

# IDS31-070W

Fully configurable, high-reliability, rugged display solution with choice of brightness, touch and video input 7" Industrial Open Frame Monitor



## Features

- 7" LCD wide screen panel with LED backlight for long service life
- Wide operating temperature 0 ~ +50° C for broad range of applications
- High brightness 400 cd/m<sup>2</sup>
- Mechanical formats : open frame with VESA standard mounting (Optional : closed frame)
- Configurable Options :
  - Brightness 400 cd/m<sup>2</sup>
  - Viewing angle 80°/80°/60°/80°
  - Mechanical housing
  - VGA,DVI (Optional : HDMI or DisplayPort)
- Touch Options (USB and/or RS232 input) :
  - 5-Wire Resistive Touch

## Introduction

The IDS31-070W is a fully configurable, flexible display solution, able to be specified in a variety of screen brightness's, touch technologies and video inputs including displayport. The product can be specified in a number of compact mechanical constructions meeting all mounting demands, delivering complete flexibility in product design. All products have been designed to meet the demands of the industrial market and have leading in service performance characteristics guaranteed by 100% product burn-in and the service back up of the global Advantech corporation.

## Typical Applications

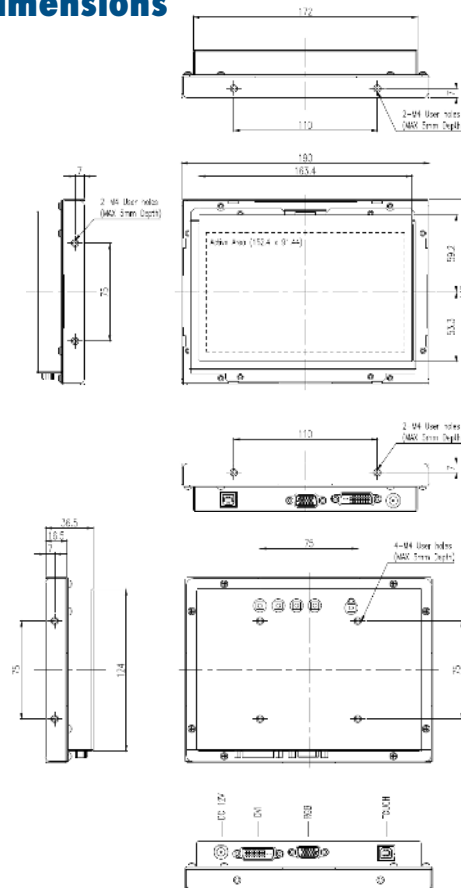
- Casino and gaming
- Industrial controls
- Kiosks and point of sale
- Remote signage and public information
- Transportation

## Specifications

| Display Features   | Spec                  | Notes  |
|--------------------|-----------------------|--|
| Model              | IDS31-070W            |  |
| Backlight          | LED + TN              | Light source   |
| Resolution         | 800 x 480             | Native resolution. Other resolutions supported by A/D card scaling |
| Brightness         | 400 cd/m <sup>2</sup> | Measured at typical operating voltage                              |
| Viewing Angle      | 80°/80°/60°/80°       | Left/Right/Up/Down   |
| Surface Treatment  | 3H                    | MoHS/Anti glare  |
| Contrast Ratio     | 500:1                 | In laboratory measurement conditions                               |
| Max Colors         | 264K/16.2m            | 6/8 bit per colour   |
| Response Time      | 30 ms                 | Typical  |
| Backlight Lifetime | 50,000 hours          | Typ. time to half brightness in room temperature operation         |

## Dimensions

Unit: mm



## Touch Screen Options

| Type                               | Cover glass (CG)                    | Analogue Resistive (AR)              | Surface Acoustic Wave (SAW)                        | Surface Capacitive (SCAP)       | Projected Capacitive (PCT)   | Infra-red (IR)                                | Multi-touch  |
|------------------------------------|-------------------------------------|--------------------------------------|--|---------------------------------|--|---|--|
| <b>7.0" Wide Screen</b>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>  | <input type="checkbox"/>                           | <input type="checkbox"/>        | <input type="checkbox"/>   | <input type="checkbox"/>                      | <input type="checkbox"/>                               |
| Construction                       | 3.2mm 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 Durability (no of touches) | 7H                                  | 3H                                   | 7H   | <4H                             | <4H  | 7H  | -  |
| IP Rating (potential)              | -                                   | > 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<br>Optical bonding       | Optical bonding                      | Dustproof,<br>Waterproof, Antiglare,<br>Safe touch | Optical bonding,<br>Tough touch | AR coating,<br>Glass painting,<br>Customer logo,<br>10point touch<br>(21.5",23",24"),<br>Optical bonding | 2point, AR coating,<br>Optical bonding        | Extended cover glass<br>Back printing<br>Whole cutting |

## System/Electrical Features

| System / Electrical             | Spec  | Unit / Notes  |
|---------------------------------|---|---|
| Power Consumption               | 8.0W  | Typical consumption at standard brightness and temperature  |
| Power Supply                    | 12V / 3.5A  | External DC power brick (included)<br>Input voltage-DC +12V +/-5% @ 2.5A max<br>Power connector: DC jack  |
| Video Input (available options) | <ul style="list-style-type: none"> <li>v VGA</li> <li>v DVI</li> <li>HDMI</li> <li>COMPOSITE</li> <li>USB</li> <li>DisplayPort</li> </ul> | Native resolution. Other resolutions supported by A/D card scaling  |
| On-screen Display (OSD)         | 5- keys<br>Menu Functions   | Menu / up / down / enter / Power<br>ON-OFF<br>Brightness, Contrast, Screen Setting,<br>Colour Temp, Language OSD<br>Settings, VGA/DVI, Recall, Auto<br>Adjust |
| Custom BIOS options             |   |   |

## Mechanical Features

| Mechanical             | Spec   | Notes  |
|------------------------|--|--|
| Overall size:          | 190 x 142 x 36.5 mm  | Including open frame, closed frame and proflat formats |
| Active Area Size       | 152.40 (H) x 91.44 (V) mm  |  |
| Case / Bezel color     | Zintec / Black power coat  | Custom colour and finishes available                   |
| Weight                 | 2.7kg  | Typ .inc touch   |
| VESA Mounting Options: | <ul style="list-style-type: none"> <li>v 75 x 75</li> <li>100 x 100</li> <li>100 x 200</li> </ul> Brackets for panel mount | For User defined mounting requirements contact rep     |

## Environmental Features

| Environmental    | Spec   |
|------------------|--|
| Operating Temp   | 0 ~ +50° C   |
| Storage Temp     | -20 ~ +60° C                                       |
| Humidity         | 90% RH   |
| Vibration        | 5-500Hz, 0.026G/Hz, 2.16 Grms, X,Y,Z. 1hr per axis |
| Agency Approvals | CE, FCC, RoHS                                      |

## Ordering Information

| Model Name         | Description  |
|--------------------|--|
| IDS31-070W540DVA1E | 7" wide screen, Industrial open-frame monitor with 5-Wire AR touchscreen, 400CD/m <sup>2</sup> brightness, VGA&DVI input |

All Advantech monitors are configurable to order. Use [www.advantech.com](http://www.advantech.com) for guidance on versions, pricing and deliver for all models

## Accessory Package

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