms	35ms
Contrast Ratio	150 (Min.)	150 (Min.)	350 (Typ.)	350 (Typ.)
Brightness	300 cd/m ² (Typ.)	300 cd/m ² (Typ.)	250 cd/m ² (Typ.)	250 cd/m ² (Typ.)
Dimmable				
Viewing Angle	H: 90° / V: 40°	H: 90° / V: 40°	H: 130° / V: 100°	H: 130° / V: 100°
Backlight	2 CCFL	2 CCFL	2 CCFL	2 CCFL
Lamp Life	50000 hrs	50000 hrs	30000 hrs	30000 hrs
Input Signal	VGA, Video 1, S-Video DC Power Input RS-232	VGA, Video 1, S-Video DC Power Input RS-232	PC-VGA DC Power Input RS-232	PC-VGA DC Power Input RS-232
Input Connector				
Scan Frequency				
Control	OSD	OSD	OSD	OSD
Power Supply	External AC/DC Power Adapter	External AC/DC Power Adapter	External AC/DC Power Adapter	External AC/DC Power Adapter
Power Management				
Power Supply Cable				
Consumption				
Operating Temperature	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 40°C
Storage Temperature	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C
Sync Signal				
Scanning				
Dimension (mm)	388,5 x 66,6 x 300,5 370,0 x 61,1 x 275,0	388,5 x 66,6 x 300,5 370,0 x 61,1 x 275,0	418,0 x 47,0 x 310,0 482,6 x 47,0 x 310,0 385,4 x 41,6 x 293,4	418,0 x 47,0 x 310,0 482,6 x 47,0 x 310,0 385,4 x 41,6 x 293,4
Net Weight(Kg)	3,0 Kg	3,5 Kg		
Color Case				
Safety & EMI				
Vibration				
Pixel (MHz)				
Options				
Ordering Number	DMXX 5242/ 5243	DMXX 5240/ 5203	DMXX 5234/ 5233/ 5235	DMXX 5230/ 5231/ 5232

LCD-TFT Monitors with IP65 Front for Industrial Applications

LCD-TFT Module + Inverter + Interfaceboard + Panel Mount Housing and IP65 Front



Type	17" LCD-TFT Open Frame Flat Panel Monitor Front IP65	17" LCD-TFT Panel Mount Flat Panel Monitor Front IP65	19" LCD-TFT Open Frame Flat Panel Monitor Front IP65	19" LCD-TFT Panel Mount Flat Panel Monitor Front IP65
Features				
Viewing Area	17" TFT	17" TFT	19" TFT	19" TFT
Touch Panel	resistive / capacitive / no	resistive / capacitive / no	resistive / capacitive / no	resistive / capacitive / no
Pixel Pitch (mm)	0,264 x 0,264	0,264 x 0,264	0,294 x 0,294	0,294 x 0,294
Resolution	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024
Effective Display Area (mm)	337,9 x 270,3	337,9 x 270,3	376,3 x 301,1	376,3 x 301,1
Color	262k	262k	262k	262k
Response Time(tr/TF)	12ms/ 4ms	12ms/ 4ms	3,6ms/ 8,4ms	3,6ms/ 8,4ms
Contrast Ratio	400 (Typ.)	400 (Typ.)	450 (Typ.)	450 (Typ.)
Brightness	260 cd/m ² (Typ.)	260 cd/m ² (Typ.)	350 cd/m ² (Typ.)	350 cd/m ² (Typ.)
Dimmable				
Viewing Angle	H: 140° / V: 140°	H: 140° / V: 140°	H: 130° / V: 130°	H: 130° / V: 130°
Backlight	2 CCFL	2 CCFL	2 CCFL	2 CCFL
Lamp Life	50000 hrs	50000 hrs	K/A	K/A
Input Signal	PC-VGA DC Power Input RS-232	PC-VGA DC Power Input RS-232	VGA, Video, S-Video, DVI DC Power Input RS-232	VGA, Video, S-Video, DVI DC Power Input RS-232
Input Connector				
Scan Frequency				
Control	OSD	OSD	OSD	OSD
Power Supply	External AC/DC Power Adapter	External AC/DC Power Adapter	External AC/DC Power Adapter	External AC/DC Power Adapter
Power Management				
Power Supply Cable				
Consumption				
Operating Temperature	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 50°C	0°C ~ 50°C
Storage Temperature	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C
Sync Signal				
Scanning				
Dimension (mm)	482,8 x 58,3 x 14,0 429,2 x 52,9 x 338,0	482,8 x 58,3 x 14,0 429,2 x 52,9 x 338,0	482,0 x 399,0 x 60,0	482,0 x 399,0 x 60,0
Net Weight(Kg)	5,5 Kg	7,0 Kg	10,0 Kg	10,0 Kg
Color Case				
Safety & EMI				
Vibration				
Pixel (MHz)				
Options				
Ordering Number	DMXX5220/ 5219/ 5221	DMXX 5217/ 5216/ 5218	DMXX5249/ 5248/ 5250	DMXX 5246/ 5245/ 5247

LCD-TFT Monitors IP68 for Industrial Applications

LCD-TFT Module + Inverter + Interfaceboard + Housing IP68 nitrogen filled



Type	15" LCD-TFT High Bright Monitor IP68 nitrogen filled	15" LCD-TFT High Bright Monitor IP68 nitrogen filled
Features		
Viewing Area	15"	15,1"
Touch Panel	no/ capacitive	no/ capacitive
Pixel Pitch (mm)		
Resolution	1024 x 768 XGA	1024 x 768 XGA
Effective Display Area (mm)		
Color	262k	262k
Response Time(tr/ta)	50ms/ 20ms	50ms/ 20ms
Contrast Ratio	400:1	400:1
Brightness	1000 cd/ m ²	500 cd/m ²
Dimmable	automatic	automatic
Viewing Angle	H: 140° / V: 120°	H: 140° / V: 120°
Backlight	Planon	Planon
Lamp Life	100.000hrs	100.000hrs
Input Signal	VGA optional: DVI/AV	VGA optional: DVI/AV
Input Connector		
Scan Frequency		
Control		
Power Supply	24VDC	12VDC
Power Management		
Power Supply Cable		
Consumption	43W (typ.)	19W (typ.)
Operating Temperature	-20°C ~ 60°C	-20°C ~ 60°C
Storage Temperature		
Sync Signal		
Scanning		
Dimension (mm)	380 x 320 x 65	380 x 320 x 65
Net Weight(Kg)		
Color Case	alu silver	alu silver
Safety & EMI		
Vibration	1.5 / 10-200 G/Hz	1.5 / 10-200 G/Hz
Pixel (MHz)		
Options	protected cap. TouchScreen active power management heating	protected cap. TouchScreen active power management heating
Ordering Number	tbd.	tbd.

LCD-TFT Monitors for Low-Cost Car Applications



Type	7" Car Display	7" Car Display	8,4" Car Display
Features			
Viewing Area	7" (16:9)	7" (16:9)	8,4" (4:3)
Touch Panel	5-wire resistive (USB) / no	5-wire resistive (USB)	5-wire resistive
Pixel Pitch (mm)			
Resolution	800x480	800x480	800x600
Effective Display Area (mm)	155 x 98	155 x 98	172 x 129
Color			RGB stripe
Response Time(tr/TF)			
Contrast Ratio			
Brightness	330 cd/m ² / 400 cd/m ²	330 cd/m ² / 400 cd/m ²	400 cd/m ²
Dimmable	yes	yes	no
Viewing Angle			
Backlight	CCFL	CCFL	CCFL
Lamp Life			
Input Signal	1x VGA, 2 Video Composite, 1xAudio	1x VGA, 2 Video Composite, 1xAudio	Video input signal: 1.0Vp-p, composite video
Input Connector	1x 15 Pin D-Sub 2x Video, 1x RCA	1x 15 Pin D-Sub 2x Video, 1x RCA	2x Video inputs (PAL/NTSC) 1x VGA input (15Pin D-Sub)
Scan Frequency			
Control	OSD	OSD	OSD
Power Supply	12 VDC automotive	12 VDC automotive	12VDC automotive
Power Management			
Power Supply Cable			
Consumption	max. 8W	max. 8W	max. 10W
Operating Temperature	-5°C - +70°C	-5°C - +70°C	
Storage Temperature			
Sync Signal			
Scanning			
Dimension (mm, BxHxT)	195x 121 x 35	195x 121 x 35	221 x 161 x 37
Net Weight(Kg)	0,58	0,58	
Color Case	silver	black	black
Safety & EMI	FCC, CE, E13	FCC, CE, E13	CE
Vibration			
Pixel (MHz)			
Option	Standfuss		
Ordering Number	DMXX1020 / DMXX1021	DMXX1025	DMXX1024

DeltaVarioMon - LCD-TFT Monitors

for Professional Automotive-, Mobile-, Industrial Applications



Type	DeltaVarioMon 6,3" transmissiv	DeltaVarioMon 6,5" transmissiv	DeltaVarioMon 6,5" transflectiv	DeltaVarioMon 8,4" transmissiv	DeltaVarioMon 10,4" transmissiv
Features					
Viewing Area	6,3" / 161mm	6,5" / 166mm	6,5" / 166mm	8,4" / 213,3mm	10,4" / 260mm
Touch Panel	with/ without TouchScreen analog resistiv	with/ without TouchScreen analog resistiv	with/ without TouchScreen analog resistiv	with/ without TouchScreen analog resistiv	with/ without TouchScreen analog resistiv
Pixel Pitch (mm)	0,126 x 0,126				0,2055 x 0,2055
Resolution	1,024 x 768 XGA	640 x 480 VGA	640 x 480 VGA	800 x 600 SVGA	1.024 x 768
Effective Display Area (mm)	129,0 x 96,8	132,5 x 99,4	132,5 x 99,4	170,4 x 127,8	210,4 x 157,8
Color	16 Mio.	262k	262k	262k	262k
Response Time(tr/ta)	21ms		16ms		15ms
Contrast Ratio	500:1	250:1	400:1	250:1	300:1
Brightness	250 cd/m ²	300 cd/m ²	500 cd/m ²	350 cd/m ²	300 cd/m ²
Dimmable	yes	yes	yes	yes	yes
Viewing Angle	up 45° down 60° right 60° left 60° (typ.)	up 35° down 45° right 50° left 50° (typ.)	up 35° down 45° right 50° left 50° (typ.)	up 90° down 45° right 100° left 100° (typ.)	up 34° down 60° right 60° left 60° (typ.)
Backlight	2x CCFL	2x CCFL	2x CCFL		2x CCFL
Lamp Life					
Input Signal	VGA/CRT	VGA/CRT	VGA/CRT	VGA/CRT	VGA/CRT
Input Connector (Supply/ Signal / Touch)	LEMO / 15Pin HD-Sub / PS/2	LEMO / 15Pin HD-Sub / PS/2	LEMO / 15Pin HD-Sub / PS/2	LEMO / 15Pin HD-Sub / PS/2	LEMO / 15Pin HD-Sub / PS/2
Scan Frequency					
Control					
Power Supply	8 - 28VDC	8 - 28VDC	8 - 28VDC	8 - 28VDC	8 - 28VDC
Power Management					
Power Supply Cable	Length ca. 1,5m with open ends	Length ca. 1,5m with open ends		Length ca. 1,5m with open ends	
Consumption	5,4W	5,5W	5,5W		
Operating Temperature	0°C ~ +60°C	0°C ~ +60°C	0°C ~ +60°C	0°C ~ +60°C	0°C ~ +60°C
Storage Temperature	-20°C ~ +70°C	-20°C ~ +70°C	-20°C ~ +70°C	-20°C ~ +70°C	-20°C ~ +70°C
Sync Signal					
Scanning					
Dimension (mm)	191,0 x 153,0 x 38,9	206,4 x 150,2 x 35,0	206,4 x 150,2 x 35,0	220,0 x 180,0 x 35,0	255,0 x 215,0 x 22,0/ 44,0
Net Weight(Kg)				1,0 Kg	1,3 Kg
Color Case	black, power coating	black, power coating	black	black, power coating	black, power coating
Safety & EMI					
Vibration					
Pixel (MHz)		25.175 MHz	25.175 MHz		
Options					
Ordering Number	DMXX1040 / 1041	DMXX1050 / 1051	DMXX1048 / 1049	DMXX1055 / 1056	DMXX1059 / 1060

DeltaVarioMon - LCD-TFT Monitors

for Professional Automotive-, Mobile-, Industrial Applications



under
development



under
development

under
development

under
development

Type	DeltaVarioMon 10,4" High Brightness	DeltaVarioMon 12,1" transmissiv	DeltaVarioMon 12,1" High Brightness	DeltaVarioMon 12,1" mit USB Interface	DeltaVarioMon 10,4" Waterproof IP68
Features					
Viewing Area	10,4"/260mm	12,1"/ 310mm	12,1"/ 310mm	12,1"/ 310mm	10,4"/260mm
Touch Panel	with/ without TouchScreen analog resistiv	with/ without TouchScreen analog resistiv	with/ without TouchScreen analog resistiv	with/ without TouchScreen analog resistiv	with/ without TouchScreen analog resistiv
Pixel Pitch (mm)	0.2055 x 0.2055		0.240 x 0.240	0,3075 x 0,3075	0.2055 x 0.2055
Resolution	1.024 x 768	1.024 x 768	1.024 x 768	800 x 600	1.024 x 768
Effective Display Area (mm)	210,4 x 157,8	245,8 x 184,3	245,76 x 184,32	246 x 184,5	210,4 x 157,8
Color	6-bit, 262.144	262k	6-bit, 262.144 colors	260k	6-bit, 262.144
Response Time(tr/ta)	34ms		40ms	40ms	34ms
Contrast Ratio	450:1	600:1	400:1	500:1	450:1
Brightness	1.200 cd/m ²	400 cd/m ²	1.000 cd/m ²	400 cd/m ²	1.200 cd/m ²
Dimmable		yes			
Viewing Angle	up 80° down 80° right 80° left 80° (typ.)	up 45° down 55° right 70° left 70° (typ.)	up 80° down 80° right 80° left 80° (typ.)	up 75° down 45° right 65° left 65° (typ.)	up 80° down 80° right 80° left 80° (typ.)
Backlight	4x CCFL	1x CCFL	4x CCFL	2x CCFL	4x CCFL
Lamp Life	40.000		40.000	50.000	40.000
Input Signal	VGA/CRT, DVI, Video-Composite, S-Video	VGA/CRT	VGA/CRT, DVI, Video-Composite, S-Video		VGA/CRT, DVI, Video-Composite, S-Video
Input Connector (Supply/ Signal / Touch)	LEMO/ 15Pin HD-Sub, DVI, Chinch, Mini DIN / PS/2	LEMO / 15 Pin HD-Sub / PS/2	LEMO / 15 Pin HD-Sub / DVI	LEMO / 15 Pin HD-Sub / USB	tbd.
Scan Frequency					
Control					
Power Supply	tbd.	8 - 28VDC	tbd.	tbd.	tbd.
Power Management					
Power Supply Cable					
Consumption		3,9W			
Operating Temperature		0°C ~ +60°C			
Storage Temperature		-20°C ~ +70°C			
Sync Signal					
Scanning					
Dimension (mm)		300,0 x 235,0 x 22,0/ 44,0			
Net Weight(Kg)		1,3 Kg			
Color Case		black, power coating			
Safety & EMI					
Vibration					
Pixel (MHz)					
Options					
Ordering Number		DMXX1061 / 1062			

LCD-TFT Monitors for Desktop & Point of Sales (POS) Applications



Type	10,4" P.O.S. TFT-LCD Monitor	12,1" P.O.S. TFT-LCD Monitor	15" P.O.S. TFT-LCD Monitor	15" UB LCD Monitor	15" UB LCD Monitor
Features					
Viewing Area	10,4"	12,1"	15"	15" TFT Active Matrix LCD	15" TFT Active Matrix Panel
Touch Panel	no/ no/ 4-wire res.	no/ no/ 8-wire res.	3M resistive (8 wires) or ELO resistive (5 wires)	without TouchScreen with LiYi resistiv	without TouchScreen with LiYi resistiv
Pixel Pitch (mm)				0,297 x 0,297	0,264 x 0,264
Resolution	500 x 600 SVGA	800 x 600 SVGA	1024 x 768 XGA	1024 x 768 XGA	1024 x 768
Effective Display Area (mm)					304,0 x 228,0
Color	262k	262k	16,7 Mio.	16,7Mio	16,7Mio
Response Time(tr/tf)				16ms	16ms
Contrast Ratio	180:1	300:1	350:1	400:1	400:1
Brightness	160 cd/m ²	160 cd/m ²	350 cd/m ²	800 cd/m ²	250 cd/m ²
Dimmable	no	no	no	100:1 (100 Steps)	
Viewing Angle	H: 90° V: 55°	H: 90° V: 40°	H: 120° V: 100°	H +70° ~ -70° V: +50° ~ -70°	H: +60° ~ -60° V: +60° ~ -40°
Backlight					
Lamp Life					
Input Signal	VGA R/G/B Analog	VGA R/G/B Analog	VGA R/G/B Analog		
Input Connector					
Scan Frequency	H: 31K~48KHz	H: 31K~48KHz	H: 30K ~60KHz	30 -61 KHz / 50-75 Hz	31 ~ 60KHz/ 56 ~ 75Hz
Control	OSD	OSD Control with "i-touch" auto scaling	OSD Control with "i-touch" auto scaling	Menu, Adjust, Power, Adjust+, Selct.	Menu, Adjust, Power, Adjust+, Selct.
Power Supply	AC 100~240V, 50/60Hz	Universal 100~240 V, 50/60 Hz	AC 100~240V, 50/60Hz	AC 100 ~ 240 V, 50~60 Hz	AC 100 ~ 240 V, 50~60 Hz
Power Management	VESA DPMS Standard	VESA DPMS Standard	VESA DPMS Standard		
Power Supply Cable				AC/DC Adapter, Power Cord	AC/DC Adapter, Power Cord
Consumption	18W/ Stand by 2,5W	15W/ Stand by 3W	35W/ Stand by 2,5W	56,5W (max.)	30 W (max.)
Operating Temperature	0°C~40°C	0°C ~ 50°C	0°C ~ 40°C	0°C ~ 50°C	0°C ~ 40°C
Storage Temperature	-20°C-60°C	-20°C-60°C	-20°C-60°C	-20°C ~ 60°C	
Sync Signal					LVDS
Scanning					
Dimension (mm)				399,0 x 418,0 x 201,0	360,0 x 341,0 x 185,0
Net Weight(Kg)				9,5 lbs. (4,3 Kg)	2,6Kg / 3,8Kg
Color Case	black or white	black or white	black or white	silver and beige	
Safety & EMI	FCC, UL, CE, TÜV/ GS, CCC	FCCB, ETL, ETL, CE, TÜV/GS, CCC	FCCB, ETL, ETL, CE, TÜV/GS, CCC	FCC, CE-B	FCC, CE-B
Vibration					
Pixel (MHz)					
Options	Strengthen Glass TouchScreen	Strengthen Glass TouchScreen Card Reader	TouchScreen Card Reader	2 W x 2 Wall Mount kit 75mm VESA Mechanical Arm extension	
Ordering Number	DMXX2035/ 2036/ 2037	DMXX2040/ 2041/ 2042/ 2043	DMXX2007/ 2008	DMXX3510/ 3511	DMXX3512/ 3513

LCD-TFT Monitors for Desktop & Point of Sales (POS) Applications



Type	17" Professional CCTV LCD Display	17" UB LCD Monitor	17" UB LCD Monitor Active Matrix	17" UB LCD Monitor	17" UB LCD Monitor Color Active	19" UB LCD Monitor
Features						
Viewing Area	17"	17" a-Si TFT Active Matrix LCD	17" TFT Active Matrix Panel	17"	17"	19"
Touch Panel	no	without TouchScreen	without TouchScreen with LiYi resistiv with 3M resistiv	without TouchScreen with LiYi resistiv	without TouchScreen with LiYi resistiv with 3M resistiv with 3M kapazitiv	without TouchScreen with LiYi resistiv with 3M resistiv with 3M kapazitiv
Pixel Pitch (mm)		0,264 x 0,264	0,264 x 0,264	0,264 x 0,264	0,264 x 0,264	0,264 x 0,264
Resolution	1280 x 1024 SXGA	1280 x 1024 SXGA	1280 x 1024	1280 x 1024		1280 x 1024
Effective Display Area (mm)			337,0 x 270,0		338,0 x 270,0	376,3 x 301,1
Color	16,7 Mio.	16,7 Mio	16,7 Mio.		16,7 Mio.	16,7 Mio
Response Time(tr/tf)		16ms	16ms	16ms	16ms (Typ.)	25ms
Contrast Ratio	500:1	400:1	450:1	450:1	500:1	700:1
Brightness	250 cd/m ²	700 cd/m ²	260 cd/m ²	260 cd/m ²	800 cd/m ²	250 cd/m ²
Dimmable	no	200:1				
Viewing Angle	H:170° V: 170°	H: 170° V: 170°	H: +80° ~ -80° V: +80° ~ -80°	H: +80° ~ -80° V: +80° ~ -80°	H: +80° ~ -80° V: +75° ~ -75°	H: +85° ~ -85° V: +85° ~ -85°
Backlight						
Lamp Life						
Input Signal	Analog VGA & Video (NTSC, PAL)	D-sub 15 Pin	D-sub 15 Pin		D- sub 15 (VGA), DVI-D	Analog RGB 155-pin D-sub
Input Connector						
Scan Frequency	H: 30 K ~ 80 KHz V: 50 ~ 75 KHz	64 KHz/ 60Hz	31~80KHz / 56~75Hz			
Control		OSD			OSD	
Power Supply	Universal 100~240 V, 50/60 Hz	AC 100 ~ 240 V, 50~60 Hz	AC 100 ~ 240 V, 50~60 Hz		AC 100 ~ 240 V 50 ~ 60 Hz	AC 100-240V/50 60Hz, DC 12V
Power Management	VESA DPMS Standard					
Power Supply Cable		AC/DC Adapter, Power Cord	AC/DC Adapter, Power Cord		AC/DC Adapter, Power Cord	
Consumption	35 W	< 63W	36W (Max.)	36W	60W	40 W
Operating Temperature	0°C~40°C	0°C ~ 50° C	0°C ~ 40°C			
Storage Temperature	-20°C-60°C	-20°C ~ 80°C				
Sync Signal			LVDS			
Scanning						
Dimension (mm)	400,0 x 400,0 x 181,0	450,0 x 430,0 x 200,0	440,0 x 385,0 x 230,0		414,0 x 346,0 x 58,0	485 x 435 x 173
Net Weight(Kg)	6,0Kg/ 7,5Kg	8,3 Kg	4,3Kg/ 5,9Kg		7,0Kg	4,9Kg
Color Case		silver / black/ beige				
Safety & EMI	FCC, CE, UL	FCC, CE-B, VCC-I, UL, TUV/GS	FCC, CE-B		FCC, CE-B, VCC-I, UL, TUV/GS	CE
Vibration						
Pixel (MHz)						
Options	Audio:Speaker x 2/ RCA Jack					
Ordering Number	DMXX5131	2W x 2 DMXX3520	DMXX3521/ 3522/ 3523	DMXX 3525/ 3526	2W x 2 DMXX3529	VGA input DMXX3540/ 3541