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Display Solutions

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- / Entertainment/Gaming/Slot Machine/Advertisement
- / Transportation



Trusted ePlatform Services

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Trusted ePlatform Services

ADVANTECH

Advantech Display Solutions

At Advantech, we have established our brand recognition as trusted embedded platform partners for decades and built tight cooperation with distributors and system integrators. To further assist you, our valuable partners, to get your solutions to market quickly, cost-effectively and reliably, we are proud to offer an array of embedded display solutions with different levels of integration.

Partnering with Advantech Display Solutions, you will enjoy

Full integration flexibility and cost-effective display solutions

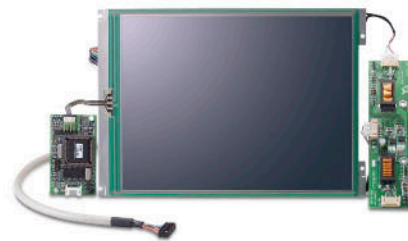
Our display solutions offer different levels of integration starting from LCD kits (ES-1000 series), semi-integrated Smart Displays (ES-2000 series), and open-frame Industrial LCD Monitors (ES-3000 series). Besides standard models, we also offer "sunlight readable" models for outdoor applications, "wide operating temp" models for installations in harsh environments, and much more. No matter which industrial application you are looking for, Advantech has the solution that perfectly matches you!

Proven compatibility with Advantech CPU cards

At Advantech, we are proud to say that each Advantech's CPU card has its compatible display solutions ranging from LCD kits to semi-integrated products. To assist you in finding the perfect match, we have introduced a hassle free tool called "Selection Wizard" that helps you find the display solutions you need in three simple steps.

Project lifetime care support

Post-service support is just as important to our partnership as design and manufacturing. With our global logistics and local support network, you are guaranteed to get expert technical assistance and good RMA service. In the meanwhile, Advantech is capable of offering long-term product support with fixed mechanical design for replacing models.



ES-1000 LCD Kit Series



ES-2100 Open Frame Monitor Series



ES-2200 Rugged Panel Mount Monitor Series



ES-3000 Industrial LCD Monitor

Display Solutions Application Scenarios

Controllers/Human-Machine Interface Application

Spilled liquids, hot steam, shock, and vibration are key concerns for industrial monitors in Control and HMI applications. Also, reliability is crucial because shut-down of a production line is quite costly. At Advantech, we make embedded displays that are reliable, have a long service life, and have long-term availability of replacement parts.



Kiosk Application

Kiosk applications such as ticketing, POI, and POS require a highly reliable and easily maintainable display. Our rugged, high-brightness, high-contrast embedded displays are ideal for these applications. In addition, we provide versatile panel sizes and touch screens including resistive, capacitive, SAW (Surface Acoustic Wave), and Infrared (vandal-proof).



Banking Terminal Application

The key for embedded ATM displays is making them rugged, sunlight readable, available for 24/7 use, and capable of withstanding extreme temperature. Advantech offer display solutions with high brightness, various touch screen options (vandal-proof model also available), and wide operating temperatures.



Outdoor Application

Advantech has introduced the "Sunlight Readable" feature into products for outdoor applications. To overcome the concerns of LCD backlight life preservation, power preservation, and thermal problems, we adapted transfective technology (please see page 9 for detailed information) to use the Sun's energy to brighten the screen in direct sunlight. Our transfective monitors consume less power and generates less heat than comparable high brightness monitors.



Display Advertising Application

Traveling in a train or a bus is often uneventful for the majority of passengers, whose attention can be easily attracted. An advertising display solution is the way to go for efficient and reliable distribution of information to passengers. High resolution, wide viewing angles, sunlight readability and rugged design make our displays more suitable for advertising in transport applications.



Use Selection Wizard to Find LCD Solutions in 3 Easy Steps

Step 1 Initiate Selection Wizard



The Display Solutions' Selection Wizard serves as the most convenient tool to help you incorporate a perfectly matching display products into your application. Simply browse to www.advantech.com/ePlatform/DS to initiate Selection Wizard.

Step 2 Input Project Inquires



Select the product series based on the integration level of your project. Choose "LCD Size", "Resolution", "Touch Screen Type", "Signal Interface" and "CPU Card to Match" to find a display solution that matches your needs.

Step 3 Ask for Quotation



Click "Ask for Quotation" and our sales representative will contact you directly.

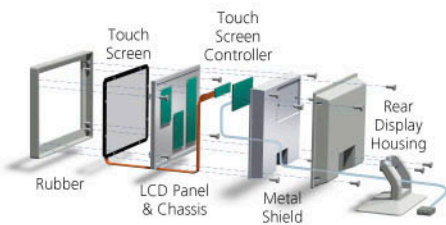
Industrial LCD Monitor

IP65 Rated Safety

This industrial LCD monitor (ES-3000 series) is a highly integrated embedded LCD touch screen with EMI safety certification. The rubber plate is designed to protect against water and dust penetration. It has a steel enclosure designed to integrate easily with embedded industrial display applications.



ES-3000 Anatomy



Touch Screen Selection



- Tempered Glass
- Resistive
- Capacitive
- SAW
- Infrared Vandal Proof

Versatile Size Selection



Size: 12", 15", 17"

Features

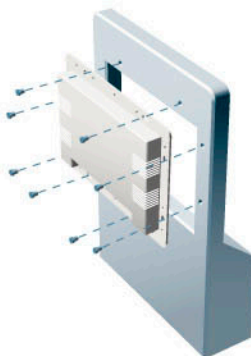
Sunlight Readable Option

Transflective technology delivers high quality outdoor display solutions by enabling the LCD screen to show richer and more vibrant images in sunlit environments.



Rear Mounting

ES-3000 is designed with rear mounting for embedded display applications. Its rubber plate has an IP65 rating which protects against water and dust penetration. It has a steel enclosure designed to easily integrate with embedded industry display applications.



Benefits

- Long life industrial component support
- IP65/NEMA-4 sealed for water and dust resistance
- Easy installation with rubber front bezel seals
- EMI safety

Application Scenarios



Case Study

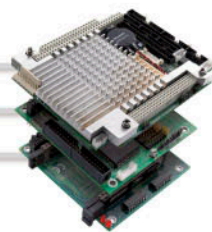
New Generation Voting System

Imtech is a well-known European provider of Information and Communication Technologies (ICT) for public, private, and government organizations. Imtech was approached by a Dutch printing house to provide a new smart voting system to replace the existing system.

Imtech integrated their own industrial hardware design and voting application software with Advantech's PC/104 embedded single board computer. The low voltage Pentium CPU module and additional PCMCIA and RS-232 PC/104 modules were combined to provide extra I/O and communication. PC/104's highly compact and vibration resistant configuration allows additional PC/104 modules to be stacked together in a highly space efficient way, which in turn allowed Imtech to design a light and mobile housing with unique design features for voter privacy and security. A rugged industrial LCD monitor (ES-3000 series) provided the output display and touch screen input capability. The open-frame LCD panel architecture allowed rear mounting into Imtech's specially designed case. The system needed to be able to be user-friendly enough to allow the voting public to register their votes and deliver 100% reliable results back to the centralized computer in as short a time as possible.



ES-3000
17" Display with
Capacitive Touchscreen



Advantech's PC/104
Embedded Single
Board Computer

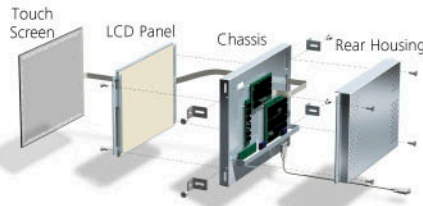
Open Frame & Rugged Panel Mount Monitor

Seamless Integration with Advantech Box PC/IPC

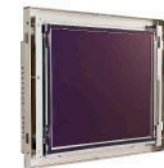
ES-2000 Series is a new type of display designed to meet the needs of customers who want to quickly and easily integrate their solutions with Advantech Embedded Box Computers such as ARK, DVS and DSA. Advantech offers two subcategories of the ES-2000 series: ES-2100 series (open frame display) and ES-2200 series (rugged panel mount display).



■ ES-2000 Anatomy



■ Touch Screen Selection



- Tempered Glass
- Resistive
- Capacitive
- SAW
- Infrared Vandal Proof

■ Rugged Aluminum Front Bazel



- Versatile LCD size selection: 6.5" ~ 19"
- Industrial grade rugged front bezel design - ES-2200 series only

■ Features

Wide Operating Temperate

ES-2000 series offers specially featured LCDs with a wide operating temperature (-20 ~ 70 °C). These special LCDs perfectly match operating environments with extreme temperatures.



High Brightness

ES-2000 series offers specially featured LCDs with high brightness (1000, 1200, or 1500 nits). These special LCDs perfectly match outdoor/rooftop environments that need sunlight readable displays.



Wide View Angle

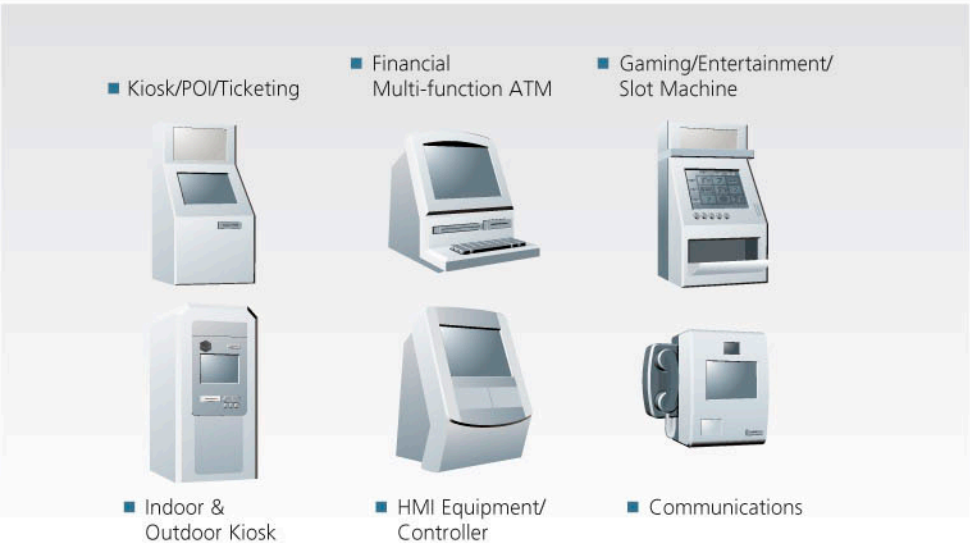
Wide viewing angle LCDs normally have 130° horizontal and 110° vertical viewing angles. ES-2000 series offers wider 160° horizontal and 150° vertical viewing angles. This enhanced all-round view enables a wider audience to see a single screen.



■ Benefits

- Flexible & customizable face plates for easy re-engineering
- Versatile interface options: LVDS, VGA (DVI, S-video option)
- Long-term industrial components support
- Fully integrated with all Advantech Box Computers
- Versatile sunlight readable options

■ Application Scenarios



■ Case Study

Real-time Monitoring System for Metro Train

MRT Taipei began operation in 1993. MRT Taipei has rapidly built a 67.2 km network that transports an average of over 1 million passengers per day. Train drivers must pay special attention to the status of each metro car to ensure passenger safety.

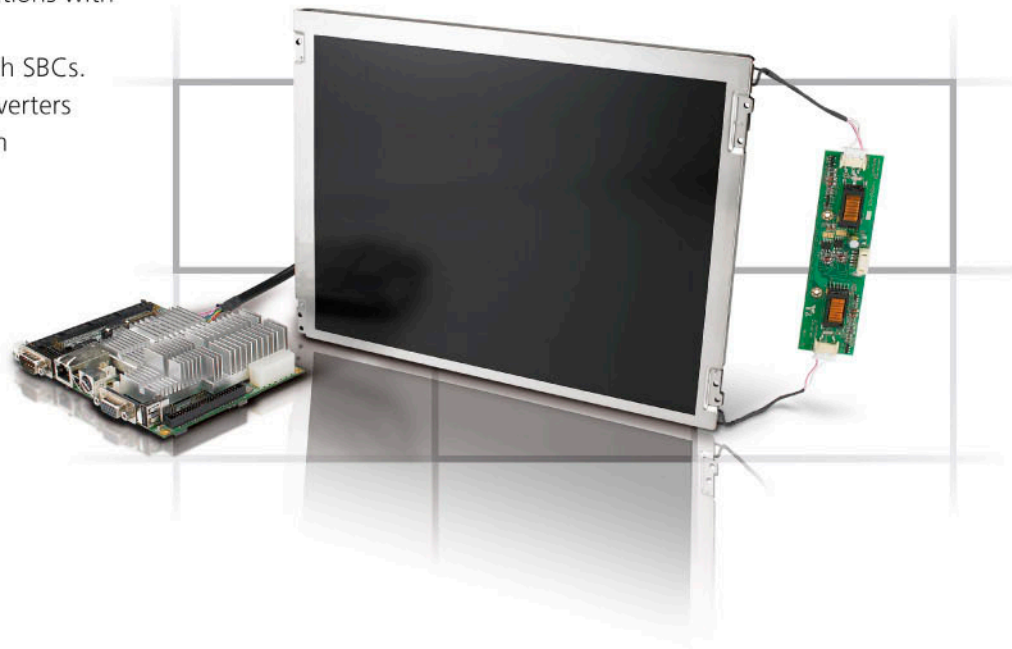
An Advantech ES-2000 Smart Display on the operator's panel helps MRT Taipei drivers to monitor metro car status. The Smart Display helps the train driver to see any emergency event and take appropriate action.



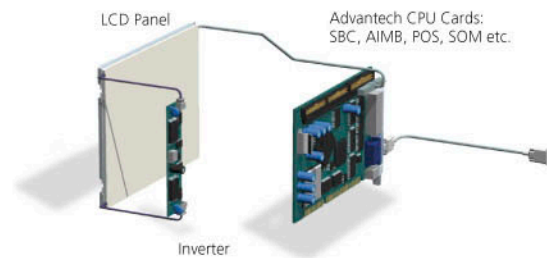
LCD Kits

Proven Compatibility with Advantech SBCs

LCD Kits (ES-1000 series) provide the most cost effective display solutions with proven features and seamless compatibility with all Advantech SBCs. They also come with cables, inverters and the assurance of long-term industrial component support.



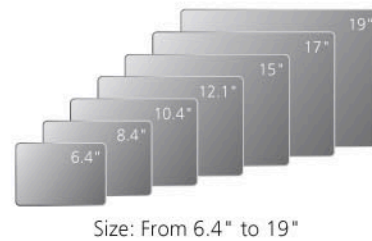
ES-1000 Anatomy



Touch Screen Selection

- Tempered Glass
- Resistive
- Capacitive
- SAW
- Infrared Vandal Proof

Versatile Size Selection



Benefits

- Versatile LCD size selection: 6.4" ~ 19" for small & large projects
- Long-life industrial components support
- Fully integrated and cost-effective
- Fully compatible with Advantech CPU boards
- Special LCD feature support, e.g. wide temperature, high brightness, sunlight readable
- Bundled with touch module for easy integration

Application Scenarios



Case Study

Taipei 101 Elevator Signage

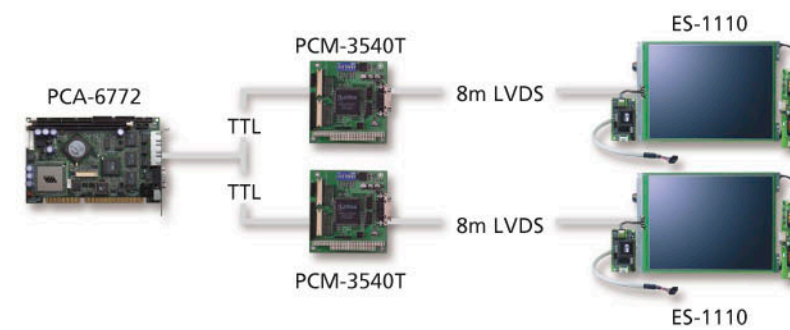
Located in the financial district of Taipei, Taiwan, Taipei 101 is currently the tallest building in the world. At 509.2 meters, this 101-storey tower now officially holds the world's tallest building title that previously held by Petronas Tower in Kuala Lumpur, Malaysia. The tower's design and specifications are all based on the "8", a lucky number in traditional Chinese culture.

Taipei 101 is one of the few buildings in the world equipped with double-deck elevators. Inside the building, 52 high-speed elevators are installed as critical transportation to carry people to different floors. The two monitors play great interactive media for people riding the elevators.

Advantech worked closely with the system integrator to accomplish this project. We provided embedded LCD kits, boards, and accessories to provide a solid platform for interactive media content delivery.

System Architecture:

- Two 10.4" TFT LCD kits.
- PCA-6772 as the computer platform for the video source.
- Two PCM-3540T LVDS transmitter modules extend the range of the PCA-6772 video signals.



ES-3000 Series

Model No.	Display Size	LCD Model No.	Resolution (pixels)	Contrast Ratio	Brightness (nits)	Backlight MTBF	Viewing Angle U/D/L/R	Interface	Operating Temp.	Storage Temp.	Outline Dimensions (W x H x D)
ES-3112C-VSME	12.1"	AA121SL03	800 x 600 SVGA	500:1	350	50,000 hrs	50°/40°/60°/60°	VGA	-20 ~ 60 °C	-20 ~ 70 °C	390 x 297 x 49
ES-3112R-VSME	12.1"	AA121SL03	800 x 600 SVGA	500:1	350	50,000 hrs	50°/40°/60°/60°	VGA	-20 ~ 60 °C	-20 ~ 70 °C	390 x 297 x 49
ES-3112V-VSA-SRE New	12.1"	G121SN01H	800 x 600 SVGA	500:1	400	50,000 hrs	60°/50°/70°/70°	VGA	-10 ~ 65 °C	-20 ~ 70 °C	390 x 297 x 49
ES-3115C-VXAE	15"	G151XG01	1024 x 768 XGA	400:1	350	50,000 hrs	40°/60°/60°/60°	VGA	0 ~ 50 °C	-20 ~ 60 °C	414 x 322.2 x 50
ES-3115R-VXAE	15"	G151XG01	1024 x 768 XGA	400:1	350	50,000 hrs	40°/60°/60°/60°	VGA	0 ~ 50 °C	-20 ~ 60 °C	414 x 322.2 x 50
ES-3115V-VXA-SRE New	15"	G151XG02	1024 x 768 XGA	500:1	550	50,000 hrs	70°/50°/70°/70°	VGA	0 ~ 50 °C	-20 ~ 60 °C	414 x 322.2 x 50
ES-3117C-VEAE	17"	M170EG01 V8	1280 x 1024 SXGA	500:1	300	50,000 hrs	70°/60°/70°/70°	VGA	0 ~ 50 °C	-20 ~ 60 °C	448 x 358 x 58.3
ES-3117R-VEAE	17"	M170EG01 V8	1280 x 1024 SXGA	500:1	300	50,000 hrs	70°/60°/70°/70°	VGA	0 ~ 50 °C	-20 ~ 60 °C	448 x 358 x 58.3
ES-3117V-VEA-SRE New	17"	M170EG01 V9	1280 x 1024 SXGA	500:1	400	50,000 hrs	70°/60°/70°/70°	VGA	0 ~ 50 °C	-20 ~ 60 °C	448 x 358 x 58.3

Note: The model numbers shown above are only applicable to resistive and capacitive touch screen options. Please refer to the selection wizard website for other options and detailed specifications.

ES-2000 Series

Open Frame Series

Model No.	Interface	Display Size	LCD Model No.	Resolution (pixels)	Contrast Ratio	Brightness (nits)	Backlight MTBF	Viewing Angle L/R/U/D	Operating Temp.	Outline Dimensions (W x H x D)
ES-2119R-VEAE New	LVDS	19"	M190EG01	1280 x 1024 SXGA	1300:1	300	CCFL, 4-tubes, 50,000 hrs	89°/89°/89°/89°	0 ~ 50 °C	TBD
ES-2117R-VEAE New	LVDS	17"	M170EG01 V8	1280 x 1024 SXGA	500:1	300	CCFL, 2-tubes, 50,000 hrs	70°/60°/70°/70°	0 ~ 50 °C	402.1 x 320.4 x 56.24
ES-2115R-VXAE	VGA	15"	G150XG01	1024 x 768 XGA	400:1	350	CCFL, 2-tubes, 50,000 hrs	40°/60°/60°/60°	0 ~ 50 °C	389 x 285 x 50
ES-2112R-VXME	VGA	12.1"	AA121XH01	1024 x 768 XGA	300:1	300	CCFL, 2-tubes, 50,000 hrs	60°/40°/60°/60°	-20 ~ 70 °C	337 x 251 x 49.36
ES-2112R-VSAE	VGA	12.1"	G121SN01	800 x 600 SVGA	500:1	400	CCFL, 2-tubes, 50,000 hrs	50°/60°/70°/70°	-10 ~ 50 °C	337 x 251 x 49.36
ES-2110R-VSAE	VGA	10.4"	G104SN02/G104SN03	800 x 600 SVGA	500:1	230	CCFL, 2-tubes, 50,000 hrs	35°/65°/60°/60°	0 ~ 50 °C	292 x 220 x 42
ES-2108R-VSAE New	LVDS	8.4"	G084SN05	800 x 600 SVGA	350:1	350	CCFL, 2-tubes, 50,000 hrs	60°/40°/60°/60°	0 ~ 50 °C	252 x 193 x 47.43
ES-2106R-VVAE New	LVDS	6.5"	G065VN01	640 x 480 VGA	450:1	400	CCFL, 2-tubes, 50,000 hrs	60°/60°/70°/70°	-20 ~ 60 °C	190 x 142.5 x 40

Note: The model numbers shown above are only applicable to resistive touch screen options. Please refer to the selection wizard website for other options and detailed specifications.

Rugged Aluminum Panel Mount Monitor Series (Sunlight Readable Option)

Model No.	Interface	Display Size	OEM LCD	Resolution (pixels)	Contrast Ratio	Brightness (nits)	Backlight MTBF	Viewing Angle L/R/U/D	Operating Temp.	Outline Dimensions (W x H x D)
ES-2219R-VEAE New	VGA	19"	M190EG01	1280 x 1024 SXGA	1300:1	300	CCFL, 4-tubes, 50,000 hrs	89°/89°/89°/89°	0 ~ 50 °C	TBD
ES-2217R-VEAE New	VGA	17"	M170EG01 V8/V.9	1280 x 1024 SXGA	500:1	300	CCFL, 2-tubes, 50,000 hrs	70°/60°/70°/70°	0 ~ 50 °C	430.5 x 347 x 59.5
ES-2215R-VXAE New	VGA	15"	G150XG01/G150XG02	1024 x 768 XGA	400:1	350	CCFL, 2-tubes, 50,000 hrs	40°/60°/60°/60°	0 ~ 50 °C	398 x 314 x 58.7
ES-2212R-VXME New	VGA	12.1"	AA121SXH01	1024 x 768 XGA	300:1	300	CCFL, 2-tubes, 50,000 hrs	60°/40°/60°/60°	-20 ~ 70 °C	360 x 274 x 59.5
ES-2212R-VSAE New	VGA	12.1"	G121SN01	800 x 600 SVGA	500:1	400	CCFL, 2-tubes, 50,000 hrs	50°/60°/70°/70°	-10 ~ 50 °C	360 x 274 x 59.5
ES-2210R-VSAE New	VGA	10.4"	G104SN02/G104SN03	800 x 600 SVGA	350:1	230	CCFL, 2-tubes, 50,000 hrs	35°/65°/60°/60°	0 ~ 50 °C	315 x 243 x 50
ES-2208R-VSAE New	VGA	8.4"	G084SN05/G084SN05H	800 x 600 SVGA	350:1	350	CCFL, 2-tubes, 50,000 hrs	60°/40°/60°/60°	0 ~ 50 °C	282 x 217 x 51.7
ES-2206R-VVAE New	VGA	6.5"	G065VN01	640 x 480 VGA	450:1	400	CCFL, 2-tubes, 50,000 hrs	60°/60°/70°/70°	-20 ~ 60 °C	218.5 x 170 x 46.5

Note: The model numbers shown above are only applicable to resistive touch screen options. Please refer to the selection wizard website for other options and detailed specifications.

Ultra-high Brightness Open Frame Series

Model No.	Interface	Display Size	OEM LCD	Resolution (pixels)	Contrast Ratio	Brightness (nits)	Backlight MTBF	Viewing Angle L/R/U/D	Operating Temp.	Outline Dimensions (W x H x D)
ES-2119C-VEA-HE Coming Soon	VGA	19"	M190EG01	1280 x 1024 SVGA	1300:1	1000	LED, 50,000 hrs	89°/89°/89°/89°	-20 ~ 70 °C	TBD
ES-2117C-VEA-HE Coming Soon	VGA	17"	M170EG01 V.9	1280 x 1024 SVGA	500:1	1000	CCFL, 12-tubes, 50,000 hrs	70°/60°/70°/70°	0 ~ 50 °C	TBD
ES-2115C-VXA-HE New	VGA	15"	AA150XN08	1024 x 768 SVGA	600:1	800	LED, 50,000 hrs	60°/40°/60°/60°	-10 ~ 60 °C	389 x 285 x 53
ES-2112C-VXM-HE New	VGA	12.1"	AA121XJ02	1024 x 768 XGA	700:1	1000	CCFL, 4-tubes, 50,000 hrs	45°/75°/60°/60°	-20 ~ 70 °C	337 x 251 x 53
ES-2112C-VSM-HE New	VGA	12.1"	AA121SN02	800 x 600 SVGA	700:1	1000	CCFL, 4-tubes, 50,000 hrs	45°/75°/60°/60°	-20 ~ 70 °C	337 x 251 x 53
ES-2110C-VSA-H New	VGA	10.4"	G104SN05	800 x 600 SVGA	500:1	1000	CCFL, 6-tubes, 50,000 hrs	60°/60°/40°/60°	0 ~ 50 °C	292 x 220 x 58.15
ES-2108C-VSA-HE Coming Soon	VGA	8.4"	G084SN05	800 x 600 SVGA	350:1	1000	LED, 50,000 hrs	60°/60°/60°/40°	0 ~ 50 °C	TBD
ES-2106C-VVA-HE Coming Soon	VGA	6.5"	G065VN01	640 x 480 VGA	450:1	1000	LED, 50,000 hrs	70°/70°/60°/60°	-20 ~ 60 °C	190 x 143 x 63

Note: The model numbers shown above are only applicable to capacitive touch screen options. Please refer to the selection wizard website for IR and SAW options and detailed specifications.

ES-1000 Series

Model No.	Display Size	LCD Manufacturer	Panel Model	Resolution (pixels)	Brightness (nits)	Contrast Ratio	Signal Interface	Supply Voltage	Operating Temp.	Viewing Angle (U/D/L/R)	Backlight MTBF	Outline Dimensions (W x H x D)
ES-1120N-LUAE New	20.1"	AUO	M201UN02	UXGA	300	1000:1	24bit 2 x LVDS	5	0 ~ 50 °C	85°/85°/85°/85°	50,000 hrs	432 x 331 x 25
ES-1119N-LEAE New	19"	AUO	M190EG01	SXGA	300	1300:1	24bit 2 x LVDS	5	0 ~ 50 °C	89°/89°/89°/89°	50,000 hrs	396 x 324 x 17.5
ES-1117N-LEA-SRE New	17"	AUO	M170EG01 V9	SXGA	400	500:1	24bit 1 x LVDS	3.3	0 ~ 50 °C	70°/60°/70°/70°	50,000 hrs	396 x 324 x 17.5
ES-1117N-LEAE	17"	AUO	M170EG01 V8	SXGA	300	500:1	24bit 1 x LVDS	3.3	0 ~ 50 °C	70°/60°/70°/70°	50,000 hrs	358.5 x 296.5 x 17
ES-1115R-LXAE	15"	AUO	G150XG01	XGA	350	400:1	18bit LVDS	3.3	0 ~ 50 °C	40°/60°/60°/60°	50,000 hrs	326.5 x 253.5 x 12
ES-1115N-LXAE	15"	AUO	G150XG01	XGA	350	400:1	18bit LVDS	3.3	0 ~ 50 °C	40°/60°/60°/60°	50,000 hrs	326.5 x 253.5 x 12
ES-1112N-TSME	12.1"	Mitsubishi	AA121SL01	SVGA	350	350:1	18bit TTL	3.3	-20 ~ 70 °C	50°/40°/60°/60°	50,000 hrs	280 x 210 x 12
ES-1112N-LSME	12.1"	Mitsubishi	AA121SL03	SVGA	350	500:1	18bit LVDS	3.3	-20 ~ 70 °C	50°/40°/60°/60°	50,000 hrs	280 x 210 x 12
ES-1112N-LSAE	12.1"	AUO	G121SN01	SVGA	350	500:1	18bit LVDS	3.3	-10 ~ 65 °C	50°/60°/70°/70°	50,000 hrs	279 x 209 x 11
ES-1112N-LXME	12.1"	Mitsubishi	AA121XH01	XGA	300	300:1	18bit LVDS	3.3	-20 ~ 70 °C	50°/40°/60°/60°	50,000 hrs	280 x 210 x 12
ES-1110N-TVME	10.4"	Mitsubishi	AA104VC02	VGA	380	300:1	18bit TTL	3.3	-20 ~ 70 °C	50°/40°/60°/60°	50,000 hrs	243 x 181.6 x 12.2
ES-1110N-LSAE	10.4"	AUO	G104SN03	SVGA	230	500:1	18bit LVDS	3.3	0 ~ 50 °C	35°/65°/60°/60°	20,000 hrs	236 x 174.3 x 5.6
ES-1110N-LSA-H	10.4"	AUO	G104SN05	SVGA	1500	500:1	18bit LVDS	3.3	0 ~ 50 °C	40°/60°/60°/60°	50,000 hrs	243 x 184 x 27.2
ES-1110R-LSAE	10.4"	AUO	G104SN03	SVGA	180	500:1	18bit LVDS	3.3	0 ~ 50 °C	35°/65°/60°/60°	20,000 hrs	236 x 174.3 x 7.4
ES-1108N-TVME	8.4"	Mitsubishi	AA084VC05	VGA	480	500:1	18bit TTL	3.3	-20 ~ 70 °C	60°/50°/65°/65°	50,000 hrs	199.5 x 149 x 11.5
ES-1108N-LSAE	8.4"	AUO	G084SN05 V0	SVGA	350	500:1	18bit LVDS	3.3	0 ~ 50 °C	60°/40°/60°/60°	50,000 hrs	203 x 142.5 x 8
ES-1108R-LSAE New	8.4"	AUO	G084SN05 V1	SVGA	280	500:1	18bit LVDS	3.3	0 ~ 50 °C	60°/40°/60°/60°	50,000 hrs	203 x 142.5 x 9.8
ES-1106N-LVAE	6.5"	AUO	G065VN01	VGA	400	450:1	18bit LVDS	3.3	-10 ~ 70 °C	60°/60°/70°/70°	50,000 hrs	153 x 118 x 10.7
ES-1106N-TVPE New	6.4"	Prime View	PD064VT4W1	VGA	400	400:1	18bit TTL	5	-20 ~ 70 °C	40°/35°/60°/60°	20,000 hrs	175 x 126.5 x 12
ES-1105N-TQAE New	5.6"	AUO	A056DN01	QVGA	500	250:1	TTL	5	0 ~ 60 °C	30°/50°/50°/50°	15,000 hrs	126.5 x 100 x 6.8
ES-1103N-TVPE	3.5"	Prime View	PD035VX2	VGA	250	400:1	TTL	5	-20 ~ 70 °C	15°/35°/50°/50°	10,000 hrs	84.03 x 5.24 x 3.45

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