

HA-121

12.1" High brightness open frame LCD monitor with auto-dimming



Features

- High brightness with auto-dimming control (energy saving)
- For kiosk, outdoor, semi-outdoor, digital signage application
- 12.1" XGA TFT LCD with LED backlight
- Removable environment light sensor
- VESA mount (75x75mm)
- RS232 for remote control



Specifications

LCD panel	Size	12.1" (4:3)
	Backlight	LED
	Panel type	TN
	Pixel pitch	0.3075x0.3075 mm
	Active area	245.76x184.32 mm
	Brightness	1000 cd/m2 *
	Contrast	700 : 1
	Viewing angle	160 / 160 degree
	Resolution	1024 x 768
	Display color	16.2M/262K (8/6 bit)
Video	Response time	Tr/Tf=10/25 mS
	Hor. frequency	30 ~ 57 KHz
	Ver. frequency	60/70 Hz
	Pixel rate	75 MHz

Signal input	VGA, DVI-I	
OSD adjustment	Power, Enter, Left, Right, Auto	
Power	DC connector	2.5mm diameter
	DC input	12 Vdc / 1A
	Consumption	12W
	Management	VESA DPMS
Mounting	75x75mm VESA mount	
Dimension	285 (W) x 223 (H) x 41 (D) mm	
Net weight	1.8 kg	
Package	Packing	5 pcs / carton
	20' container	410x368x435mm
	40' container	
Temperature	Operation	-30 ~ 80 degree C
	Storage	-30 ~ 80 degree C

* Higher brightness is on demand.

Ordering information

Model selection

HA-121-XYZ	X: Panel selection	Y: Input selection	Z: Touch selection
	0: Standard, chosen	0: Standard, VGA/DVI	0: Standard, none
	A: Specified LCD	V: VGA only	G: Glass
	B: Specified LCD	H: VGA/DVI/HDMI	R: Resistive
	...etc. Specified LCD	P: DVI/HDMI/DP	C: Surface capacitive
		S: VGA/DVI/S-video	P: Projective capacitive
			I: IR
			S: SAW

Optional accessories

- * Power adapter 100 ~ 240 Vac adapter with 12Vdc / 3A o/p
- * Power cord 1.8M power cord, US / EU
- * Signal cable 1.8M VGA cable, 1.8M DVI cable, 1.8M RS232 cable

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HA-101

10.1" High brightness open frame LCD monitor with auto-dimming



Features

- High brightness with auto-dimming control (energy saving)
- For kiosk, outdoor, semi-outdoor, digital signage application
- 10.1" WXGA TFT LCD with LED backlight
- Removable environment light sensor
- VESA mount (75x75mm)
- RS232 for remote control



Specifications

LCD panel	Size	10.1" (16:9.4)
	Backlight	LED
	Panel type	TN
	Pixel pitch	0.2175x0.2088 mm
	Active area	222.72x125.28 mm
	Brightness	1000 nits (max.) *
	Contrast	500 : 1
	Viewing angle	80/80/80/80 degree
	Resolution	1024 x 600
	Display color	262K/16.7M (6/8 bit)
Video	Response time	Tr/Tf=11/5 mS
	Hor. frequency	30 ~ 63 KHz
	Ver. frequency	60/70 Hz
	Pixel rate	75 MHz

Signal input	VGA, DVI-I	
OSD adjustment	Power, Enter, Left, Right, Auto	
Power	DC connector	2.5mm diameter
	DC input	12 Vdc / 1A
	Consumption	12W
	Management	VESA DPMS
Mounting	75x75mm VESA mount	
Dimension	265 (W) x 145 (H) x 39 (D) mm	
Net weight		
Package	Packing	
	Carton size	
	Container loading	
Temperature	Operation	-30 ~ 80 degree C
	Storage	-30 ~ 80 degree C

* Higher brightness is on demandt.

Ordering information

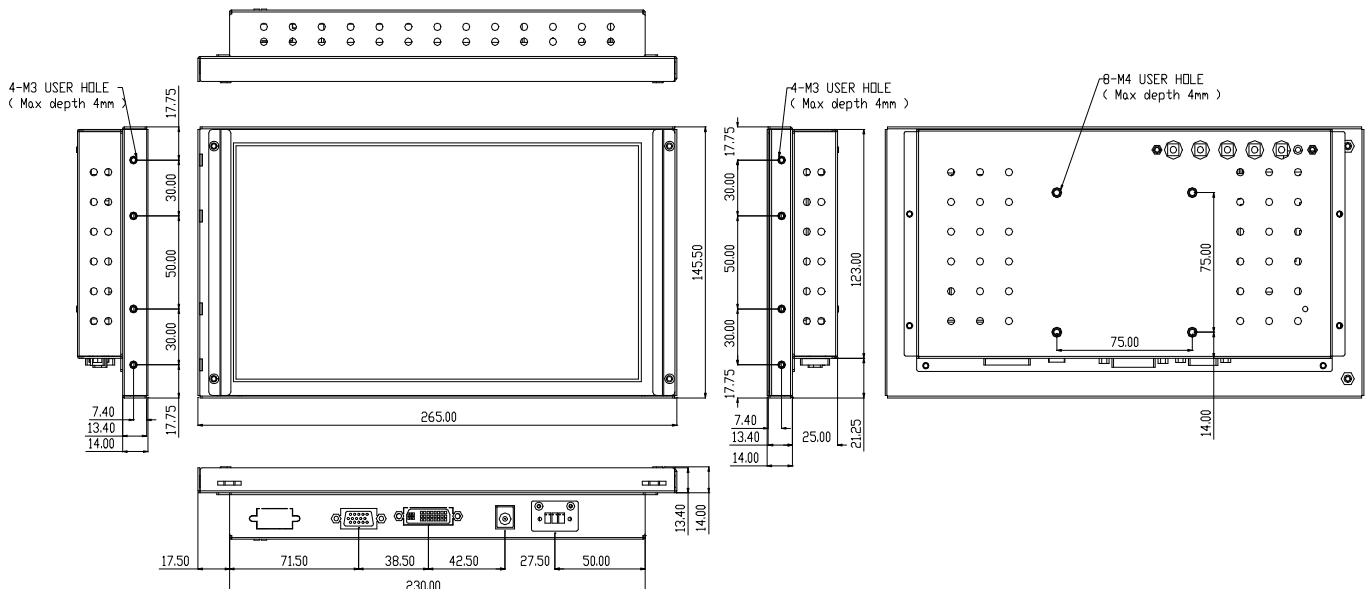
Model selection

HA-101-XYZ	X: Panel selection	Y: Input selection	Z: Touch selection
	0: Standard, chosen	0: Standard, VGA/DVI	0: Standard, none
	A: Specified LCD	V: VGA only	G: Glass
	B: Specified LCD	H: VGA/DVI/HDMI	R: Resistive
	...etc. Specified LCD	P: DVI/HDMI/DP	C: Surface capacitive
		S: VGA/DVI/S-video	P: Projective capacitive
			I: IR
			S: SAW

Optional accessories

- * Power adapter 100 ~ 240 Vac adapter with 12Vdc / 3A o/p
- * Power cord 1.8M power cord, US / EU
- * Signal cable 1.8M VGA cable, 1.8M DVI cable, 1.8M RS232 cable

Product drawing



* All specification and photos are subject to change without notice.

HA-104

10.4" High brightness open frame LCD monitor with auto-dimming

Features

- High brightness with auto-dimming control (energy saving)
- For kiosk, outdoor, semi-outdoor, digital signage application
- 10.4" SVGA TFT LCD with LED backlight
- Removable environment light sensor
- VESA mount (75x75mm)
- RS232 for remote control



Specifications

LCD panel	Size	10.4" (4:3)
	Backlight	LED
	Panel type	TN
	Pixel pitch	0.264x0.264 mm
	Active area	211.2x158.4 mm
	Brightness	1000 nits (max.) *
	Contrast	400 : 1
	Viewing angle	65/65/45/65 degree
	Resolution	800 x 600
	Display color	256K (6 bit)
	Response time	Tr/Tf=10/15 mS
Video	Hor. frequency	30 ~ 57 KHz
	Ver. frequency	60/70 Hz
	Pixel rate	75 MHz

Signal input	VGA, DVI-I	
OSD adjustment	Power, Enter, Left, Right, Auto	
Power	DC connector	2.5mm diameter
	DC input	12 Vdc / 0.75A
	Consumption	9W
	Management	VESA DPMS
Mounting	75x75mm VESA mount	
Dimension	248 (W) x 182.5 (H) x 38.3 (D) mm	
Net weight	1.2 kg	
Package	Packing	5 pcs / carton
	Carton size	410x368x435mm
	Container loading	
Temperature	Operation	-20 ~ 70 degree C
	Storage	-30 ~ 80 degree C

* Higher brightness is on demand.

Ordering information

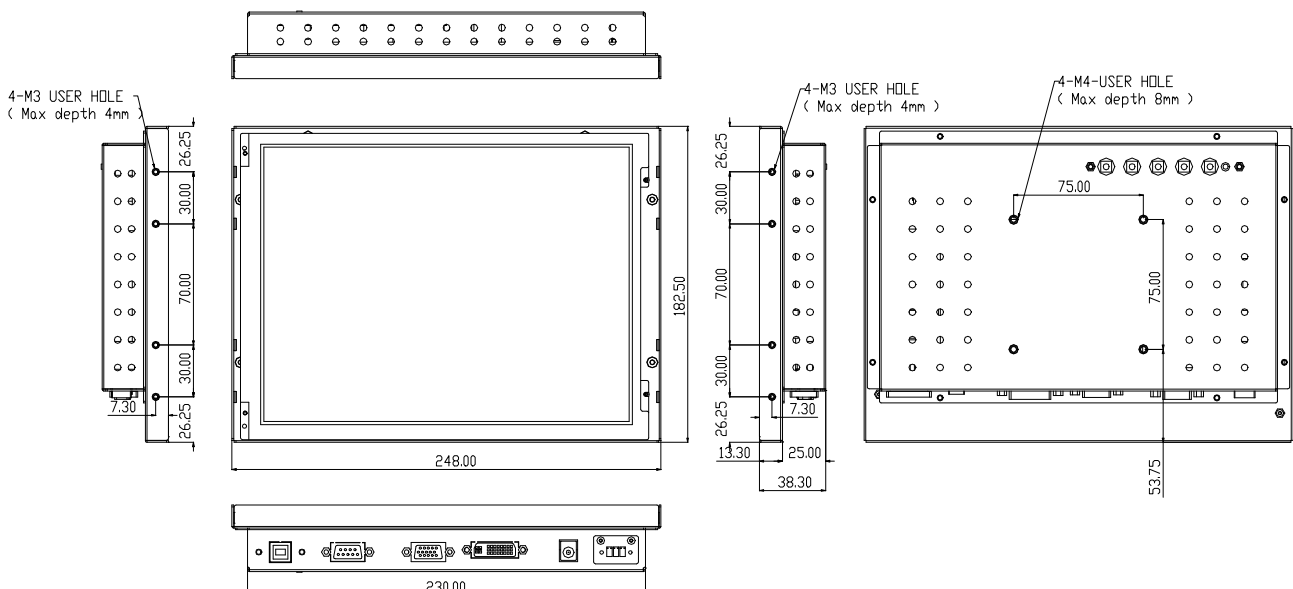
Model selection

HA-104-XYZ	X: Panel selection	Y: Input selection	Z: Touch selection
	0: Standard, chosen	0: Standard, VGA/DVI	0: Standard, none
	A: Specified LCD	V: VGA only	G: Glass
	B: Specified LCD	H: VGA/DVI/HDMI	R: Resistive
	...etc. Specified LCD	P: DVI/HDMI/DP	C: Surface capacitive
		S: VGA/DVI/S-video	P: Projective capacitive
			I: IR
			S: SAW

Optional accessories

- * Power adapter 100 ~ 240 Vac adapter with 12Vdc / 3A o/p
- * Power cord 1.8M power cord, US / EU
- * Signal cable 1.8M VGA cable, 1.8M DVI cable, 1.8M RS232 cable

Product drawing



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HA-150

15" High brightness open frame LCD monitor with auto-dimming

Features

- High brightness with auto-dimming control (energy saving)
- For kiosk, outdoor, semi-outdoor, digital signage application
- 15" XGA TFT LCD with LED backlight
- Removable environment light sensor
- VESA mount (75x75, 100x100mm)
- RS232 for remote control



Specifications

LCD panel	Size	15" (4:3)
	Backlight	LED
	Panel type	TN
	Pixel pitch	0.297x0.297 mm
	Active area	304.13x228.1 mm
	Brightness	1000 nits (max.) *
	Contrast	700 : 1
	Viewing angle	80/80/75/55 degree
	Resolution	1024 x 768
	Display color	16.2M (8 bit)
	Response time	Tr/Tf=5.7/2.3 mS
Video	Hor. frequency	30 ~ 57 KHz
	Ver. frequency	60/70 Hz
	Pixel rate	75 MHz

Signal input	VGA, DVI-I	
OSD adjustment	Power, Enter, Left, Right, Auto	
Power	DC connector	2.5mm diameter
	DC input	12 Vdc / 1.6A
	Consumption	19W
	Management	VESA DPMS
Mounting	75x75, 100x100mm VESA mount	
Dimension	335 (W) x 256.5 (H) x 45 (D) mm	
Net weight	3.0 kg	
Package	Packing	3 pcs / carton
	Carton size	420x280x415mm
	Container loading	
Temperature	Operation	-20 ~ 65 degree C
	Storage	-30 ~ 80 degree C

* Higher brightness is on demand.

Ordering information

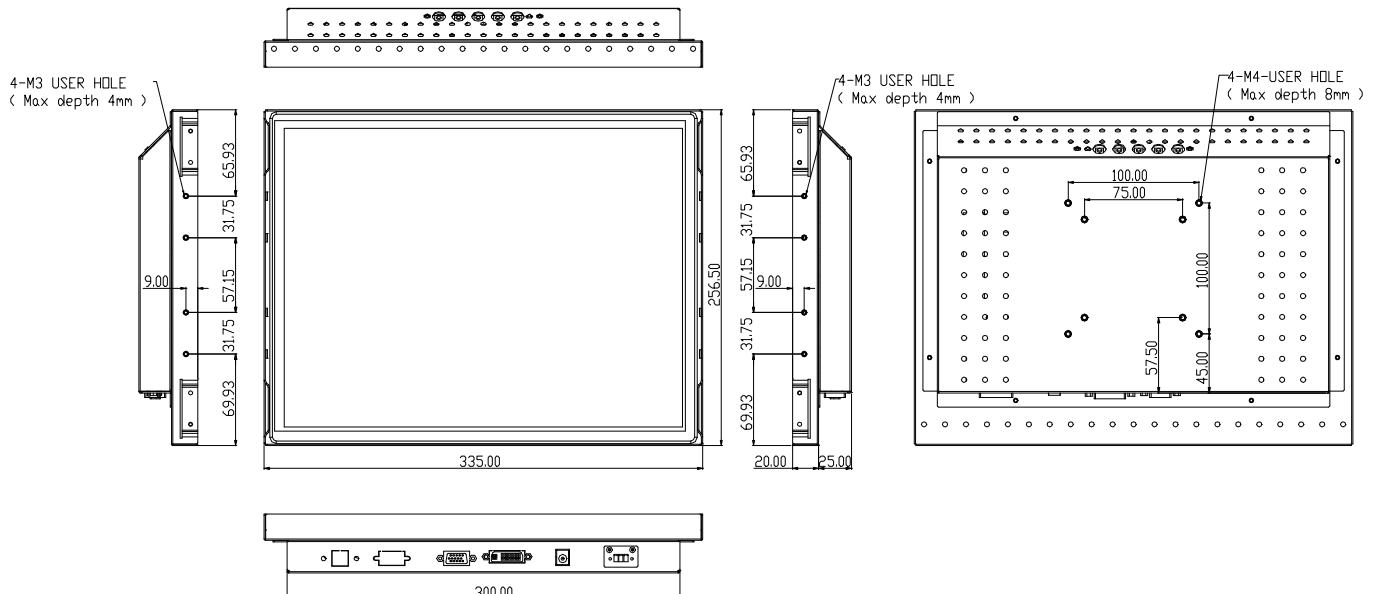
Model selection

HA-150-XYZ	X: Panel selection	Y: Input selection	Z: Touch selection
	0: Standard, chosen	0: Standard, VGA/DVI	0: Standard, none
	A: Specified LCD	V: VGA only	G: Glass
	B: Specified LCD	H: VGA/DVI/HDMI	R: Resitive
	...etc. Specified LCD	P: DVI/HDMI/DP	C: Surface capacitive
		S: VGA/DVI/S-video	P: Projective capacitive
			I : IR
			S: SAW

Optional accessories

- * Power adapter 100 ~ 240 Vac adapter with 12Vdc / 3A o/p
- * Power cord 1.8M power cord, US / EU
- * Signal cable 1.8M VGA cable, 1.8M DVI cable, 1.8M RS232 cable

Product drawing



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HA-185

18.5" High brightness open frame LCD monitor with auto-dimming

Features

- High brightness with auto-dimming control (energy saving)
- For kiosk, outdoor, semi-outdoor, digital signage application
- 18.5" WXGA TFT LCD with LED backlight
- Removable environment light sensor
- VESA mount (75x75, 100x100mm)
- RS232 for remote control



Specifications

LCD panel	Size	18.5" (16:9)
	Backlight	LED
	Panel type	TN
	Pixel pitch	0.300x0.300 mm
	Active area	409.8x230.4 mm
	Brightness	1000 cd/m2 *
	Contrast	1000 : 1
	Viewing angle	170 / 160 degree
	Resolution	1366 x 768
	Display color	16.7M (6 bit+HiFRC)
	Response time	Tr/Tf=3.8/1.2 mS
	Video	Hor. frequency
Ver. frequency		60/70/75 Hz
Pixel rate		137 MHz

Signal input	VGA, DVI-I	
OSD adjustment	Power, Enter, Left, Right, Auto	
Power	DC connector	2.5mm diameter
	DC input	12 Vdc / 2.2A
	Consumption	26W
	Management	VESA DPMS
Mounting	75x75, 100x100mm VESA mount	
Dimension	438.9 (W) x 257.6 (H) x 50 (D) mm	
Net weight		
Package	Packing	3 pcs / carton
	Carton size	
	Container loading	
Temperature	Operation	-20 ~ 60 degree C
	Storage	-30 ~ 80 degree C

* Higher brightness is on demand.

Ordering information

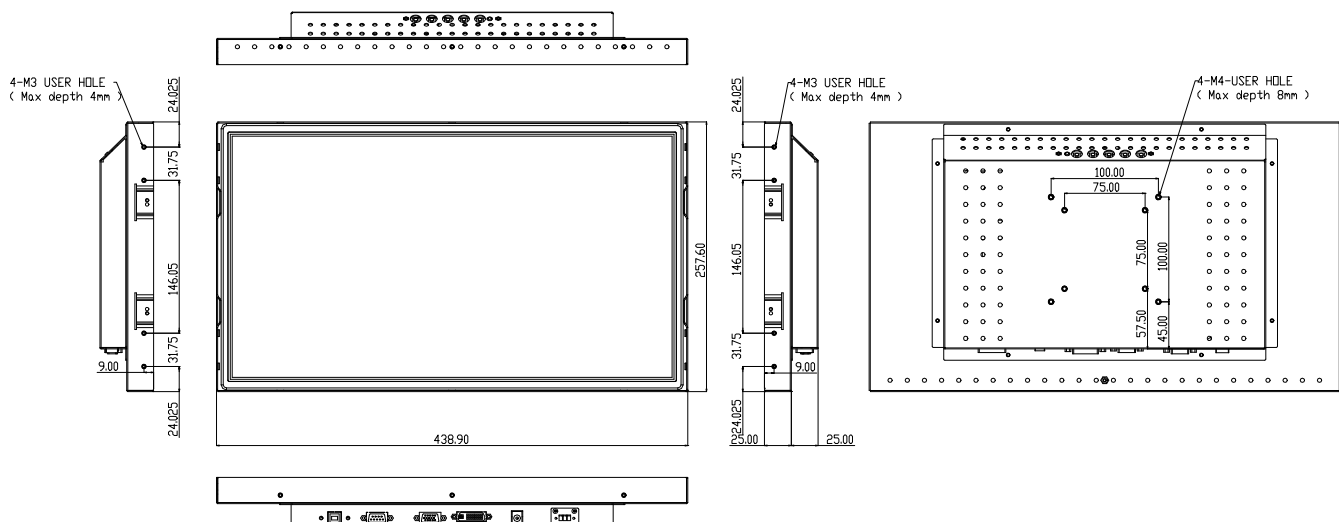
■ Model selection

HA-185-XYZ	X: Panel selection	Y: Input selection	Z: Touch selection
	0: Standard, chosen	0: Standard, VGA/DVI	0: Standard, none
	A: Specified LCD	V: VGA only	G: Glass
	B: Specified LCD	H: VGA/DVI/HDMI	R: Resistive
	...etc. Specified LCD	P: DVI/HDMI/DP	C: Surface capacitive
		S: VGA/DVI/S-video	P: Projective capacitive
			I: IR
			S: SAW

■ Optional accessories

- * Power adapter 100 ~ 240 Vac adapter with 12Vdc / 5A o/p
- * Power cord 1.8M power cord, US / EU
- * Signal cable 1.8M VGA cable, 1.8M DVI cable, 1.8M RS232 cable

Product drawing



* All specification and photos are subject to change without notice.

HA-156

15.6" High brightness open frame LCD monitor with auto-dimming



Features

- High brightness with auto-dimming control (energy saving)
- For kiosk, outdoor, semi-outdoor, digital signage application
- 15.6" WXGA TFT LCD with LED backlight
- Removable environment light sensor
- VESA mount (75x75, 100x100mm)
- RS232 for remote control



Specifications

LCD panel	Size	15.6" (16:9)
	Backlight	LED
	Panel type	TN
	Pixel pitch	0.252x0.252 mm
	Active area	344.23x193.54 mm
	Brightness	1000 nits (max.) *
	Contrast	500 : 1
	Viewing angle	80/80/85/85 degree
	Resolution	1366 x 768
	Display color	16.7M (6 bit+HiFRC)
Video	Response time	Tr/Tf=6/2 mS
	Hor. frequency	30 ~ 76 KHz
	Ver. frequency	60/70/75 Hz
	Pixel rate	137 MHz

Signal input	VGA, DVI-I	
OSD adjustment	Power, Enter, Left, Right, Auto	
Power	DC connector	2.5mm diameter
	DC input	12 Vdc / 1.5A
	Consumption	18W
	Management	VESA DPMS
Mounting	75x75, 100x100mm VESA mount	
Dimension		
Net weight		
Package	Packing	3 pcs / carton
	Carton size	
	Container loading	
Temperature	Operation	-20 ~ 60 degree C
	Storage	-30 ~ 80 degree C

* Higher brightness is on demand

Ordering information

Model selection

HA-156-XYZ	X: Panel selection	Y: Input selection	Z: Touch selection
	0: Standard, chosen	0: Standard, VGA/DVI	0: Standard, none
	A: Specified LCD	V: VGA only	G: Glass
	B: Specified LCD	H: VGA/DVI/HDMI	R: Resistive
	...etc. Specified LCD	P: DVI/HDMI/DP	C: Surface capacitive
		S: VGA/DVI/S-video	P: Projective capacitive
			I: IR
			S: SAW

Optional accessories

- * Power adapter 100 ~ 240 Vac adapter with 12Vdc / 3A o/p
- * Power cord 1.8M power cord, US / EU
- * Signal cable 1.8M VGA cable, 1.8M DVI cable, 1.8M RS232 cable

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