

Industrial Display Solutions

Leading Industrial Display Expert

- ✓ Leading Technology and Capability
- ✓ Product Offerings
- ✓ Design To Order Services
- ✓ Market Solutions
- ✓ Product Selection



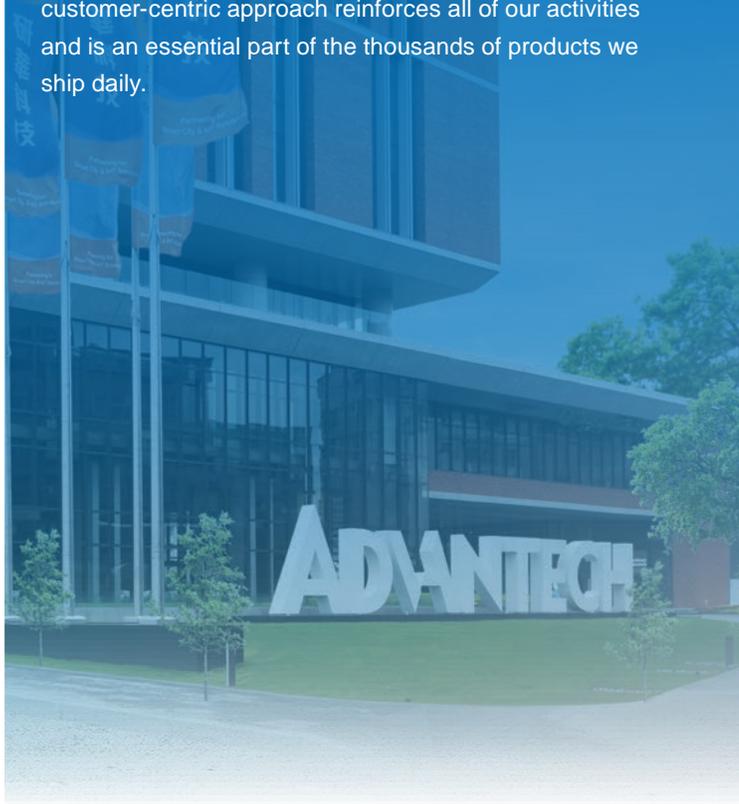
ADVANTECH

Enabling an Intelligent Planet

www.advantech.com

Advantech Industrial Display Advantages

Advantech designs, develops, and manufactures display systems that meet the demands of various global system integration markets—these include gaming, transportation, and medical markets. By combining proven technologies and flexible manufacturing, Advantech creates class leading solutions that deliver significant product differentiation and competitive advantages. Our customer-centric approach reinforces all of our activities and is an essential part of the thousands of products we ship daily.



Pioneering Industrial Display Technologies

Advantech is dedicated to developing industry-leading display technologies. We are a pioneer in optical enhancement solutions including high brightness optical bonding, curved play solutions, panel resizing, and wide temperature solutions.



Global Design and Manufacturing Centers



ATMC Taiwan

- 10,000 clean room
- Global design center
- 30K monthly capacity



AASC Milpitas, USA

- 10,000 clean room
- 5K monthly capacity

Global In-house Design and Manufacturing Capabilities

Advantech has built in-house class 1,000/10,000 LCD clean rooms in Taiwan, China, and North America with a monthly capacity of 30,000 units. We offer reliable high-quality industrial display products.

15+ Years of Supplying the Global Industrial Displays Market

Advantech's Industrial Display Solutions team has 15 years of experience building high quality leading edge industrial display products and is dedicated to helping customers adopt the latest technology.



AKMC Kunshan, China

- 1,000 clean room
- 20K monthly capacity



AESC Eindhoven, Netherlands

- 10,000 clean room
- Design to order assembly



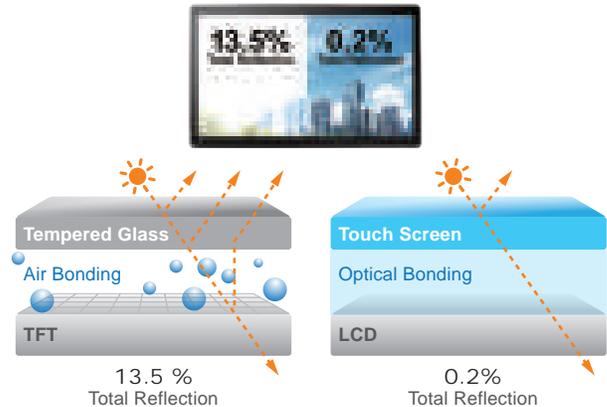
AUK London

- European design center
- Mechanical & electronic design

Leading Technologies

OPTICAL BONDING

Optical bonding technology removes air gaps by injecting optical glue into the space between a cover glass and the LCD panel. This reduces sunlight reflections to improve image quality. Advantech develops both Wet Bond (OCR) and Dry Bond (OCA) technologies with high vibration and impact resistance to enhance LCD readability and durability.



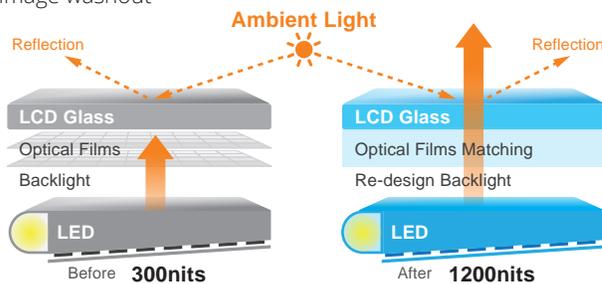
Before

Ambient sunlight causes image washout



After

Sunlight reading issue



HIGH BRIGHTNESS

Using a built-in LED light bar, optical films, and high-efficiency thermal technology, Advantech's solution can boost brightness up to 2000nits. The lowpower backlight source uses 20% less energy than competing products with the same level of brightness. Advantech also offers an excellent automatic dimming solution which can save up to 50% on power consumption.

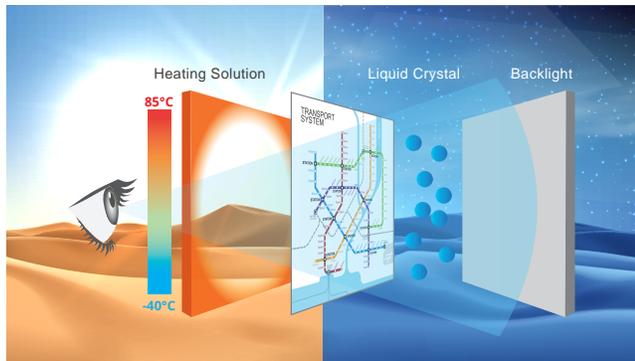
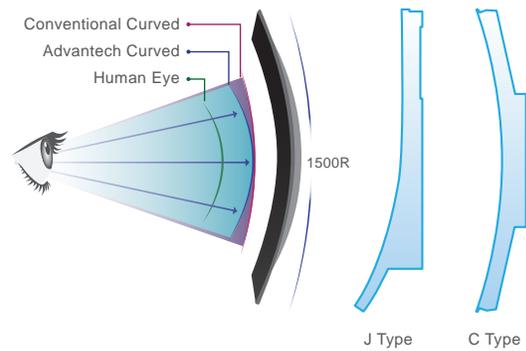
MEDICAL IMAGING

Advantech's solutions include IPS displays and AD boards with color management functionality to help improve brightness stability, gray scale, color temperature, and color gamut to ensure uniformity. Our solution is fully compliant with the DICOM part 14 standards. It also incorporates WiseAgent, a Network Remote Diagnostics Tool for remote control and monitoring.



CURVED DISPLAY

Advantech curved display technology is available with concave or convex surfaces including 1500R or 1200R. Packaged together with an industrial grade video card and power supply, our solution is available with standard video inputs and can be specified with or without a 10-point touch overlay. Advantech also provides open frame monitors and panel module products to support different application needs.



WIDE TEMPERATURE

Advantech Thermal Impedance Solution uses a heating film and a built-in intelligent AD board for auto on/off control. This allows the LCD display to raise the temperature to accommodate different working environments. It can also turn the heating film/glass on or off automatically to save energy.

LCD RESIZING

Advantech's stretched display panel is cut by 1/2 from a 42" LCD to a 38" stretched LCD, or by 1/3, from a 32" panel to a 28" stretched LCD. Both cut panels retain full functionality and performance. Advantech provides a customized panel resizing service to fulfill customers' requirements.

Resolution 1920 x 1080 (FHD)



Resolution 1920 x 1080 (FHD)

Industrial Touch LCD Kit

The Advantech industrial LCD Kit series provides industrial grade touch LCD panels integrated with resistive touch screens, projective touch screens, and compatible AD board kit solutions. Advantech's LCD kit series is fully compatible with all Advantech's embedded boards and features LVDS and backlight cables options, ready VBIOS, and touch driver support.

IDK-1000 Indoor LCD Kit

The Advantech IDK-1000 series features industrial grade touch LCD panels with integrated resistive or projected capacitive touch screens. This series supports 250~500nits brightness and is ideal for indoor applications.

Key Features



DICOM model available



5.7"~21.5"



LVDS interface



Resistive/PCAP touchscreen



IDK-2000 Outdoor LCD Kit

Advantech IDK-2000 series delivers 1200nits sunlight readable LCD panels perfect for outdoor applications. Touch screen options include resistive touch and projected capacitive touch.

Key Features



Sunlight readable



8.4"~21.5"



LVDS interface



Resistive Touch



Industrial Touch Monitor

Advantech provides comprehensive monitor solutions with different front frame chassis options. Customers can make choices based on their integration needs. All of Advantech's industrial grade monitors feature slim and light designs for easy and efficient installation.

IDS-3100 Open Frame Monitor

Advantech Open Frame Monitor IDS-3000 series delivers touch screen monitors with a slim open-front frame design. This series and supports rear and VESA mounting using an integrated bracket design for easy installation.

Key Features



6.5"~27"



Wide temperature



Resistive/PCAP touchscreen



VESA mount
70 x 70 &
100 x 100 mm



IDS-3200 Panel Mount Monitor

Advantech Panel Mount Monitor IDS-3200 series features a rugged metal front frame design. This series supports front and VESA mounting for diverse applications.

Key Features



6.5"~21.5"



Resistive/PCAP touchscreen



VESA mount
70 x 70 &
100 x 100 mm

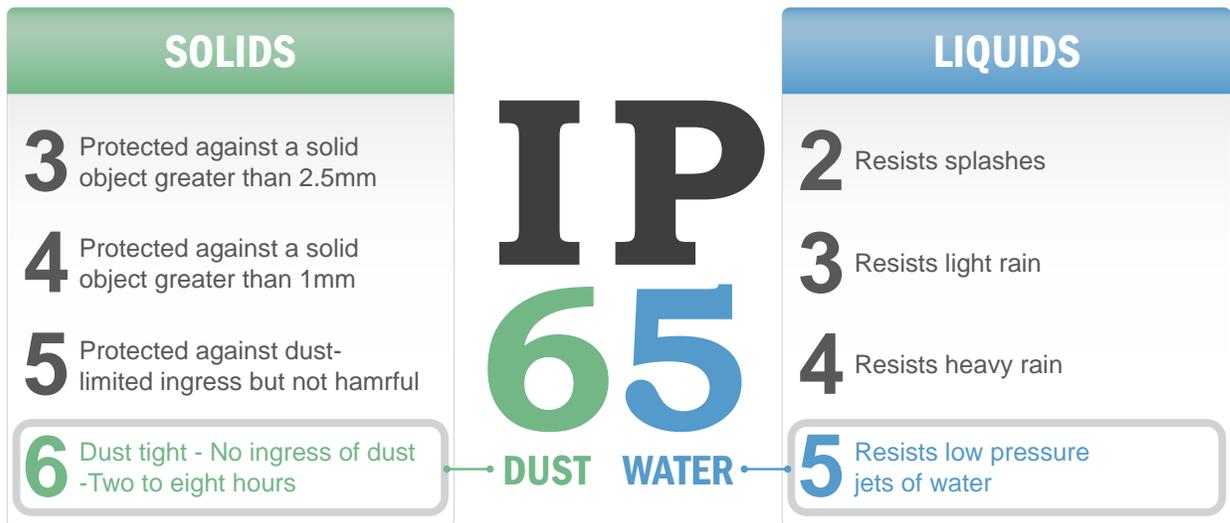


Rugged front frame



Industrial IP65 Monitors

IP65 water and dust proof designs can eliminate downtime in harsh environments by preventing the ingress of particulates and moisture/water. The IP65 rated industrial grade monitor can enable access to production equipment and machines without issues caused by dust and water. An IP rating is defined by two numbers: the first number represents protection from solid objects or materials, and the second represents protection from liquids.



IDS-3300 IP65 Monitors

Advantech IDS-3300 touch screen monitors are designed with an IP65 rated ruggedized front metal frame. They support IP65 water and dust resistance and maintain a compact and narrow bezel design. Our solutions include a full-range of touchscreens including Resistive touch, PCAP touch, and protective glass.

Key Features



15", 19"



IP65 rated front frame



PCAP/resistive/non-touch options



Front/VESA mount



VGA/DVI/HDMI interface



Industrial Full-Flat Monitors

Advantech provides 100% flat glass front touch monitors suitable for medical, point-of-sale/information applications and more. The flat monitors allow easy cleaning and maintenance with metal chassis design which enables a rugged and stable platform for the widest range of applications.

IDP31 Proflat Monitors

IDP31 ProFlat bezel-less industrial touch monitors feature a 100% flat IP54 rated front screen for easy maintenance and are equipped with a projected capacitive touch screen which supports up to 10 points.

Key Features



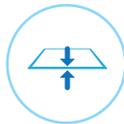
15", 15.6",
21.5"



Multi-touch



Audio solution



Bezel-less



VGA/DVI/HDMI
interface



VUE-2000 Full-Flat Monitors

The VUE-2000 series features PCAP touch with glove functionality and CS10V capability for noise defense. It utilizes a vibration resistant IK07 and IK08 ruggedized design. VUE-2000 supports built-in VGA/HDMI/DVI/DP/USB 3.0 ports in one AD board.

Key Features



10.1", 15.6",
23.8"



Multiple I/O



Easy integration
with box PC/
peripherals



High-endurance
touchscreen



Full-flat & water-
proof design



Digital Signage Solutions

Advantech provides a standalone plug-and-play display for digital signage solutions. This signage display enables professional-grade image quality with optional interactive touch. It supports resolutions ranging from Full HD to 4K UHD. To fulfill the multiple connection requests of signage systems, it supports signal interfaces for HDMI, Display Port, and SDM interface.

DSD-3000/5000/7000

Advantech signage display DSD-3000 series supports wide format Full HD high resolution. The DSD-5000 series supports 16:3 super wide screen ratio which suits limited space requirements. The DSD-7000 series utilizes SDM interfaces to sustain signage system connections.



Key Features



28"~55"



Super wide ratio of 16:3



High resolution



Portrait/landscape mode



Multiple signal interface



VUE-5000 Industrial Digital Signage

The VUE-5000 series includes non-touch, PCAP touch, and IR touch solutions. It features high image quality with IPS, an elegant design with narrow bezel, and accepts 90 ~ 144VDC power input based on AC power design.



Key Features



55" & 86"



FHD & UHD



Portrait/landscape mode



Operating time



Embedded cooling system



Curved Multi-touch Displays

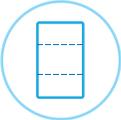
This range of shaped monitors heralds the arrival of bold and daring designs for industrial displays. Available in C or J styles, the curved display series is built with a durable industrial grade standard. They use long life parts and tempered vandal proof glass. The fully flush finish makes the units easier to clean.



CRV J Type Series

Advantech J-Sharped curved displays are designed with curvature radius of 1500R and could be customized to different radius, such like 1200R. The curved design from 1/2 height is to provide the ideal and immersive display experience.

Key Features

-  High resolution UHD
-  PBP/PIP support
-  Multi-touch
-  Thermal solution
-  Wide viewing angle

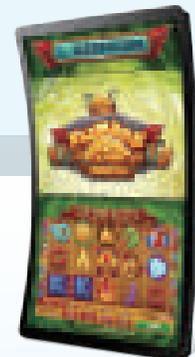


CRV C Type Series

Advantech C-shaped curve displays are available in size 13", 27", 43" and 55". These displays have different radius designs like R1500, R1200 and R600. The different radius design improves the viewing experience of the end user.

Key Features

-  High resolution
-  Multi-touch
-  Radius of 600R (13")
-  Thermal solution
-  Wide viewing angle



Application Stories

Professional Digital Mixer with Fast, Sunlight Readable User Interface



A professional digital mixing console requires a graphical user interface to enable music producers or DJs to operate correctly and efficiently. The screen surface needs to endure regular cleaning, making ease of cleaning and scratch sensitivity important. Mixers are often used in indoor and outdoor events necessitating screens which are readable in any ambient lighting condition.

Solution

Advantech's IDK-2121W is a 21.5" FHD resolution panel solution features a high brightness design of 1200nits and optical bonding solution with integrated projective capacitive touch. This high brightness optical bonding solution enables excellent visual performance and durability in outdoor environments. The projective capacitive multi-touch solution facilitates smooth operation and excellent responsiveness.

Benefit

- Readable in sunlight
- 10-point touch
- High contrast image quality

Products Implemented



IDK-2121W



Optical bonding



Multi-touch

Streamlining Warehouse Picking Systems with Highly-Accurate, Quick-Response Interfaces



Warehouse keepers need picking systems which conduct fast-moving and complex processes efficiently. Advantech's customer is a famous Asian delivery service company. They were launching a new picking system capable of handling thousands of shipments within an hour. The picking system needed to provide an interface with fast response and accurate touch operation.

Solution

Advantech IDS-3215P monitor met our customer's requirements perfectly. The 15" rugged panel mount monitor integrated with a projective capacitive touch solution ensured quick response times and smooth operation. The backlight brightness of 500 nits facilitated excellent image performance in indoor environments. The panel mount design utilized a metal front bezel that simplified integration within kiosk cabinets.

Benefit

- Ruggedized panel mount design
- Projective capacitive multi-touch solution
- High brightness of 500nits for indoor environment

Products Implemented



IDS-3215P



Multi-touch



Rugged front frame

Advantech Displays Shine On Outdoor Self-Service Parking Kiosk



Outdoor parking is vital for smart cities. Advantech's customer is a leading supplier of intelligent parking management systems. They were launching new outdoor self-service parking kiosks with screens which needed to be readable in strong ambient light. Additionally, their screens required a reliable rugged design able to withstand 24/7 operation.

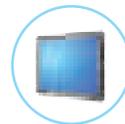
Solution

This customer chose Advantech's IDS-3115P 15" open frame touch monitor. This monitor's integrated projected capacitive touchscreen enables immediate responsiveness and touch-sensitive operation to enhance user experiences. Its 500nits backlight brightness and add-on anti-UV adhesive solution yields optimal visual performance in outdoor environments. Likewise, its long backlight lifetime of 70,000 hours ensures durability and reliability. IDS-3115's open frame architecture was easily integrated into the customer's kiosk cabinet.

Benefit

- Slim bezel design for easy integration
- Anti-UV solutions
- High durability with 70,000 hours of backlight life

Products Implemented



IDS-3115P



Anti-UV solution



Multi-touch

Creating Intelligent Factories with Real-time Command Center Signage



Combining, reviewing, and adapting to real-time information from monitoring stations, production machinery, SCADA-type applications is crucial for effective operations and management efficiency.

Solution

Advantech's command center solution provides efficient evaluation, an intelligent interactive dashboard, and equipment status updates to enable remote monitoring. Advantech's ultra-slim large-format VUE-5000 series features a stable, ruggedized display capable of disseminating information 7 days a week, 18 hours per day. It utilizes intelligent management to keep executives informed in real-time. It also visualizes big data to optimize management efficiency.

Benefit

- Energy efficiency with embedded cooling system
- Landscape/portrait mode support
- 18/7 operation support

Products Implemented



VUE-5550

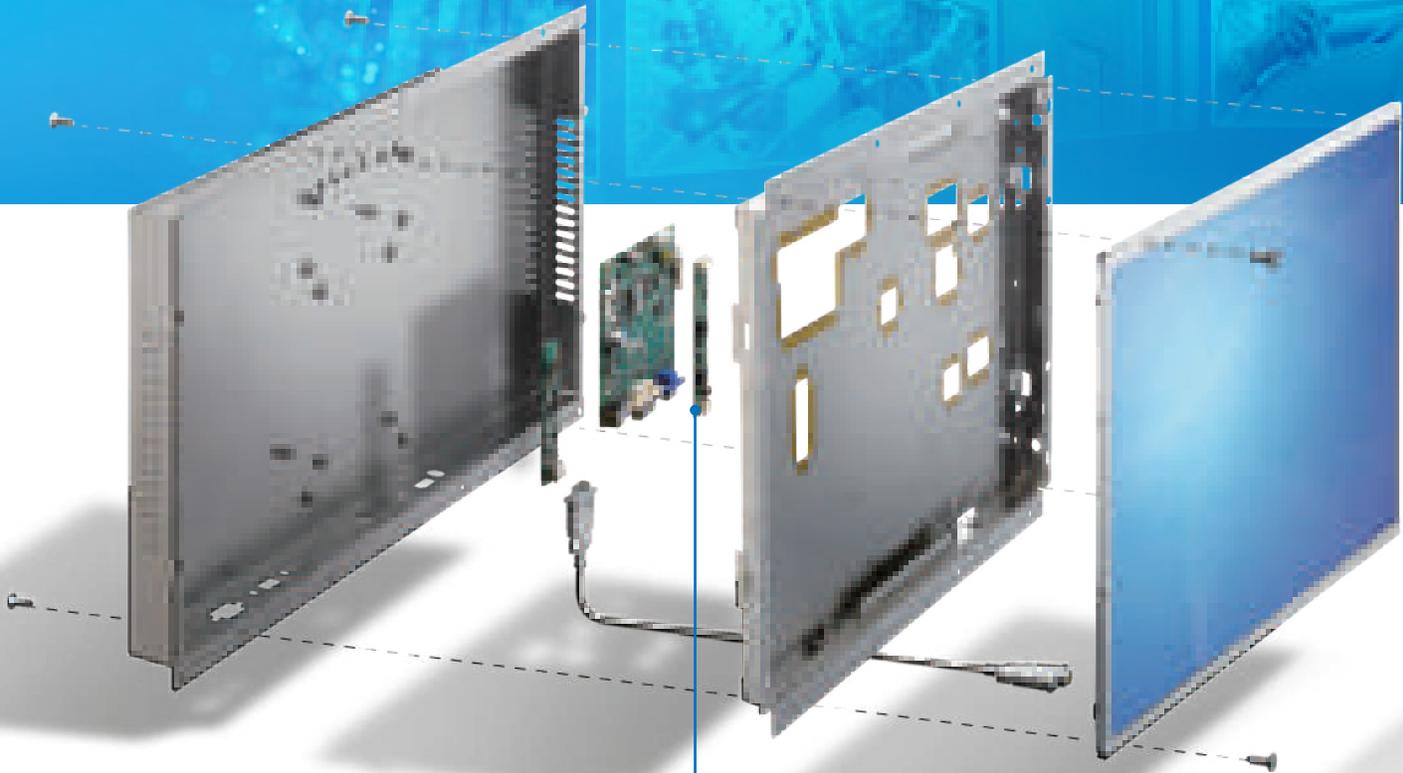


VUE-5860



Portrait/
landscape mode

Design To Order Services



Electronics & Software

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



Large Format, Bright Displays for Passenger Information Signage



Passenger information systems (PIS) provide real-time information to passengers. The bright large format high resolution screens deliver accurate arrival/departure information, news, entertainment, and emergency announcements. They attract passengers' attention and boost sales from advertisements. However, PIS installed on outdoor train platforms need to be sunlight readable and water/dust resistant.

Solution

Advantech combined DSD-3043, a 43" full HD high brightness display with a full IP65 rating mechanical design for this project. The solution's brightness is enhanced to 2000nits, providing better optical performance and visibility under bright sunlight conditions. Likewise, its fanless thermal solution avoids issues of excess heat. The IP65 rated mechanical design provides dust and water resistance ensure operation in harsh environments and can be remote controlled via an Ethernet interface.

DTOS Services

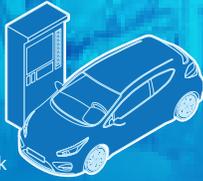
- Ultra high brightness of 2000nits
- Full IP65 rated design
- Ethernet connection for remote control

KEY APPLICATIONS

Advantech develops hundreds of new designs each year. We are highly experienced in the following areas:

Drive Thru

- Quick service kiosk
- Outdoor digital signage



Vending Machine

- Point of sales
- Digital signage



Medical Ultrasonic

- Ultrasound
- Clinical equipment
- Surgical imaging



Transportation

- Ticketing kiosk
- Passenger information signage
- Marine



Optical Enhancements



- High brightness up to 2,000 cd/m²
- Optical bonding
- Anti-reflective coating
- Privacy and polarizing filters

Mechanical Design



- Aluminium/steel/stainless chassis
- Open, closed frame, proflat designs
- Panel cutting
- Optional IP54/IP65 solutions

Touch & Integration



- All touch technologies
- Decal printing
- Vandal proof solutions
- Multi-touch & gesture control

Curved 4K Displays Empower Immersive Gaming Experiences



Advantech's customer is a world leading slot machine manufacturer. They were building a slot machine with a curved design and eye-catching frame lights to improve players' experiences and keep them in their seat longer. This curved slot machine required a rugged touchscreen to ensure consistent revenue generation for operators while avoiding maintenance costs and customer dissatisfaction.

Solution

Advantech provided the CRV-430WP, a 43" curved touch display with 4K UHD high-resolution and integrated 10-point projective touch screen. The display features a 6 mm (.23 in) thick glass cover to prevent vandalism in public areas like gas stations. This solution's re-positioned AD board box and reversed signal connector position aided cabling organization and fit into customer's cabinet design.

DTOS Services

- 43" curved touch display with radius 1500 design
- Projective capacitive touch integrated of 10 touch points
- PBP support with three input sources

Selection Guide

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IDK-1000 Series Indoor Touch LCD Kits

	IDK-1105	IDK-065	IDK-1107W		IDK-1108	IDK-1110W		IDK-1110	
Size	5.7"	6.5"	7"		8.4"	10.1"		10.4"	
Resolution	640 x 480(VGA)	640 x 480(VGA)	800 x 480 (WVGA)	1024 x 600 (WSVGA)	800 x 600 (SVGA)	1024 x 600 (WSVGA)	1280 x 800 (WXGA)	800 x 600 (SVGA)	1024 x 768 (XGA)
Brightness (cd/m ²)	500	800	500	400	450	500	500	400	500
Viewing Angle (H/V°)	140/100	160/140	178/178	150/145	160/140	140/120	170/170	160/130	176/176
Contrast Ratio	250:1	600:1	750:1	700:1	600:1	500:1	800:1	700:1	1000:1
Touchscreen	4-Wire Resistive	4-Wire Resistive	4-Wire Resistive and PCAP	4-Wire Resistive	4-Wire Resistive	4-Wire Resistive	PCAP	4-Wire Resistive	PCAP
Signal Interface	LVDS	LVDS	LVDS	LVDS	LVDS	LVDS	LVDS	LVDS	LVDS
Backlight Life (hrs)	30,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Durability (touches)	1 million	1 million	1/50 million	1 million	1 million	1 million	50 million	1 million	50 million
Operating Temperature (°C)	-20 ~ 70°C	-10 ~ 60°C	-20 ~ 70°C	-20 ~ 70°C	-10 ~ 60°C	-5 ~ 60°C	-20 ~ 65°C	-10 ~ 60°C	-20 ~ 70°C

	IDK-1112		IDK-1115	IDK-1115WP		IDK-1119	IDK-1121W	
Size	12.1"		15"	15.6"		19"	21.5"	
Resolution	800 x 600(SVGA)	1024 x 768(XGA)	1024 x 768(XGA)	1366 x 768(WXGA)	1920 x 1080(FHD)	1280 x 1024(SXGA)	1920 x 1080(FHD)	1920 x 1080(FHD)
Brightness (cd/m ²)	450	500	500	500	450	350	300	250
Viewing Angle (H/V°)	160/140	178/178	178/178	160/150	170/170	170/160	178/178	178/178
Contrast Ratio	700:1	1000:1	2500:1	600:1	800:1	1000:1	5000:1	1000:1
Touchscreen	5-Wire Resistive	5-Wire Resistive and PCAP	5-Wire Resistive and PCAP	PCAP	PCAP	5-Wire Resistive	5-Wire Resistive	PCAP
Signal Interface	LVDS	LVDS	LVDS	LVDS	2 Channel LVDS	2 Channel LVDS	2 Channel LVDS	2 Channel LVDS
Backlight Life (hrs)	50,000	30,000	70,000	50,000	50,000	50,000	50,000	30,000
Durability (touches)	10 million	10/50 million	10/50 million	50 million	50 million	10 million	10 million	50 million
Operating Temperature (°C)	-20 ~ 70°C	-20 ~ 70°C	-20 ~ 70°C	-10 ~ 70°C	-20 ~ 70°C	0 ~ 50°C	0 ~ 60°C	0 ~ 50°C



IDK-2000 Series Outdoor LCD Kits

	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 (SVGA)	800 x 600 (SVGA)	1024 x 768 (XGA)	800 x 600 (SVGA)	1024 x 768 (XGA)	1024 x 768 (XGA)	1280 x 1024 (SXGA)	1280 x 1024 (SXGA)	1920 x 1080 (FHD)
Brightness (cd/m ²)	1200	1200	1200	1200	1200	1200	1200	1200	1200
Viewing Angle (H/V°)	160/140	160/130	170/170	160/140	178/178	178/178	170/160	170/160	178/178
Contrast Ratio	600:1	500:1	700:1	700:1	1000:1	2500:1	1000:1	1000:1	5000:1
Touchscreen	4-Wire Resistive	4-Wire Resistive	4-Wire Resistive	5-Wire Resistive	PCAP	5-Wire Resistive	5-Wire Resistive	5-Wire Resistive	5-Wire Resistive
Signal Interface	LVDS	LVDS	LVDS	LVDS	LVDS	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	50,000
Durability (touches)	1 million	1 million	1 million	10 million	50 million	10 million	10 million	10 million	10 million
Operating Temperature (°C)	-20 ~ 70°C	-10 ~ 60°C	-10 ~ 60°C	-20 ~ 70°C	-20 ~ 70°C	-20 ~ 70°C	0 ~ 55°C	0 ~ 55°C	0 ~ 55°C



IDS-3100/IDS-3200 Series Open Frame/Panel Mount Monitors

	IDS-3106/ IDS-3206	IDS-3110/ IDS-3210	IDS-3112/ IDS-3212	IDS-3115/ IDS-3215	IDS-3117/ IDS-3217	IDS-3118W/ IDS-3218W	IDS-3119/ IDS-3219	IDS-3121W/ IDS-3221	IDS-3127W
Size	6.5"	10.4"	12.1"	15"	17"	18.5"	19"	21.5"	27"
Resolution	640 x 480(VGA)	800 x 600(SVGA) and 1024 x 768(XGA)	800 x 600(SVGA) and 1024 x 768(XGA)	1024 x 768(XGA)	1280 x 1024(SXGA)	1366 x 768(HD)	1280 x 1024(SXGA)	1920 x 1080(FHD)	1920 x 1080(FHD)
Brightness (cd/m ²)	800	400/500	450/600	400/500 1200	350	300	350	250	300
Viewing Angle(H/V°)	160/140	160/140	160/140	160/140	170/160	170/160	170/160	178/178	178/178
Contrast Ratio	600:1	700:1	700:1	700:1	800:1	1000:1	1000:1	1000:1	3000:1
Touchscreen	4-Wire Resistive	5-Wire Resistive and PCAP	5-Wire Resistive and PCAP	5-Wire Resistive and PCAP	5-Wire Resistive	5-Wire Resistive and PCAP	5-Wire Resistive and PCAP	5-Wire Resistive and PCAP	Glass and PCAP
Backlight Life (hrs)	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Durability	1 million touches	10/50 million touches	10/50 million touches	10/50 million touches	10 million touches	10/50 million touches	10/50 million touches	10/50 million touches	50 million touches
Operating Temperature (°C)	0 ~ 50°C	- 20 ~ 60°C	- 20 ~ 60°C	- 20 ~ 60°C	- 20 ~ 60°C	0 ~ 55°C	0 ~ 45°C	0 ~ 45°C	0 ~ 45°C
I/O Ports	VGA x 1; DVI x 1; 12 VDC Jack x 1; USB x 1	VGA x 1; DVI x 1; HDMI x 1(selected models); 12 VDC Jack x 1; USB x 1; RS-232 x 1						VGA x 1; DVI x 1; DP x 1; 12 VDC Jack x 1; USB x 1	
OSD	Keys: Power on/off, Menu/Enter, Left/Up, Right/Down, Exit/Auto, Source Menu Functions: Brightness, Contrast, Screen Setting, Color Temp, OSD Language, VGA/DVI, Reset, Auto Adjust								



IDS-3300 Industrial IP65 Monitors

	IDS-3315	IDS-3319
Size	15"	19"
Resolution	1024 x 768(XGA)	1280 x 1024(SXGA)
Brightness (cd/m ²)	500/1200	350
Viewing Angle (H/V°)	160/140	170/160
Contrast Ratio	2500:1	1000:1
Touchscreen	5-Wire Resistive and PCAP	5-Wire Resistive and PCAP
Backlight Life (hrs)	50,000	50,000
Durability	10/50 million touches	10/50 million touches
Operating Temperature (°C)	- 20 ~ 60°C	0 ~ 45°C
I/O Ports	VGA x 1; DVI x 1; HDMI x 1 12VDC Jack x 1; USB x 1; RS-232 x 1	
OSD	Keys: Power on/off, Menu/Enter, Left/Up, Right/Down, Exit/Auto, Source Menu Functions: Brightness, Contrast, Screen Setting, Color Temp, OSD Language, VGA/DVI, Reset, Auto Adjust	

0100000

11



IDP31 Series Proflat Touch Monitors

	IDP31-150	IDP31-156W	IDP31-215W
Size	15"	15.6"	21.5"
Resolution	1024 x 768(XGA)	1920 x 1080(FHD)	1920 x 1080(FHD)
Brightness (cd/m ²)	500	450	250
Viewing Angle (H/V°)	176/176	170/170	178/178
Contrast Ratio	2500:1	800:1	1000:1
Touchscreen	Projective Capacitive Touch	Projective Capacitive Touch	Projective Capacitive Touch
I/O Ports	HDMI x 1; VGA x 1; DVI-D x 1 Audio x 1 (audio output 3W) 12 VDC Jack x 1; USB x 1	HDMI x 1; VGA x 1; DVI-D x 1 Audio x 1 (audio output 3W) 12 VDC Jack x 1; USB x 1	HDMI x 1; VGA x 1; DVI-D x 1 Audio x 1 (audio output 3W) 12 VDC Jack x 1; USB x 1
Surface Hardness	6H	6H	6H
Backlight Life (hrs)	50,000	50,000	30,000
Operating Temperature (°C)	-20 ~ 60°C	-20 ~ 60°C	0 ~ 40°C
Certification	CE, FCC, CCC	CE, FCC, CCC	CE, FCC, CCC



VUE-2000 Full-flat Touch Monitors

	VUE-2101	VUE-2156	VUE-2238
Size	10.1"	15.6"	23.8"
Resolution	1280 x 800(WXGA)	1920 x 1080(FHD)	1920 x 1080(FHD)
Brightness (cd/m ²)	500	450	350
Viewing Angle (H/V°)	170/170	170/170	178/178
Contrast Ratio	1000:1	800:1	1000:1
Touchscreen	Projective Capacitive Touch	Projective Capacitive Touch	Projective Capacitive Touch
I/O Ports	HDMI x 1, VGA x1, DVI-D x 1, DP x 1, USB 3.0 x 2	HDMI x 1, VGA x 1, DVI-D x 1, DP x 1, USB 3.0 x 2	HDMI x 1, VGA x 1, DVI-D x 1, DP x 1, USB 3.0 x 2
Backlight Life (hrs)	50,000	50,000	50,000
Noise Defense	CS10V	CS10V	CS10V
Operating Temperature (°C)	0 ~ 40°C	0 ~ 40°C	0 ~ 40°C
Certification	CE, FCC, CCC, BSMI, CB	CE, FCC, CCC, BSMI, CB	CE, FCC, CCC, BSMI, CB



VUE-5000 Digital Signage and Video Wall

	VUE-5550-S	VUE-5550-I	VUE-5550-V	VUE-5860
Size	54.6"	54.6"	54.6"	86.0"
Resolution	1920 x 1080(FHD)	1920 x 1080(FHD)	1920 x 1080(FHD)	3840 x 2160(UHD)
Brightness (cd/m ²)	450	450	500	410
Viewing Angle (H/V°)	178/178	178/178	178/178	178/178
Contrast Ratio	1100:1	1100:1	1200:1	1200:1
Touchscreen	N/A	IR 20 point touch	N/A	N/A
Backlight Life (hrs)	60,000	60,000	50,000	50,000
I/O Ports	HDMI x 2, VGA share with DVI x 1, DP x 1	HDMI x 2, VGA share with DVI x 1, DP x 1	HDMI x 2, VGA x 1, DVI x 1, DP x 1	HDMI x 4, VGA x 1, DVI x 1 (output), DP x 1
Operating Temperature (°C)	5~40(Landscape), 5~35(Portrait)	5~40(Landscape), 5~35(Portrait)	5~40(Landscape), 5~35(Portrait)	5~40(Landscape), 5~35(Portrait)
Certification	CE, FCC, CCC, BSMI, CB, UL, KC, PSE, RCM, VCCI	CE, FCC, CCC, BSMI, CB, UL, KC, PSE, RCM, VCCI	CE, FCC, CCC, UL, BSMI, CB	CE, FCC, CCC, BSMI, CB, UL, KC, PSE, RCM, VCCI

DSD-3000/7000 Large Format Digital Signage Displays



	DSD-3032	DSD-3042	DSD-3055	DSD-7000
Size	32"	42"	55"	55"
Resolution	1920 x 1080(FHD)	1920 x 1080(FHD)	1920 x 1080(FHD)	1920 x 1080(FHD)
Brightness (cd/m ²)	350	500	450	500
Viewing Angle (H/V°)	178/178	178/178	178/178	178/178
Contrast Ratio	3000:1	4000:1	4000:1	4000:1
Touchscreen	Optical Touch	Optical Touch	Optical Touch	-
Signal Interface	HDMI/VGA/DisplayPort	HDMI/VGA/DisplayPort	HDMI/VGA/DisplayPort	HDMI/VGA/DisplayPort/SDM slot
Backlight Life (hrs)	50,000	50,000	50,000	50,000
Durability	10 million touches	10 million touches	10 million touches	-
Operating Temperature (°C)	5 ~ 45°C	5 ~ 45°C	5 ~ 45°C	0 ~ 40°C

DSD-5000 Stretched Digital Signage Displays



	DSD-5028	DSD-5038
Size	28"	38"
Resolution	1920 x 358	1920 x 538
Brightness (cd/m ²)	700	800
Viewing Angle (H/V°)	178/178	176/176
Contrast Ratio	3000:1	4000:1
Touchscreen	N/A	N/A
Signal Interface	VGA/DVI	VGA/DVI
Backlight Life (hrs)	50,000	50,000
Durability	N/A	N/A
Operating Temperature (°C)	0 ~ 45°C	0 ~ 45°C

CRV Curved Multi-touch Displays



	CRV-430WP	CRV-430JP
Size	43" C type	43" J type
Resolution	3840 x 2160(UHD)	
Brightness (cd/m ²)	450	
Viewing Angle (H/V°)	178/178	
Contrast Ratio	1100:1	
Curved Radius	1500	
Touchscreen	Projective Capacitive Touch	
Cover Glass	4mm	
Operating Temperature (°C)	0 ~ 50°C	
I/O Ports	HDMI 1.4(1 ports), HDMI 2.0(2 ports), DisplayPort, VGA	

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