IDP31-215W

100% flat fronted touch and non-touch, Industrial grade monitors. Ultra thin profile, smooth rounded corners and rugged glass fronted for a totally contemporary outlook.

NEW

Features

- 21.5" LCD wide screen panel with LED backlight for long service life
- Wide operating temperature -10 to +70° C for broad range of applications
- Regular brightness 250 CD/m²
- True flat surface – contemporary Proflat style
- Wide view-angle for portrait and landscape mode
- Built-in audio and speakers
- Thin profile, enclosure – no need for additional enclosures or metalwork
- Multi-touch PCT touch overlay
- Configurable Options:
  – Brightness 250 CD/m²
  – View angle 89°/89°/89°/89°
  – Mechanical housing
  – VGA, DVI, HDMI interface

FCC CE RoHS COMPLIANT 2002/95/EC

Introduction

The IDP31-215W Proflat series responds to a demand for contemporary styling in demanding applications such as public signage, front of house information, medical and point-of-sale. Each product features a truly-flat, easy to clean and maintain glass surface with long term product availability. All products can be used in either portrait or landscape mode and are cleverly packaged in such a way that no further mechanical parts are needed other than a VESA mount 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 both black or white finish creates further opportunity for those seeking to differentiate their next product design.
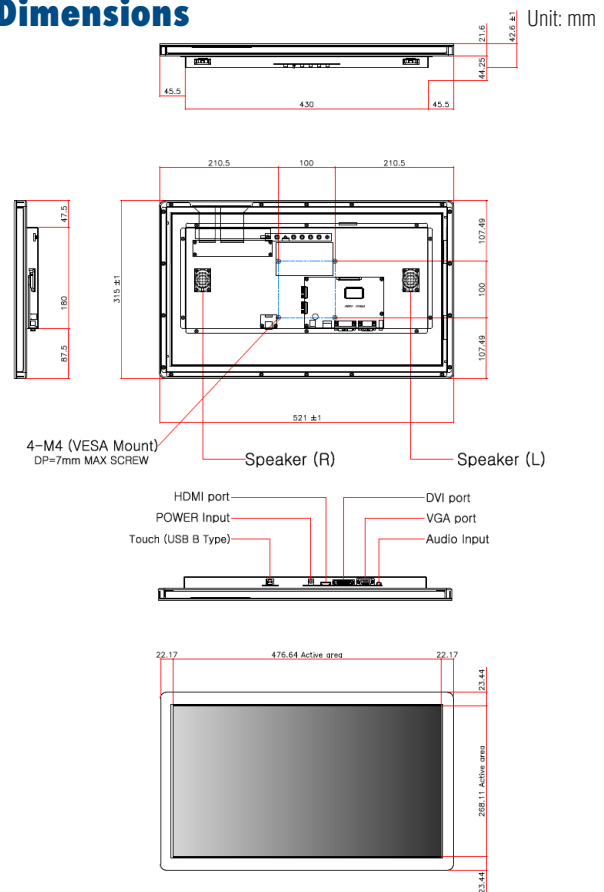
Typical Applications

- Signage and public information
- Way-finder
- Kiosks and point of sale
- Medical
- Digital assistant

Specifications

Display Features	Spec	Notes
Model	IDP31-215W	
Backlight	LED	Light source
Resolution	1920 x 1080	Native resolution. Other resolutions supported by A/D card scaling
Brightness	250 cd/m²	Measured at typical operating voltage
Viewing Angle	89°/89°/89°/89°	Left/Right/Up/Down
Surface Treatment	3H	MoHS/Anti glare
Contrast Ratio	5000:1	In laboratory measurement conditions
Max Colors	16.7M	8 bit per colour
Response Time	16 ms	Typical
Backlight Lifetime	30,000 hours	Typ. time to half brightness in room temperature operation
Cover glass	3mm toughened	
Operating Temp	-10° to +70° C	Industrial use
Touch Screen	10 points PCT	Projected Capacitive overlay (USB)
Input / Output	VGA, DVI, HDMI	Audio output 3W

Dimensions

Unit: mm

4–M4 (VESA Mount)
DP=7mm MAX SCREW

Speaker (R)　Speaker (L)

HDMI port　DVI port
POWER Input　VGA port
Touch (USB B Type)　Audio Input

476.64 Active area

Touch Screen Options

Type 21.5" Wide Screen	Cover glass (CG) ☑	Analogue Resistive (AR) ☐	Surface Acoustic Wave (SAW) ☐	Surface Capacitive (SCAP) ☐	Projected Capacitive (PCT) ☑	Infra-red (IR) ☐	Multi-touch ☑
Construction	3mm heat strengthened glass	ITO film to ITO coated glass	4mm pure glass sensor	Hard coat ITO pure glass	ITO film/film with Chemical strengthened glass	3mm tempered glass with infrared sensor	Either PCT or IR
Surface	7H	3H	7H	<4H	<4H	7H	-
Durability (no of touches)	-	> 1m	>5m	>1m	>1m	>1m	-
IP Rating (potential)	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Touches	0	1	1	1	1/2/10/30	1040g/63.5mm	-
Transparency	93±2%	81%	90±5%	91±1.5%	82%	-	-
Drop Ball	500g / 50cm	227g/38Φ steel ball from 80cm height	1040g / 90cm	UL60950 (Tough touch only)	227g/38Φ steel ball from 80cm height	1040g/63.5mm ball dropped from height of 1.0m	227g/38Φ steel ball from 80cm height
Added thickness (typ.)	4/5/6/10/12mm	1.8mm	6mm	8mm	3/4/5/6m	See drawing	See drawing
Custom Options	AR coating Optical bonding	Optical bonding	Dustproof, Waterproof, Antiglare, Safe touch	Optical bonding, Tough touch	AR coating, Glass painting, Customer logo, 10point touch (21.5",23",24"), Optical bonding	2point, AR coating, Optical bonding	Extended cover glass Back printing Whole cutting

System/Electrical Features

System / Electrical	Spec	Unit / Notes
Power Consumption	19.14W	Typical consumption at standard brightness and temperature
Power Supply	12V / 3.5A	External DC power brick (included) Input voltage-DC +12V +/-5% @ 2.5A max Power connector: DC jack
Video Input (available options)	☑ VGA ☑ DVI ☑ HDMI ☐ COMPOSITE ☐ USB ☐ DisplayPort	Native resolution. Other resolutions supported by A/D card scaling
On-screen Display (OSD)	5- keys Menu Functions	Menu / up / down / enter / Power ON-OFF Brightness, Contrast, Screen Setting, Colour Temp, Language OSD Settings, VGA/DVI, Recall, Auto Adjust
Custom BIOS options		

Mechanical Features

Mechanical	Spec	Notes
Overall size	521 x 315 x 42.6 mm	[proflat]
Active Area Size	476.64 (H) x 268.11 (V) mm	
Case / Bezel color	Black or White power coat	Custom colour and finishes available
Weight	5.0㎏g	Typ .inc touch
VESA Mounting Options:	100 x 100㎜㎝	For User defined mounting requirements contact rep

Environmental Features

Environmental	Spec
Operating Temp	-10 to +70° C
Storage Temp	-30 to +85° C
Humidity	80% RH
Vibration	1.5G, (10~200Hz, P-P) 30 mins/axis (X, Y, Z)
Agency Approvals	CE, FCC, RoHS

Ordering Information

Model Name	Description
IDP31-215WP25HIB1E	21.5" widescreen, Industrial black ProFlat monitor with PCT Multi-touch touchscreen, 250CD/m² brightness, VGA & DVI & HDMI input
IDP31-215WP25HIW1E	21.5" widescreen, Industrial white ProFlat monitor with PCT Multi-touch touchscreen, 250CD/m² brightness, VGA & DVI & HDMI input

Accessory Package

- Power supply (110V-240V), UK/EU/US power cord, VGA cable, DVI cable, USB cable for touch function

All Advantech monitors are configurable to order. Use www.advantech.com for guidance on versions, pricing and deliver for all models

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