

IDP-31150

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

NEW



Features

- 15.0" LCD panel with LED backlight for long service life
- Operating temperature 0 to +40° C ; Storage temperature -20 to +60° C
- Regular brightness 400 CD/m²
- Resolution 1024 x 768
- Contrast ratio 800 : 1
- 80°/80°/80°/80° wide view-angle for portrait and landscape mode
- 10 points projected capacitive touch overlay
- VGA & DVI I/O interface
- No need for additional enclosures or metalwork
- True plug and play without any touch driver needed
- Pure flat surface, contemporary style, and thin profile



Introduction

The IDP-31150 ProFlat monitor responds to a requirement for contemporary styling in demanding applications such as public signage, front of house information, medical and point-of-sale. All IDP-31 series product features a truly-flat, easy to clean and maintain glass surface with long term product availability. Each model can be used in both portrait and landscape mode, also 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. 10 points multi-touch and the choice of either black or white finish create further opportunity for those seeking to differentiate their next product design.

Typical Applications

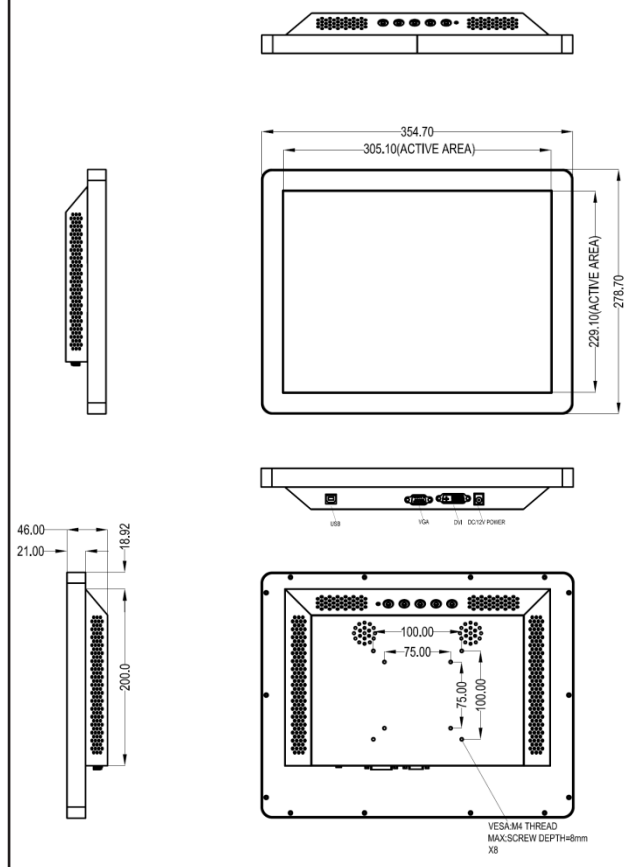
- Signage and public information
- Way-finder
- Kiosks and point of sale
- Medical
- Digital assistant

Specifications

| Display Features | Spec | Notes |
|--------------------|-----------------------|--|
| Model | IDP-31150 | |
| Backlight | LED | Light source |
| Resolution | 1024 x 768 | Native resolution. Other resolutions supported by A/D card scaling |
| Brightness | 400 cd/m ² | Measured at typical operating voltage |
| Viewing Angle | 80°/80°/80°/80° | Left/Right/Up/Down |
| Surface Treatment | 6H | MoHS/Anti-glare |
| Contrast Ratio | 800 : 1 | In laboratory measurement conditions |
| Max Colors | 16.2M | 6/8 bit per colour |
| Response Time | 16ms | Typical |
| Backlight Lifetime | 30,000 hours | Typ. time to half brightness in room temperature operation |
| Cover glass | 2.4±0.3mm | |
| Operating Temp | 0° to +40° C | Industrial use |
| Touch Screen | 10 points PCT | Projected capacitive overlay |
| Input / Output | VGA, DVI | |
| IP Rating | IP51 | Front & Side of the monitor |

Dimensions

Unit: mm



Touch Screen Options

| Type 15.0" Screen | Cover glass (CG) | Analogue Resistive (AR) | Surface Acoustic Wave (SAW) | Surface Capacitive (SCAP) | Projected Capacitive (PCT) | Infra-red (IR) | Multi-touch |
|----------------------------|-------------------------------------|--------------------------------------|--|---------------------------------|---|---|--|
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Construction | 2.4mm 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 | 6H | 3H | 7H | <4H | <4H | 7H | - |
| Durability (no of touches) | - | > 1m | >5m | >1m | >1m | >1m | - |
| IP Rating (potential) | IP51 | IP51 | IP51 | IP51 | IP51 | IP51 | IP51 |
| 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/38Ø steel ball from 80cm height | 1040g / 90cm | UL60950 (Tough touch only) | 227g/38Ø steel ball from 80cm height | 1040g/63.5mm ball dropped from height of 1.0m | 227g/38Ø steel ball from 80cm height |
| Added thickness (typ.) | 3/4/5/6/10/12mm | 1.8mm | 6mm | 8mm | 3/4/5/6mm | See drawing | See drawing |
| Custom Options | AR coating Optical bonding | Optical bonding | Dustproof, Waterproof, Anti-glare, Safe touch | Optical bonding, Tough touch | AR coating, Glass painting, Customer logo, 10points touch (21.5", 23", 24"), Optical bonding | 2points, AR coating, Optical bonding | Extended cover glass Back printing Whole cutting |

System/Electrical Features

| System / Electrical | Spec | Unit / Notes |
|---------------------------------|--|---|
| Power Consumption | 18W | Typical consumption at standard brightness and temperature |
| Power Supply | 12V / 3.5A | External DC power brick (included) Input voltage : +12VDC±5% External Adapter: 100-240 VAC, 50-60 Hz |
| Video Input (available options) | V VGA V DVI HDMI COMPOSIT E 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 |

Mechanical Features

| Mechanical | Spec | Notes |
|------------------------|-------------------------------|--|
| Overall size | 354.7 x 278.7 x 46.0mm | [ProFlat |
| Active Area Size | 305.1 (H) x 229.1 (V) ± 0.3mm | |
| Case / Bezel color | Black or White powder coat | Custom colour and finishes available |
| Weight | 3.49kg | Typ .inc touch |
| VESA Mounting Options: | 75 x 75, 100 x 100mm | For User defined mounting requirements contact rep |

Environmental Features

| Environmental | Spec |
|------------------|--|
| Operating Temp | 0 to +40° C |
| Storage Temp | -20 to +60° C |
| Humidity | 90% RH |
| Vibration | 1.5G, (10~200Hz, P-P) 30 mins/axis (X, Y, Z) |
| Agency Approvals | CE, FCC, RoHS |

Ordering Information

| Model Name | Description |
|--------------------|--|
| IDP-31150-P40DVB1G | 15.0" industrial black ProFlat monitor with 10 points PCT touchscreen, 400 cd/m ² brightness, VGA & DVI 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