Intelligent Display Solutions

Enabling Versatile Applications

⁄ **Core Values**

⁄ **Design-in Services**

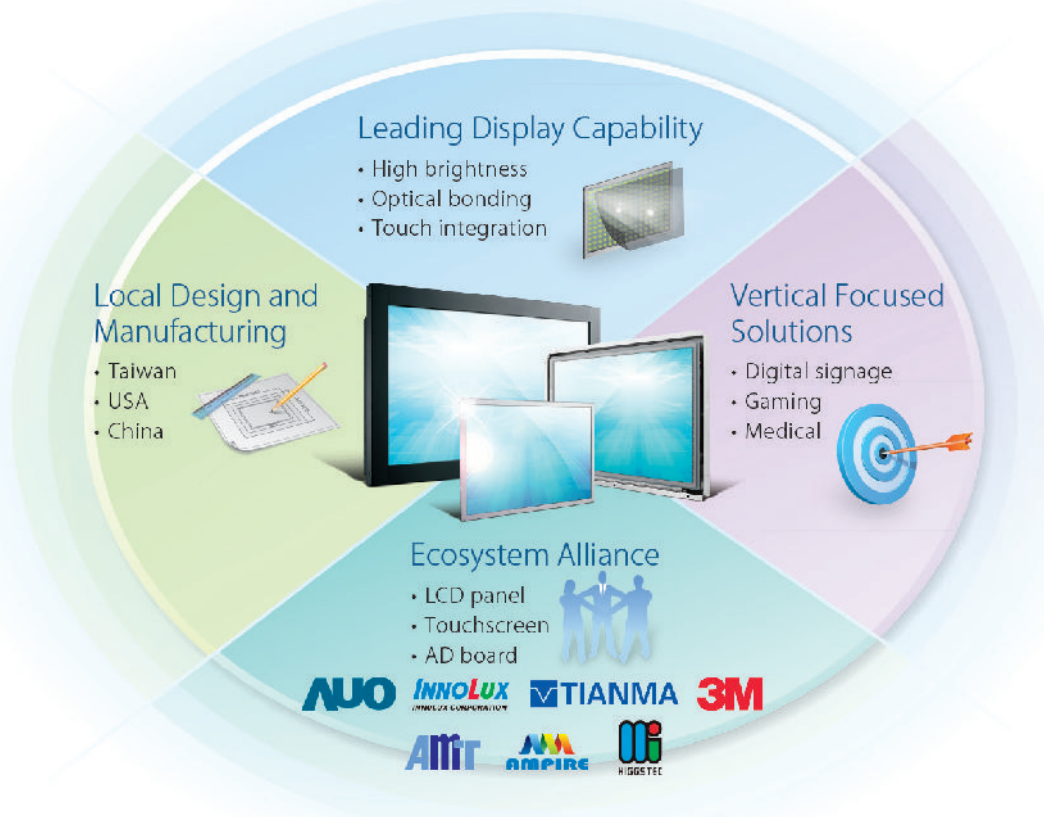⁄ **Vertical Focused Solutions**

⁄ **Product Selection**

ADVANTECH

Enabling an Intelligent Planet

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Intelligent Display Solutions

According to a recent market research, the global display applications market is expected to reach USD 164.24 billion by 2017. What's more, IHS research also projected, in 2017, there will be a CAGR revenue of 10% for Intelligent Systems with integrated displays, representing a huge opportunity. The potential is immense and the opportunities are everywhere.

Advantech provides a wide range of reliable LCD solutions to fulfill those versatile market needs. Our display solutions range from 5.7" to 55", and from 200 nits to 2000 nits, with customized touch integration. Equipped with streamlined design-in services and vertical market focused solutions, Advantech meets customers' requirements and reduces time-to-market and development cost.

Leading Display Capability
• High brightness
• Optical bonding
• Touch integration

Local Design and Manufacturing
• Taiwan
• USA
• China

Vertical Focused Solutions
• Digital signage
• Gaming
• Medical

Ecosystem Alliance
• LCD panel
• Touchscreen
• AD board

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Product Line-up

Industrial LCD Panels	Ultra High Brightness LCDs	Open Frame Monitors
IDK-1000 Series • 5.7"~21.5" size options • Indoor applications • LVDS signal interface	**IDK-2000 Series** • 8.4"~31.5" size options • Outdoor applications • LVDS signal interface	**IDS-3100 Series** • 6.5"~21.5" size options • DVI/VGA interface • Rear/VESA mount

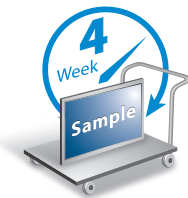| Panel Mount Monitors	Digital Signage Displays	Stretched Signage Displays
IDS-3200 Series • 10.4", 15" size options • DVI/VGA interface • Front/VESA mount	**DSD-3000 Series** • 32", 42", 55" size options • VGA/HDMI/DP interface • Wall mount	**DSD-5000 Series** • 28"(16:3), 38"(16:4.5) size options • DVI/VGA interface • Wall mount

Guaranteed for Time-to-Market

With Advantech, customers are provided with a total services package—from solution consulting, design, integration, and mass production to follow-up service and support. Through one point of contact, customers benefit from a complete product portfolio, flexible customization, the highest quality and local support. Advantech display service team actively helps customer ease the design process and achieve faster time-to-market with four dedicated services.

Customize Your Display in 28 Days

Solution Consulting Service | 5-Day Solution Delivery

At the early consulting stage, Advantech intelligent display service team provides various solutions regarding technical specifications, price, and scheduling which from a display integration stance, customers are most concerned about. As your valuable asset partner, Advantech delivers a solution proposal within 5 days to give your project a head-start.

- Excellent display, touch and thermal solutions
- LCD & SBC compatibility
- Complete product offering

Design and Integration Service | 4-Week Sample Delivery

Equipped with leading LCD technologies and knowledge, Advantech provides a variety of flexible customization services. Moreover, Advantech delivers samples within a timely duration of just 4 weeks.

Customization Items:

- Mechanical Design:
  IP65,open frame, panel mount
- Touch Solution:
  resistive, projective capacitive, surface capacitive, SAW
- Optical Enhancement:
  optical bonding, high brightness, AR film
- Display Integration:
  cable assembly, VBIOS configuration

Manufacturing Service | 6-Week Mass Production

Advantech owns clean rooms in Taiwan, USA, and China and is capable of taking full control of quality management from initial design concepts to mass production. Throughout the production process, all the displays must pass multiple reliability tests. Only then can they be delivered via our global logistic support network.
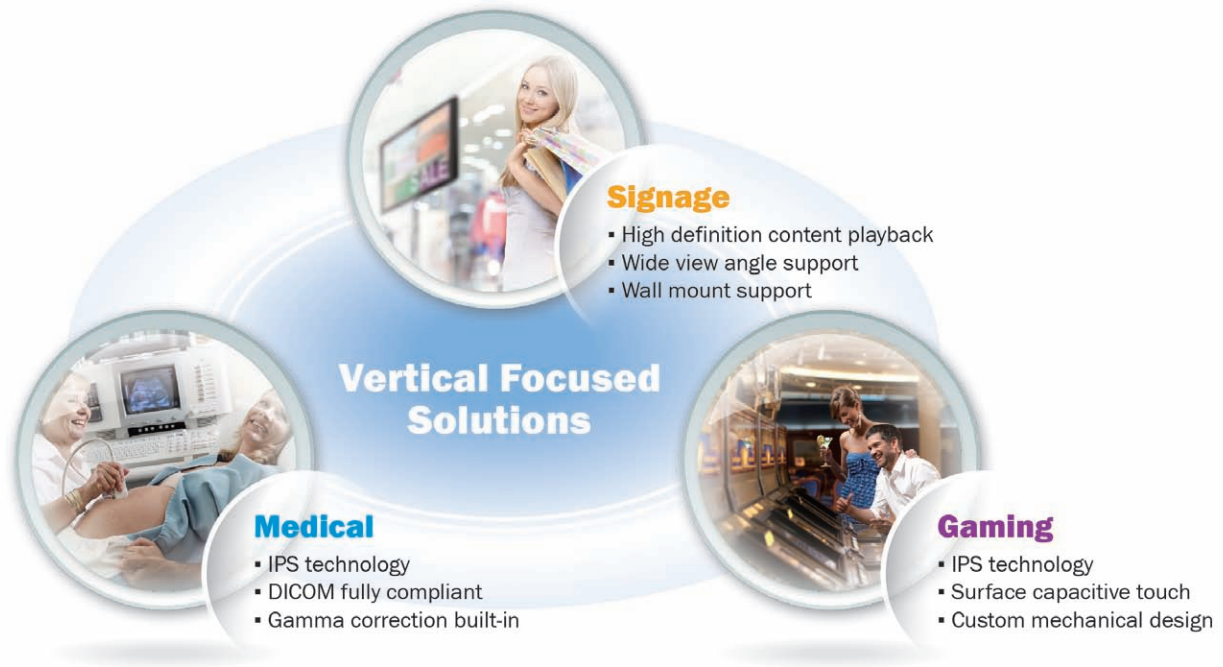
Customer Support Service | 5-Year Extended Warranty

To ensure your long term project success, Advantech offers a 3-year longevity support and 5-year extended warranty portfolio. We also provide LCD repair service and local technical support.

Designed for Vertical Market Success

Other than general-purpose applications, and with years of vertical market expertise, Advantech offers niche display solutions tailored to specific vertical markets such as Digital Signage, Medical and Gaming to better meet customers' needs. With our highly integrated and dedicated support, customers can focus and maximize their value on vertical market development.

Vertical Focused Solutions

Signage
- High definition content playback
- Wide view angle support
- Wall mount support

Medical
- IPS technology
- DICOM fully compliant
- Gamma correction built-in

Gaming
- IPS technology
- Surface capacitive touch
- Custom mechanical design

Digital Signage Displays

Advantech digital signage displays are not only attractive, but reliable enough to withstand the consistent interactivity inherent in public access venues. Our solutions include large format professional monitors and innovative stretched displays which both can be easily integrated with Advantech signage players. All of our solutions are featured with ultra wide viewing angles of 178°/178° and high contrast ratio to deliver optimized video or image content.

Applications:
Retail, e-Bulletin, transportation, restaurant

Touch Screen   Wide View Angle   High Brightness

DSD-3000 Series
Large Format Signage Displays

- 32", 42", 55" size options
- Ultra thin bezel design
- VGA/HDMI/DisplayPort interface
- Optical touch screen solution

DSD-5000 Series
Stretched Signage Displays

- 28", 38" size options
- High brightness
- Ultra wide ratio
- DVI/VGA interface

Medical Solutions

Medical imaging applications require highly consistent image reproduction. Advantech provides sophisticated medical display solutions that can help improve performance and diagnostic accuracy through medical imaging systems. Our solutions cover panels, AD boards and open frame monitors with color management functions which help improve brightness stability, gray scale, color temperature and color gamut. All of our displays are designed with IPS technology which offers superior color accuracy. Most important of all, our solution is fully compliant with the DICOM standard for image communication and image file formats.

Applications:

Ultrasound, clinical and surgical applications

DICOM Compliant — DICOM

Gamma Correction

Super CLEAR IPS

IDK-1000MD Series
LCD Kit and an AD Board

- 15", 19" size options
- VGA / DVI interface
- DICOM compliant
- Gamma level adjustable to 72% NTSC

IDS-3100MD Series
Medical Open Frame Monitors

- 15", 19" size options
- VGA / DVI interface
- DICOM compliant
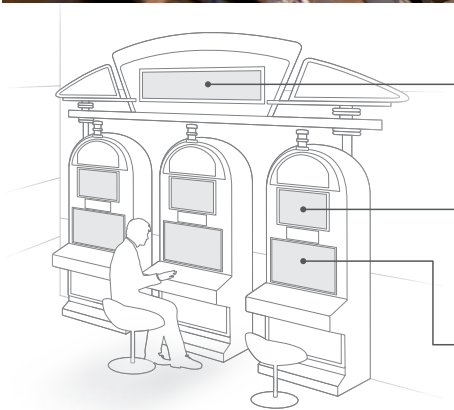- Gamma level adjustable to 72% NTSC

Gaming Solutions

Designed exclusively for gaming applications, our gaming display solutions provide a wide range of gaming monitors to meet the special requirements of applications such as slot machines and casinos. Our solutions include open frame monitors and stretched displays. These display solutions feature widescreens, reliable touch screens and flexible mechanical designs that can be integrated with Advantech gaming platforms for a total gaming solution.

Applications:

Slot machine, lottery terminals, jackpot systems

Touch Screen

178° Wide View Angle

Super CLEAR IPS

Player Tracking Display/Signage
DSD-5000 Series

- 28", 38" screen size options
- Optional protection glass with thickness of 3~9mm
- DVI/VGA interface

Top Display/Main Display
IDS-3100GD Series

- 19", 21.5", 23" size options
- Optional touchscreen: Surface Capacitive, Projected Capacitive, Infra Red, SAW, Optical Touch
- Optional protection glass with thickness of 1.1~5mm
- HDMI/DVI/VGA interface

Product Selection

Industrial Display Kits IDK-1000 Series

Model	IDK-1105	IDK-065	IDK-1107	IDK-1108	IDK-1110	IDK-1112	IDK-1115	IDK-1117	IDK-1119	IDK-1121
Size	5.7"	6.5"	7"	8.4"	10.4"	12.1	15"	17"	19"	21"
Resolution	640 x 480	640 x 480	1024 x 600	800 x 600	800 x 600	800 x 600	1024 x 768	1280 x 1024	1280 x 1024	1920 x 1080
Brightness	500 nits	800 nits	500 nits	450 nits	400 nits	450 nits	400 nits	350 nits	350 nits	300 nits
Contrast Ratio	250:1	600:1	700:1	600:1	700:1	700:1	700:1	800:1	1000:1	5000:1
Viewing Angle (U/D/L/R)	50°/50°/70°/70°	70°/70°/80°/80°	75°/75°/75°/75°	80°/60°/80°/80°	60°/80°/80°/80°	65°/75°/80°/80°	70°/70°/80°/80°	80°/80°/85°/85°	80°/80°/85°/85°	89°/89°/89°/89°
Signal Interface	1 channel LVDS	1 channel LVDS	1 channel LVDS	1 channel LVDS	1 channel LVDS	1 channel LVDS	1 channel LVDS	2 channel LVDS	2 channel LVDS	2 channel LVDS
Touchscreen	4W resistive	4W resistive	4W resistive	4W resistive	4W resistive	5W resistive	5W resistive	5W resistive	5W resistive	5W resistive
LED Backlight MTBF	30K hrs	50K hrs	50K hrs	50K hrs	50K hrs	50K hrs	50K hrs	50K hrs	50K hrs	50K hrs
Operating Temperature	-20~70 °C	-10~60 °C	-20~70 °C	-10~60 °C	-10~60 °C	-20~70 °C	-20~70 °C	0~50 °C	0~50 °C	0~60 °C
Outline Dimension (mm)	127 x 98.43 x 9.1	153 x 120 x 13.2	165.5 x 104.44 x 10.52	203 x 142.6 x 10.3	243 x 184 x 10.6	276 x 209 x 11.3	326.5 x 253.5 x 14.4	358 x 296.5 x 14.6	396 x 324 x 21.7	495.6 x 292.2 x 20.75

High Brightness Display Kits IDK-2000 Series (Outdoor Applications)

Model	IDK-2108	IDK-2110	IDK-2112	IDK-2115	IDK-2117	IDK-2119	IDK-2121	IDK-2132
Size	8.4"	10.4"	12.1"	15"	17"	19"	21.5"	31.5"
Resolution	800 x 600	800 x 600	800 x 600	1024 x 768	1280 x 1024	1280 x 1024	1920 x 1080	1920 x1080
Brightness	1200 nits	1200 nits	1200 nits	1200 nits	1200 nits	1200 nits	1200 nits	2000 nits
Contrast Ratio	600:1	500:1	700:1	700:1	1000:1	1000:1	5000:1	3000:1
Viewing Angle (U/D/L/R)	80°/60°/80°/80°	60°/70°/80°/80°	65°/75°/80°/80°	70°/60°/80°/80°	80°/80°/85°/85°	80°/80°/85°/85°	89°/89°/89°/89°	89°/89°/89°/89°
Signal Interface	1 channel LVDS	1 channel LVDS	1 channel LVDS	1 channel LVDS	2 channel LVDS	2 channel LVDS	2 channel LVDS	1 channel LVDS
Touchscreen (Optional)	4W resistive	4W resistive	5W resistive	5W resistive	5W resistive	5W resistive	5W resistive	-
LED Backlight MTBF	50K hrs	50K hrs	50K hrs	50K hrs	50K hrs	50K hrs	50K hrs	50K hrs
Operating Temperature	-20~70 °C	-20~70 °C	-20~70 °C	-20~70 °C	0~50 °C	0~50 °C	0~60 °C	0~50 °C
Outline Dimension (mm)	203.0 x 142.5 x 8.0	236.0 x 176.9 x 5.7	279 x 209.0 x 9.0	326.5 x 253.5 x 11.5	358.5 x 296.5 x 16.65	396 x 324 x 18.65	495.6 x 292.2 x 17.7	727.4 x 429 x 26

Slim Open Frame Monitors IDS-3100 Series

Model	IDS-3106	IDS-3110	IDS-3112	IDS-3115	IDS-3117	IDS-3119	IDS-3121W
Size	6.5"	10.4"	12.1"	15"	17"	19"	21.5"
Resolution	640 x 480	800 x 600	800 x 600	1024 x 768	1280 x 1024	1280 x 1024	1920 x 1080
Brightness	800 nits	400 nits	450 nits	400 nits	350 nits	350 nits	300 nits
Contrast Ratio	600 : 1	700 : 1	700 : 1	700 : 1	800 : 1	1000 :1	5000:1
Viewing Angle (U/D/L/R)	70°/70°/80°/80°	60°/80°/80°/80°	65°/75°/80°/80°	70°/70°/80°/80°	80°/80°/85°/85°	80°/80°/85°/85°	89°/89°/89°/89°
Signal Interface	DVI/VGA	DVI/VGA	DVI/VGA	DVI/VGA	DVI/VGA	DVI/VGA	DVI/VGA
Touchscreen (Optional)	4W resistive	5W resistive	5W resistive	5W resistive	5W resistive	5W resistive	5W resistive
LED Backlight MTBF	50K hrs	50K hrs	50K hrs	50K hrs	50K hrs	50K hrs	50K hrs
Operating Temperature	0~50 °C	-20~60 °C	-20~60 °C	-20~60 °C	-20~60 °C	0~45 °C	0~55 °C
Outline Dimension (mm)	215 x 160 x 32.1	279.4 x 220 x 30	320.2 x 252 x 30.7	362 x 288 x 32.8	400 x 344.7 x 33.4	438 x 369.7 x 34.3	546.6 x 295.2 x 46

Panel Mount Monitors IDS-3200 Series

Model	IDS-3210	IDS-3215
Size	10.4"	15"
Resolution	800 x 600	1024 x 768
Brightness	400	400
Contrast Ratio	700 : 1	700:1
Viewing Angle (U/D/L/R)	60°/80°/80°/80°	70°/70°/80°/80°
Signal Interface	DVI/VGA	DVI/VGA
Touchscreen (Optional)	5W resistive	5W resistive
LED Backlight MTBF	50K hrs	50K hrs
Operating Temperature	-20~60 °C	-20~60 °C
Outline Dimension(mm)	290.2 x 237.64 x 35.1	365 x 291 x 38

Digital Signage Displays DSD-3000 Series

Model	DSD-3032	DSD-3042	DSD-3055
Size	32"	42"	55"
Resolution	1920 x 1080	1920 x 1080	1920 x 1080
Brightness	350 nits	500 nits	450 nits
Contrast Ratio	3000 : 1	4000:1	4000:1
Viewing Angle (U/D/L/R)	89°/89°/89°/89°	89°/89°/89°/89°	89°/89°/89°/89°
Signal Interface	VGA / HDMI / Display Port	VGA / HDMI / Display Port	VGA / HDMI / Display Port
Touchscreen (Optional)	Optical touch	Optical touch	Optical touch
LED Backlight MTBF	50K hrs	50K hrs	60K hrs
Operating Temperature	5 ~ 45 °C	5 ~ 45 °C	5 ~ 45 °C
Outline Dimension(mm)	743.6 x 438.1 x 73	961 x 555 x 72.7	1238.6 x 709.4 x 72.5

Stretched Signage Displays DSD-5000 Series

Model	DSD-5028	DSD-5038
Size	28" (16:3)	38" (16:4.5)
Resolution	1920 x 358	1920 x 538
Brightness	700 nits	800 nits
Contrast Ratio	3000 :1	4000 : 1
Viewing Angle (U/D/L/R)	89°/89°/89°/89°	88°/88°/88°/88°
Signal Interface	DVI/VGA	DVI/VGA
LED Backlight MTBF	50K hrs	50K hrs
Operating Temperature	0 ~45 °C	0 ~45 °C
Outline Dimension (mm)	736.6 x 167.3 x 43.6	980.9 x 303.2 x 44

Advantech Global Services and Support

Industrial grade products at competitive cost

Strict revision control and design reliability

Global logistics and RMA services with local support

Product longevity up to 3-5 years and superior warranty/service options

Customized embedded OS and BIOS services

Partnership with multiple software companies

Advantech AE

Tzavella 14
Glyfada - Athens
166 75 Greece
Phone +30 - 210 - 96 35 100
Fax   +30 - 210 - 96 05 525
email   buy@advanbuy.com

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www.advantech.gr | www.advanbuy.com

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