

Differentiated Solutions for any Application

Differentiated Solutions for any Application

- ／ Core Values and Technologies
- ／ Product Offerings
- ／ Design To Order Service
- ／ Case Studies
- ／ Product Selection

**ADVANTECH**

Enabling an Intelligent Planet

www.advantech.com

Advantech Industrial Display Systems

Advantech designs, develops and manufactures display systems that meet the demands of industrial display markets in transportation, medical, and many system integration markets globally. Combining proven technologies and flexible manufacturing, Advantech creates class leading solutions for your customers that deliver significant product differentiation and competitive advantage. Our customer-centric approach reinforces all of our activities and is an essential part of the thousands of products we ship daily. Advantech breathes new life into your next design with our award winning display systems. We also provide a display Design To Order Service to provide tailor-made display solutions to meet specific application requirements through advanced, innovative and world leading technologies.

Leading Technology and Professional Cleanroom

Advantech is committed to developing new industrial display technologies and has built class 1,000/10,000 LCD clean rooms with ISO certification to develop our own display technologies in Taiwan, China Kunshan and North American. With monthly capacities of 30,000 pieces and all capabilities in-house, we bring high add-on value, quality and reliability to our industrial display products.



Class 10,000 Clean-room



Professional Engineers



Value-added Services



Assured Quality

Optical Technology

- High brightness up to 2,000nit
- Thermal design
- Anti-reflective coating: <1% reflection
- Privacy and polarising filters
- Dry & wet bonding



Sun Bond



Sunlight Readable



High Brightness

Mechanical Design

- Aluminium, steel and stainless chassis
- Open, closed frame, panel mount and proflat designs
- Panel cutting for panoramic and stretch format display
- Optional IP54/IP65 solution



IP54/IP65



Proflat



Panel-Mount



Open-Frame



Closed-Frame

Industrial Display Systems with Integrated Chassis and Video Card

Industrial Open Frame Monitors



IDS-3000 Series

- 6.5"~21.5" size options
- DVI/VGA interface
- Open/Panel mount options
- Rear/VESA mounting

Digital Signage and Stretched Monitors



DSD-5000 Series

- 28"(16:3), 38"(16:4.5) size options
- DVI/VGA interface
- Wall mount
- EN50155 options

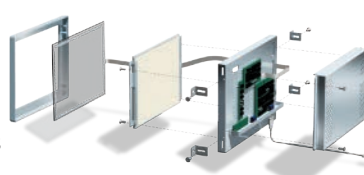
Proflat – professional series



IDP31 Professional Series

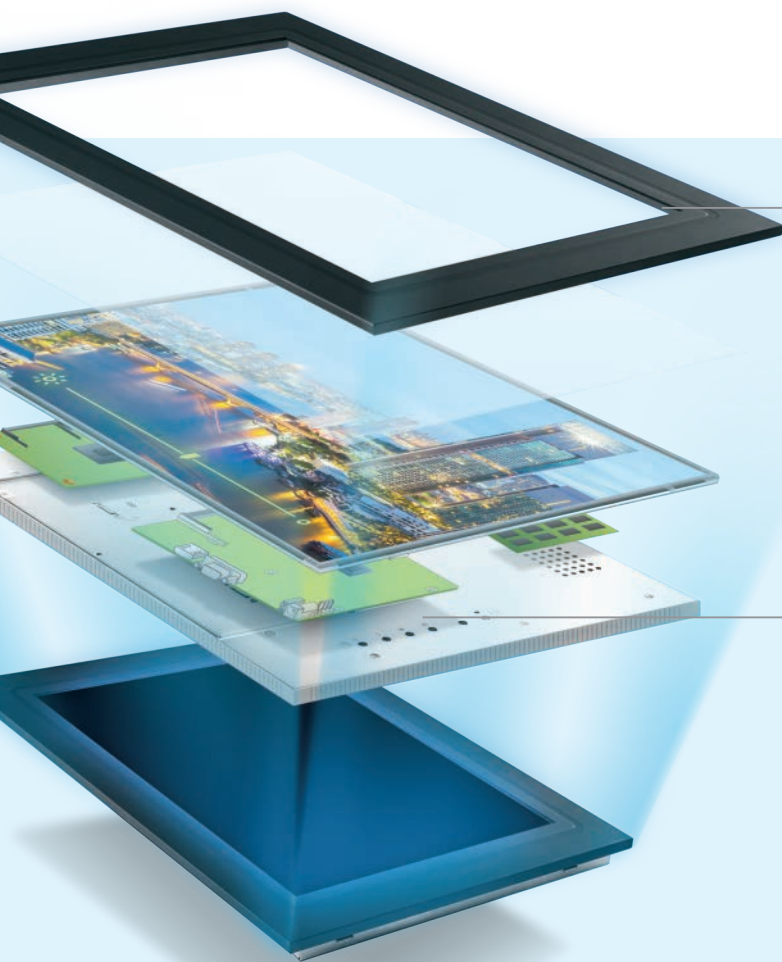
- 10.4" and 21.5" Wide
- 100% flush front contemporary style
- Black or white colour options
- Multi-touch PCT

Configured to order Monitors



IDS-31 Series

- Built-to-order from 6.5" to 65"
- Open and closed frame chassis
- Choice of touch input including multi-touch
- VGA/DVI/HDMI/DP options



Touch & Protection

- All touch technologies
- Decal printing and glass engineering
- Vandal proof solutions
- Multi-touch and gesture control
- En60950 & ik08/ik09



Vandal
Proof



Single/
Multi-touch

Electronic Capability

- Compatible signal cable set
- A/D card design for special function
- DICOM for medical applications
- IoT ready diagnostics
- Data collection at point of display



DICOM



Network Remote
Control



IoT Ready
Diagnostic

Industrial Display Kits

Standard Brightness



IDK-1000 Series

- 5.7"~21.5" size options
- Indoor applications
- LVDS signal interface

Sunlight Readable



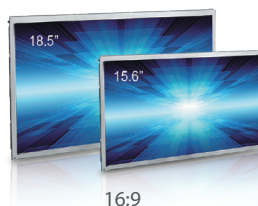
IDK-2000 Series

- 8.4"~21.5" size options
- Outdoor applications
- LVDS signal interface

Industrial Display Modules

IDM Series

- 5.7"~65" size options
- Viewing angle: TN / MVA / IPS
- Operating temperature : -30~85° C
- LVDS signal interface



Industrial Display Systems

IDS-3000 Series

Advantech Ultra Slim Monitor offering includes our Open Frame series -IDS-3100, and Panel Mount series -IDS-3200 series, providing 6.5" ~ 21.5" industrial grade monitors with ultra slim and light design. The open front bezel architecture enables flexible and customized face plates for easy re-engineering and they are ideal for any embedded applications. The panel mount design saves design effort for front frames, and the integrated brackets on the chassis edges make installation easier and more efficient.

Product Portfolio

IDS-3100 Series Slim Open Frame Monitors



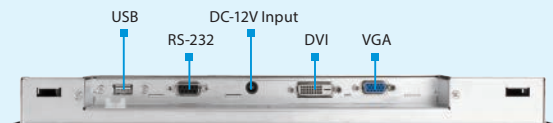
- 6.5"~21.5" wide size options
- Dual VGA/DVI Interface
- Integrated bracket
- Optional touchscreen: P-cap, resistive, non-touch
- Rear/VESA mount support

IDS-3200 Series Panel Mount Monitors



- 6.5"~21.5" wide size options
- Dual VGA/DVI Interface
- Rugged metal front frame
- Optional touchscreen: P-cap, resistive, non-touch
- Front/VESA mount support

Standard Version



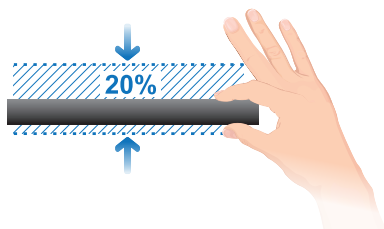
- DVI/VGA signal interface
- -20~60°C wide operating temperature
- Combo touch interface of USB and RS232

Economical Version



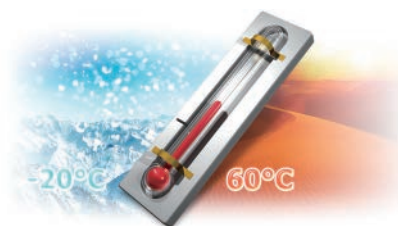
- VGA signal interface
- 0~45°C wide operating temperature
- Combo touch interface of USB and RS232

Key Features



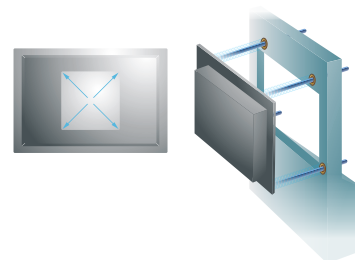
Slim and Light Design

Saving 20% installation space



Wide Operating Temperature

-20~60 wide temperature support



Flexible Mounting support

Rear/Panel/VESA(75x75&100x100 mm) mounting support

Ultra Slim Modular Panel PC for Medical Device

Surface area and pore size distribution analyzers offer a complete solution for characterizing the surface of solid materials and utilizing the well-established gas adsorption technique to measure the surface area and porosity of solids. They are widely used in the medical field and provide single and multi-point surface area analysis, and multi-gas and full adsorption capability.



Application Requirement

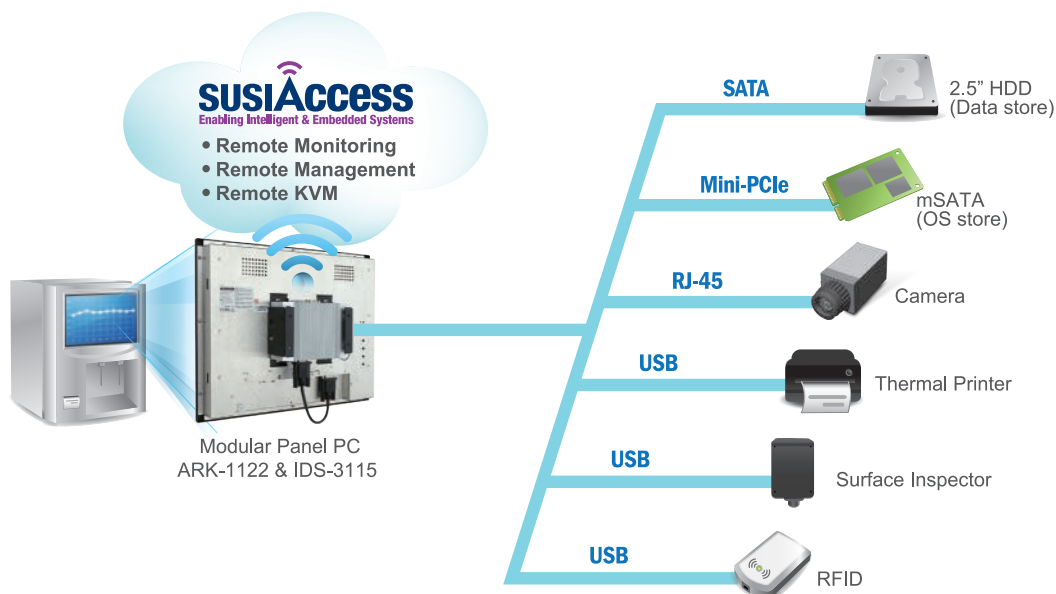
A surface area and pore size distribution analyzer needs to be a complete solution for reliable long term use. It needs to have a high MTBF and longevity support to ensure a long product life time, and an interactive interface is necessary to provide accurate control and ease of operation. And lastly, an embedded fanless system with an integrated display assembled in a compact chassis is needed for rock-solid installation and space saving.

System Solutions

Advantech provided this customer with an ultra slim modular panel PC solution which included ARK-1122, a slim, and energy-saving embedded fanless system and IDS-3115, a 15" open frame touch monitor powered with an Intel Atom N2600 processor. The 15" XGA modular panel PC features a 5-wire resistive touch screen which enables reliable operation and assured durability of 10 million touches. This combination fulfilled both computing and display needs and allowed the customer to build their system with flexibility in mind. Coming with an integrated kit, tailor-made cables, and VESA mounting bracket, the customer could easily integrate our solution into their application with a highly efficient cabling arrangement. Moreover, the modular panel PC is 30 mm thinner than the average panel and is therefore highly suitable for installation and space saving.

Benefits

- Off the shelf modularized panel PC solution, for easy and reliable implementation
- Open frame architecture for customized face plate
- 5-wire resistive touch solution provides quicker touch response
- Ready-to-use software platform remotely manages devices in a simple yet powerful way




Configurable Industrial Monitors


IDS31 Series

Advantech IDS31 series is a fully configurable display solution available in a range of screen sizes that enables you to specify different touch technologies and user options from high brightness to video inputs, including DisplayPort. Choose from a variety of compact mechanical constructions for complete flexibility in product design. High quality industrial grade components ensure durability and meet the demands of the industrial market, supported by 100% product burn-in and service back up of our global services.

Select from 6.5" to 65" In either open or closed frame chassis

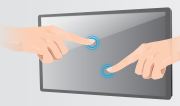


Open-frame steel chassis




Black closed-frame chassis


Add optional protection glass or touch input




Multi-touch PCT



Vandal-proof 6mm SAW




Rugged 5-wire Resistive




Light & Sensitive Surface Capacitive


Chose I/O type(s) & network management




VGA/DVI




VGA/DVI + network management



VGA/DVI/HDMI



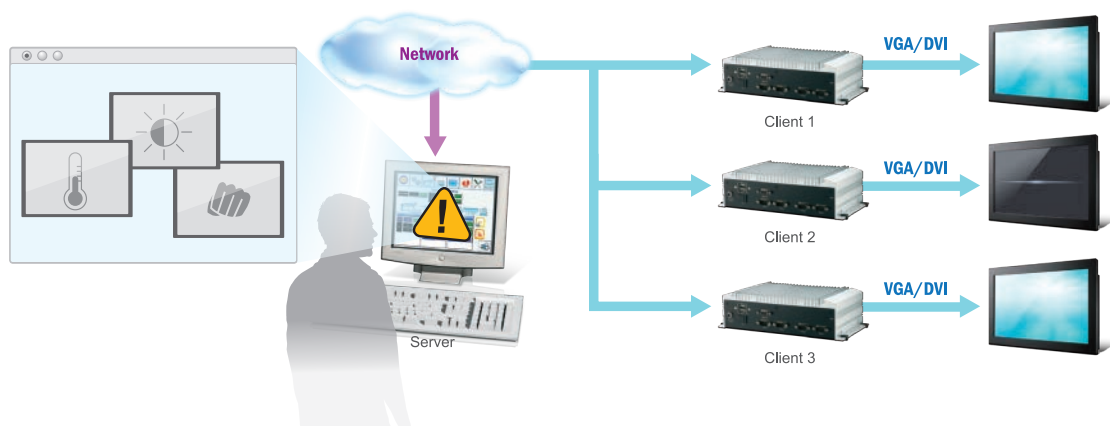
VGA/DP



Size	6.5" ~ 65"
Brightness	200 ~ 2,000 nits
I/O options	VGA+DVI / VGA+DVI+HDMI+Audio / DisplayPort+VGA / M2Talk+VGA+DVI
Touch options	Anti Vandal Cover Glass / Surface Capacitive / Projected Capacitive / Infra-Red / Analogue Resistive / Surface Acoustic Wave
Networking remote control option M2Talk	

M2Talk Intelligent Management Solution

Advantech has developed an intelligent display remote control and diagnostic system that enhances product lifetime and decreases service costs without the need for additional wiring. It contains optional network management embedded in each monitor, which allowing remote control (backlight, on/off, etc.) and diagnostics (temp, shock, power, etc.) across the existing video link.



Perfect Fit Vending Display Solution

Like many products that need to integrate into their environment, in-store vending requires a maximum display area that can be optimised to meet the available space. In developing a new automated vending solution the client needed to meet several different mechanical sizes with consistent drive, control and other engineering features for easy implementation.



Requirement

In order to perfectly present product images, high resolution displays with wide viewing angles for maximizing audience impact are crucial for vending machine applications. Additionally, flexibility for VGA/DVI/HDMI options, and compatibility with other embedded computing platforms were also emphasized by the customer. Furthermore, a low profile appearance with different sized open frame options which helped the customer ramp-up production quicker.

Solutions

Advantech deployed three different size monitors for this application enabling the customer to sell its vending product to the widest variety of retailers including corner shops, convenience stores and supermarkets. IDS31-215W, IDS31-230W and IDS31-320W implemented in a paired configuration exceeded the mechanical and optical requirements, optimising the limited space that was available in the various formats. The units all had a VGA/DVI input and a common 12V DC power supply. The integrated VESA standard scalar A/D card meant no further software development was required for common imaging.

Benefits

- Integrated high quality A/D card with VGA/ DVI/HDMI and FHD capability
- 0~50°C wide operating temperature
- 89°/89°/89°/89° viewing angle
- Trouble free - Long service life
- 100% burn-in before delivery
- Rapid delivery using pre-configured options



Ultra Thin Contemporary Monitors

IDP31-ProFlat™

Advantech ProFlat™ series of professional monitors responds to a demand for contemporary styling in demanding applications such as public signage, front of house information, medical and point-of-sale. The slim line monitors feature a flat, easy to clean and maintain glass surface that ensures product longevity. They can be used in either portrait or landscape mode and are cleverly designed so that no additional mechanical parts other than a VESA mount are needed to create a display system. The use of a metal chassis provides a rugged and stable platform to build solutions for the widest range of applications. Optional multi-touch and the choice of either black or white finishes enables further product differentiation.

Product Portfolio



IDP31-104

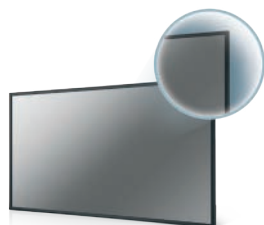
- 10.4" screen size, 80°/80°/60°/70° viewing angle
- VGA/DVI/Audio signal interface
- 0~60°C wide operating temperature
- 2mm multi-touch touchscreen option
- 400 cd/m2 high brightness solution, 700:1 contrast
- 800 x 600 high resolution



IDP31-215

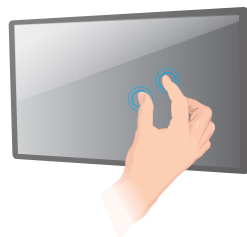
- 21.5" widescreen size, 89°/89°/89°/89° viewing angle
- VGA/DVI/HDMI/Audio signal interface
- 0~60°C wide operating temperature
- 2mm multi-touch PCT touchscreen option
- 250 cd/m2 high brightness solution, 5000:1 contrast
- 1920 x 1080 ultra high resolution

Key Features



Contemporary Style

True flat surface and rounded edges, no need for additional enclosures



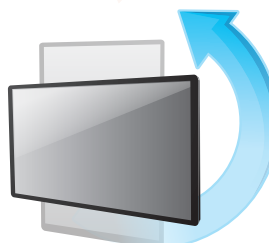
Multi-Touch Options

PCT multi-touch in 2 to 10 point options



Integrated Audio System

Built-in audio and speakers



Flexible Viewing Usage

Wide view-angle for both portrait and landscape mode

100% Flat Fronted Industrial Monitors for Retail POS & Digital Advertising

Digital advertising and point-of-sales displays are widely used in the retail industry as a specialised form of sales promotion. They are intended to raise brand awareness, engage with customers and draw their attention to new arrivals, special offers and promotional events. Due to their accessibility and the potential to deliver a round the clock service to a large audience, there are an increasing numbers of customers looking to provide products and services through digital advertising and POS displays.



Application Requirements

An important aspect of this POS display was that it seamlessly integrated into and complemented the retail space, creating a unique visual promotion of the brand. The display had to operate 24/7; thus maintenance and durability issues were critical in order to maximise uptime. In addition, the display needed a wide viewing angle so it could be easily seen from different locations to have maximum impact, so a flexible solution was a necessity. Last but not least, a sleek enclosure without any brand logo was also required.

Solutions

Advantech IDP31-104 and IDP31-215 ProFlat monitors were used to create the POS displays. With its slim line profile, smooth rounded corners and a 100% flat glass front the IDP31-ProFlat created a contemporary and user-friendly product that matched the customer's specific needs. To differentiate the product a white finish was added and a non-branded chassis ensured the display was a coherent part of the in-store design. A high brightness display offering superb clarity and wide viewing angles ensured the images could be seen from different areas of the store, encouraging audience engagement. The customer also required a long service life to ensure the display was durable enough to operate during and outside store opening hours. Finally, IDP31-ProFlat worked perfectly in both portrait and landscape modes, offering excellent viewing solutions for customers.

Benefits

- 0~60°C operating temperature supports semi-outdoor and outdoor applications
- 89°/89°/89°/89° wide viewing angle for audience engagement
- 100% flat fronted touch and non-touch industrial grade monitors, offering contemporary presentation
- Non-brand product to allow differentiation



Digital Signage Displays

DSD Series

Advantech Digital Signage Display series is designed especially for digital signage applications. Our large-format, professional displays are not only attractive, but rugged enough to withstand the constant interactivity inherent in public access venues. Moreover, our digital signage displays can be easily integrated with Advantech ARK-DS series, providing a total solution for digital signage applications. Built to meet all professional applications, Advantech Digital Signage Displays offer a longer life and a richer digital signage experience.

Product Portfolio



DSD-3000 Series

Large Format Signage Displays

- 32", 42", 55" LCD size options
- Optical multi-touch option (Win7 & Win8)
- Wall mount solution (200 x 200 mm, 400 x 200 mm)
- Full HD 1080P high resolution
- Fanless design



DSD-5000 Series

Ultra Widescreen Signage Displays

- 28"(16:3) and 38"(16:4.5) size options
- Perfect for space limited applications
- High resolution and high brightness
- Wall mount solution (200 x 100 mm)
- Fanless design

Recommended Digital Signage Players



DS-060

Ultra Slim Digital Signage Player



DS-570

Graphic Enhanced Digital Signage Player



DS-762

Multi-display Digital Signage Player

Key Features



Easy Installation

Supports wall mount solution



Vertical Image Capability

Supports horizontal/vertical installation



Better Image and Low Power(DSD-5000)

Compared to LED displays, DSD-5000 delivers better resolution and requires 50% less power.

Dynamic Dining Experience with Ultra Wide Displays

There are many sea view restaurants near the San Francisco Bay area which offer a contemporary west coast dining experience. Our customer was looking for a display solution which could be used to feature videos of San Francisco Bay. The views captured in the videos would be the same views of the restaurant the customers see outside. The installation is unique in that it takes a day-long time lapse and then slices it up into multiple shots, compressing the video into a kind of landscape puzzle. Restaurant customers would see all the activities that happen daily in the bay, but as a sort of mash-up so it forces a more conscious consideration of what's being viewed—perfect for this dynamic dining experience.



Application Requirements

Because the display needed to show super wide panoramic images of the landscape, the aspect ratio also needed to be super wide. Moreover, it needed to be high resolution enough to deliver stunning sea views in order to offer the best viewing experience from any angle. What's more, the light-weight and slim design was able to display both portrait and horizontal modes.

System Solutions

Advantech DSD-5028 perfectly met the customer's need. The monitor is designed with a 16:3 aspect ratio which can easily display the panoramic seascapes captured outside in the bay. DSD-5028 supports Extended Display Identification Data (EDID) which scales Full HD content to fit into 1920 x 358 resolution automatically without distortion. The outstanding slim and light design also benefited the customer with efficient space saving and installation. The DSD-5028 offers a high brightness of 700nits and a wide viewing angle of 176°(H) / 176°(V) which together guarantees excellent visibility under semi-outdoor conditions from any direction. Its multi-signal interface of VGA and DVI and wall mounting support provided the customer with easy installation and integration with additional box PCs.

Benefits

- Slim and light design with ultra-wide ratio, suitable for limited spaces
- High brightness of 700 nits for semi-outdoor application
- Wall mounting design for easy installation
- Plug and Play solution with dual signal interface of VGA and DVI and 24V power input



Industrial Display Kit

IDK Series

The Advantech industrial display kit series provides 5.7~21.5" industrial grade LCD panels, which are developed specially to work with all Advantech embedded boards. To better serve our customers, Advantech provides two product offerings including IDK-1000 and the ultra-high brightness IDK-2000 series to fulfill different application needs. Advantech also provides flexible customization services as follows: optical enhancement solutions, LVDS cable customization, as well as on-demand technical support and panel repair services.

Product Portfolio



IDK-1000 Series Indoor Display Kit

- 5.7~21.5" options
- 200~450 nits brightness
- Resistive / Projected Capacitive Touch solutions
- LVDS signal interface



IDK-2000 Series Outdoor High Bright Display Kit

- 8.4~21.5" options
- 1200 nits ultra-high brightness
- Resistive / Projected Capacitive Touch solutions
- Optional auto-dimming function
- LVDS signal interface

100% Compatible with Embedded Board

Advantech provides helpful tools for System Integrators to choose seamless display solutions with Advantech embedded boards. A smart selection wizard "Build Your Display". <http://www.advantech.com/buildyourdisplay>

Consolidated LVDS Cable Design

- Support 18~48bits LVDS and backlight control
- Customizable cable length

VBIOS – Ready Setting

- Compatibility testing
- VBIOS customization

Touch Driver Support

- Driver support for various OS - Windows, WinCE, and Linux
- Support USB and RS-232 touch interface

Value-added Solutions



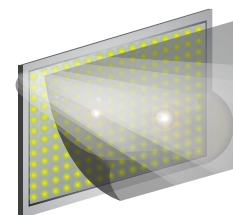
Smart Auto-Dimming

With an auto-sensor on the LED backlight, IDK-2000 can automatically adjust its brightness to ambient light, saving up to 50% energy.



Edge to Edge Touch Solutions

We provide edge to edge solutions both on p-cap and resistive touch screens with surface features such as logo printing, grooves, sliders, and indents.



Flexible Optical Enhancement

- Anti-reflection, anti-glare, anti-IR coating glass and film lamination
- Optical bonding for harsh environments
- Toughened glass for protection

Outdoor Self-service Bicycle Rental System

In order to push energy efficiency and carbon reduction, more and more governments in different countries have built automatic bicycle rental systems and been encouraging its citizens to use non-polluting bicycles for short journeys. As the bicycle rental systems are operated in outdoor environment and 24/7 non-stop, the system would have to be rugged, reliable, accurate and enduring. Advantech IDK-2108 ultra-high brightness panel and MIO-2261 ultra-compact robust single board computer are chosen as part of the solution.



Application Requirements

Several self-service bicycle rental stations needed to be installed in busy outdoor locations which would be exposed directly to sunlight. Therefore, clear visibility under strong sunlight was an essential priority. The stations also had to be able to resist fluctuating temperatures, sometimes extreme, with performance and stability unaffected.

Solutions

To solve sunlight readability issues, Advantech selected the IDK-2110, a 10.4" 1200-nit, high-brightness, industrial display kit able to withstand outdoor environmental conditions. The LCD kit solution gave the customer complete flexibility in integrating the device, and let them focus more on their system design. The IDK-2110's wide temperature operation of $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$ and its low power consumption feature of just 7.1watt made the device ideal for any location. Advantech also sealed a customized edge-to-edge projected capacitive touch screen by optical bounding on IDK-2110. Even though it operates in harsh outdoor environments for long periods, the content of the panel still can be seen clearly. IDK-2110 works perfectly with Advantech's wide temperature single board computer MIO-2261. With compatible LVDS and backlight cables, Advantech provides System Integrators with a highly integrated display solution and a foundation for efficient development.

Benefits

- Wide temperature support: -20°C to 70°C
- 1200 nits ultra-high brightness to enhance readability in sunlight
- Sealed edge-to-edge projected capacitive touch screens on panels by optical bounding
- Protection from moisture, dust and also enhance the transparency.
- Integrated solution with MIO-2261, plus LVDS and backlight cables
- Longevity and 2-year standard warranty support



Industrial Display Modules

More and more different types of panels are offered in the industrial field. However, most of them are not suitable and are quickly phased out. We provide panels specially designed for specific fields such as HMI applications, Kiosk, ATM, POS and more. These panels are also designed for Advantech products which have undergone DQA/QA testing internally. Moreover, the mechanical specs of our Industrial Display Modules are designed for easier integration. For example, our touch solution can be bonded on the surface of Industrial Display Modules with optical bonding. For outdoor applications, they can also have customized light enhancements of over 1000 nits, or have anti-reflection solutions.

Features

- Size options from 10.4" ~ 18.5"
- Industrial grade panel
- MTBF is 50K/hr
- Wide range operating temperature with -30 ~70° C
- 2 years longevity support



Benefits



2-year Extended Warranty

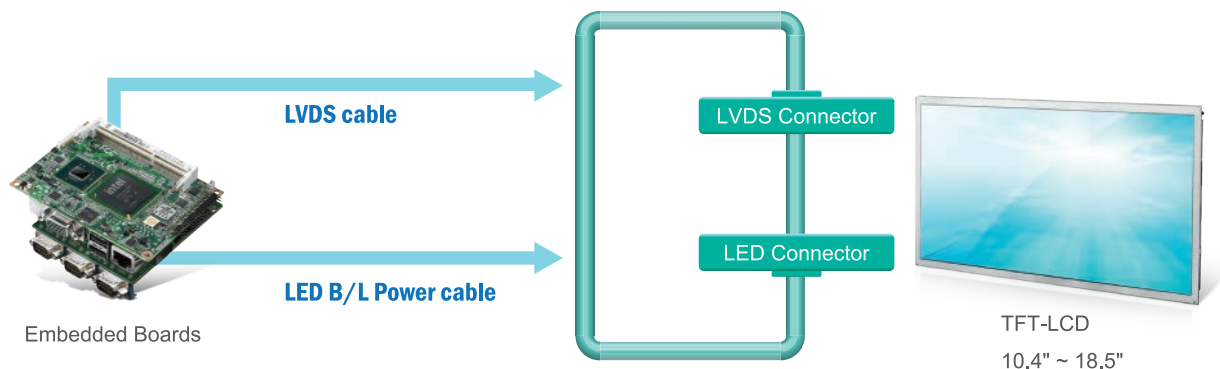


Global RMA Service



Panel Repair Service

Cables Available for Advantech Embedded Boards Integration



Product Selection Guide



4:3 Models

	IDM-1104HN-35XGA1E	IDM-1121HN-50XGA1E	IDM-1150HN-25XGA1E
Size	10.4"	12.1"	15"
Resolution	1024 x 768, XGA	1024 x 768, XGA	1024 x 768, XGA
Brightness	350nits	500nits	250nits
Colors	262K/16.2M	262K/16.2M	262K/16.2M
Viewing Angle (H/V°)	176/176	160/140	160/140
Contrast Ratio	1000:1	700 : 1	700:1
Signal Interface	1 Channel LVDS	1 Channel LVDS	1 Channel LVDS
Backlight Type	LED	LED	LED
Backlight Life (hrs)	30000	30000	50000
Dimensions (mm)	238.6 x 175.8 x 7.5	260.5 x 204 x 7.2	326.5 x 253.5 x 11.5
Weight (g)	280	435	1085
Operating Temperature	-20 ~ 70° C	-30 ~70° C	-30 ~70° C



16:9 Models

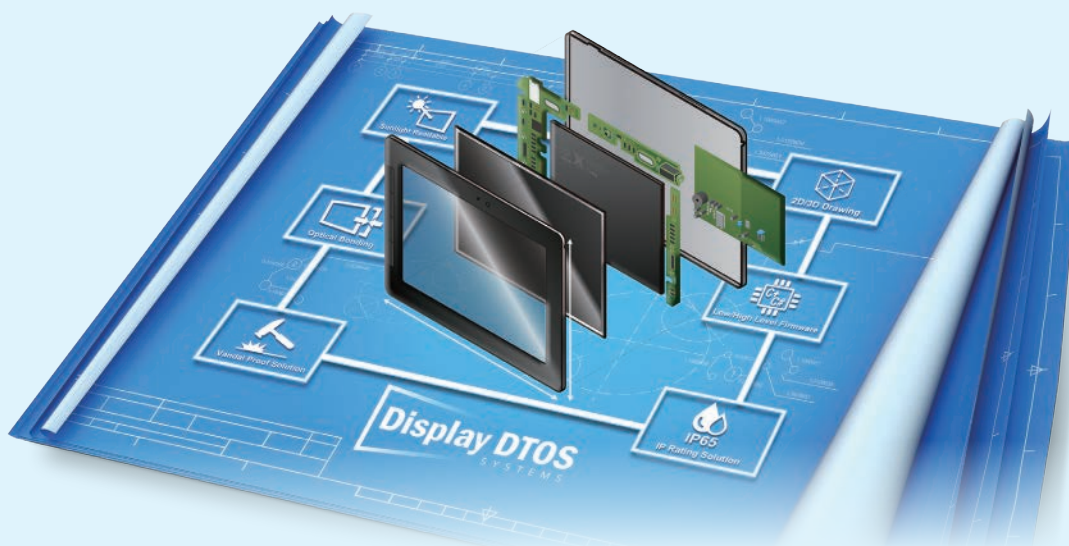
	IDM-1156SN-30HDA1E	IDM-1185SN-30HDA1E
Size	15.6"	18.5"
Resolution	1366 x 768, HD	1366 x 768, HD
Brightness	300	300
Colors	262K/16.7M	16.7M
Viewing Angle (H/V°)	160/160	170/160
Contrast Ratio	500 : 1	1000 : 1
Signal Interface	1 Channel LVDS	1 Channel LVDS
Backlight Type	LED	LED
Backlight Life (hrs)	50000	50000
Dimensions (mm)	363.8 x 215.92 x 16.85	430.37 x 254.6 x 16.1
Weight (g)	1190	1445
Operating Temperature	0 ~ 60° C	0 ~ 60° C

Display Design To Order Service

The Perfect Fit Everytime, Whatever your Application

Display conceptualisation, design and manufacture demands a unique combination of skill sets spanning optical, mechanical, electronic, materials and software engineering. These skills are located close to our customers in order to efficiently translate OEM requirements into cost effective, cleverly engineered solutions for all manor of environments. Our engineers are situated in North America, EU and Asia providing the worlds best multi-disciplined team on your doorstep.

The best multi-disciplined team in the world



Optical Engineering

- Backlight design
- Optical bonding
- Brightness enhancement
- Thermal control

Mechanical & Material Engineering

- Chassis, glass, polymers, adhesives, light-guides
- Curved, vandal proof, IP rated
- EN60950 and IK08/08 drop ball standard

Software and Firmware

- C#, C++, Linux/Windows and beyond
- Low level 8-bit MCU function, drivers and custom protocols
- Universal Display Toolkit (UDT)

System Integration

- X86/RISC platforms, 8/16-bit micro, wireless and more
- Advantech embedded computing power
- Peripheral integration and control

Key Applications

Our teams develop hundreds of new designs each year and are veterans of many demanding applications such as:



Transportation



Medical Ultrasonic



Drive Thru



Vending Machine

- Industrial controls
- Medical / Pharmaceutical
- Point of Sale

- Transportation (train, road, rail, etc)
- Vending machines

- Gaming
- Digital Signage
- Outdoor Public Information

- Ticketing
- Quick service restaurants (QSR)

Triptic™ : Simplified upgrade for UHD gaming

Many gaming companies are constantly seeking to transform and update their cabinets to attract customer loyalty and engagement. The recent trend to larger, portrait enabled screens normally would demand complete game re-write and re-qualification in order to take advantage of such screens. This is both costly and time consuming, placing such challenges outside many companies resources.



Application Requirements

Our challenge was to replace three individual screens with different resolutions and content and combine them on a single, large, curved 42" UHD screen (4kx2k resolution). This would need constructing with a multi-touch rugged overlay, allowing for enhanced user engagement. The solution should be quick to market, cost effective and flexible to allow for both immediate and future screen combinations.

Solutions

We utilised a powerful UHD scaler with the capability to combine up to 4 separate video sources. Custom firmware on the scaler allowed for us to individually scale each image to fit onto customer defined user "zones" on the target display. Removing redundant components and functions reduced production cost and when combined with the curved Projected Capacitive touch screen (PCAP) this created a rapid and easy to implement face-lift for the customers casino cabinet.

Benefits

- No game re-write needed
- Rapid development timeframe
- Cost effective solution
- Narrow border, multi-touch interface
- Novel curved screen
- Applicable to 2,3 or even 4 screen gaming cabinets
- Can be deployed on 1920x1080 to 4k resolution
- Customisable output zones



Selection Guide

Industrial Display Kit IDK-1000 Series

	IDK-1105	IDK-1107W/ IDK-1107WP	IDK-1108	IDK-1110W	IDK-1110/ IDK-1110P	IDK-1112	IDK-1115/ IDK-1115P	IDK-1119	IDK-1121W
Size	5.7"	7"	8.4"	10.1"	10.4"	12.1"	15"	19"	21.5"
Resolution	640 x 480	1024 x 600; 800 x 480	800 x 600	1024 x 600	800x600 1024x768	800 x 600	1024 x 768	1280 x 1024	1920 x 1080
Brightness	500 cd/m2	500 cd/m2	450 cd/m2	550 cd/m2	400cd/m2 500cd/m2	450 cd/m2	400 cd/m2	350 cd/m2	300 cd/m2
Viewing Angle (H/V°)	140/100	150/145 140/120	160/140	120/140	160/140 176/176	160/140	160/140	170/160	178/178
Contrast Ratio	250 : 1	700:1 600:1	600 : 1	500 : 1	700 : 1 1000:1	700 : 1	700 : 1	1000 : 1	5000 : 1
Touchscreen	4-Wire Resistive Touch	4-Wire Resistive Touch/ PCAP	4-Wire Resistive Touch	4-Wire Resistive Touch	4-Wire Resistive Touch/ PCAP	5-Wire Resistive Touch	5-Wire Resistive Touch/ PCAP	5-Wire Resistive Touch	5-Wire Resistive Touch
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
Backlight Life (hrs)	30,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Durability	1 million touches	1 million touches / 100 million touches	1 million touches	1 million touches	1 million touches / 50 million touches	10 million touches	10 million touches/50 million touches	10 million touches	10 million touches
Operating Temperature	-20 ~ 70° C	-20 ~ 70° C	-10 ~ 60° C	-5 ~ 60° C	-10 ~ 60° C /-20 ~ 70° C	-20 ~ 70° C	-20 ~ 70° C	0 ~ 50° C	0 ~ 60° C

High Brightness Display Kit IDK-2000 Series

	IDK-2108	IDK-2110	IDK-2112	IDK-2115	IDK-2117	IDK-2119	IDK-2121
Size	8.4"	10.4"	12.1"	15"	17"	19"	21.5"
Resolution	800 x 600	800x600 1024x768	800 x 600	1024 x 768	1280 x 1024	1280 x 1024	1920 x 1080
Brightness	1200 cd/m2	1200 cd/m2 1300 cd/m2	1200 cd/m2	1200 cd/m2	1200 cd/m2	1200 cd/m2	1200 cd/m2
Viewing Angle (H/V°)	160/140	160/130 170/170	160/140	120/140	170/160	170/160	178/178
Contrast Ratio	600 : 1	500 : 1 / 700:1	700 : 1	700 : 1	1000 : 1	1100 : 1	5000 : 1
Touchscreen	4-Wire Resistive Touch	4-Wire Resistive Touch	5-Wire Resistive Touch	5-Wire Resistive Touch	5-Wire Resistive Touch	5-Wire Resistive Touch	5-Wire Resistive Touch
Signal Interface	1 Channel LVDS	1 Channel LVDS	1 Channel LVDS	1 Channel LVDS	2 Channel LVDS	2 Channel LVDS	2 Channel LVDS
Backlight Life (hrs)	50,000	50,000 / 70,000	50,000	50,000	50,000	50,000	50,000
Durability	1 million touches	1 million touches	10 million touches	10 million touches	10 million touches	10 million touches	10 million touches
Operating Temperature	-20 ~ 70° C	-10~60° C	-20 ~ 70° C	-20 ~ 70° C	0 ~ 50° C	0 ~ 50° C	0~55° C

Slim Open Frame/Panel Mount Monitors IDS-3000 Series

	IDS-3106/ IDS-3206	IDS-3110/ IDS-3210	IDS-3112/ IDS-3212	IDS-3115/ IDS-3215	IDS-3117/ IDS-3217	IDS-3118W	IDS-3119/ IDS-3219	IDS-3121/ IDS-3221
Size	6.5"	10.4"	12.1"	15"	17"	18.5"	19"	21.5"
Resolution	640 x 480	800 x 600	800 x 600 1024 x 768	1024 x 768	1280 x 1024	1366 x 768	1280 x 1024	1920 x 1080
Brightness	800 cd/m2	400 cd/m2	450 cd/m2 600 cd/m2	400 cd/m2 1200 cd/m2	350 cd/m2	300 cd/m2	350 cd/m2	250 cd/m2
Viewing Angle (H/V°)	160/140	160/140	160/140	160/140	170/160	170/160	170/160	178/178
Contrast Ratio	600 : 1	700 : 1	700 : 1	700 : 1	800 : 1	1000:1	1000:1	1000:1
Touchscreen	4-Wire Resistive	5-Wire Resistive	5-Wire Resistive	5-Wire Resistive and PCAP	5-Wire Resistive	5-Wire Resistive and PCAP	5-Wire Resistive	5-Wire Resistive and PCAP
Backlight Life (hrs)	50,000	50,000	50,000	50,000	50,000	50,000	50,000	30,000
Durability	1 million touches	36 million touches	10 million touches	50 million touches	10 million touches	50 million touches	10 million touches	10 million touches
Operating Temperature	0 ~ 50° C	- 20 ~ 60° C	- 20 ~ 60° C	- 20 ~ 60° C	- 20 ~ 60° C	0 ~ 55° C	0 ~ 45° C	0 ~ 45° C

Ultra Thin Contemporary Monitors IDP31 Series

	IDP31-104	IDP31-190	IDP31-215W
Size	10.4"	19"	21.5" Wide
Resolution	800 x 600	1280 x 1024	1920 x 1080
Brightness	400	350	250
Viewing Angle (H/V°)	160 / 130	170 / 160	178 / 178
Contrast Ratio	700 : 1	1000 : 1	5000 : 1
Touchscreen	Projective Capacitive Touch	Projective Capacitive Touch	Projective Capacitive Touch
Signal Interface	1 Channel LVDS	2 Channel LVDS	2 Channel LVDS
Backlight Life (hrs)	50,000	50,000	30,000
Durability	10 million touches	10 million touches	10 million touches
Operating Temperature	0 ~ +60°C	0 ~ +60°C	0 ~ +60°C

Configurable Industrial Monitors IDS31 Series

	IDS31-070W	IDS31-104	IDS31-156W	IDS31-185W	IDS31-190	IDS31-215W	IDS31-230W	IDS31-320W
Size	7" Wide	10.4"	15.6" Wide	18.5" Wide	19"	21.5" Wide	23" Wide 32"	32" Wide
Resolution	800 x 480	800 x 600	1366 x 768	1366 x 768	1280 x 1024	1920 x 1080	1920 x 1080	1920 x 1080
Brightness	400	230	300	300	350	250	300	350
Viewing Angle (H/V°)	160/140	120/100	170/160	170/160	170/160	178/178	178/178	178/178
Contrast Ratio	500 : 1	500 : 1	500 : 1	1000 : 1	1000 : 1	5000 : 1	1000 : 1	1000 : 1
Touchscreen	5-Wire Resistive	5-Wire Resistive	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive	Surface / Projected Capacitive
Signal Interface	VGA/DVI	VGA/DVI	VGA/DVI	VGA/DVI	VGA/DVI	VGA/DVI	VGA/DVI	VGA/DVI
Backlight Life (hrs)	50,000	30,000	50,000	50,000	50,000	30,000	30,000	50,000
Operating Temperature	0 ~ +50° C	0 ~ +50° C	0 ~ +50° C	0 ~ +50° C	0 ~ +50° C	0 ~ +50° C	0 ~ +50° C	0 ~ +50° C

Digital Signage Displays DSD-3000/5000 Series

	DSD-3032	DSD-3042	DSD-3055	DSD-5028	DSD-5038
Size	32"	42"	55"	28"	38"
Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 358	1920 x 538
Brightness	350	500	450	700	800
Viewing Angle (H/V°)	178/178	178/178	178/178	178/178	176/176
Contrast Ratio	3000:1	4000:1	4000:1	3000:1	4000:1
Touchscreen	Optical Touch	Optical Touch	Optical Touch	N/A	N/A
Signal Interface	HDMI / VGA / DisplayPort	HDMI / VGA / DisplayPort	HDMI/VGA / DisplayPort	VGA / DVI	VGA / DVI
Backlight Life (hrs)	50,000	50,000	50,000	50,000	50,000
Durability	10 million touches	10 million touches	10 million touches	N/A	N/A
Operating Temperature	5 ~ 45° C	5 ~ 45° C	5 ~ 45° C	0 ~ 45° C	0 ~ 45° C

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