

# IDP-31190

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

- 19.0" LCD panel with LED backlight for long service life
- Operating temperature 0 to +40° C ; Storage temperature -20 to +60° C
- Regular brightness 250 CD/m<sup>2</sup>
- Resolution 1280 x 1024
- Contrast ratio 1000 : 1
- 85°/85°/80°/80° wide view-angle for portrait and landscape mode
- 10 points projected capacitive touch overlay
- VGA & DVI & HDMI & DisplayPort 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-31190 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.

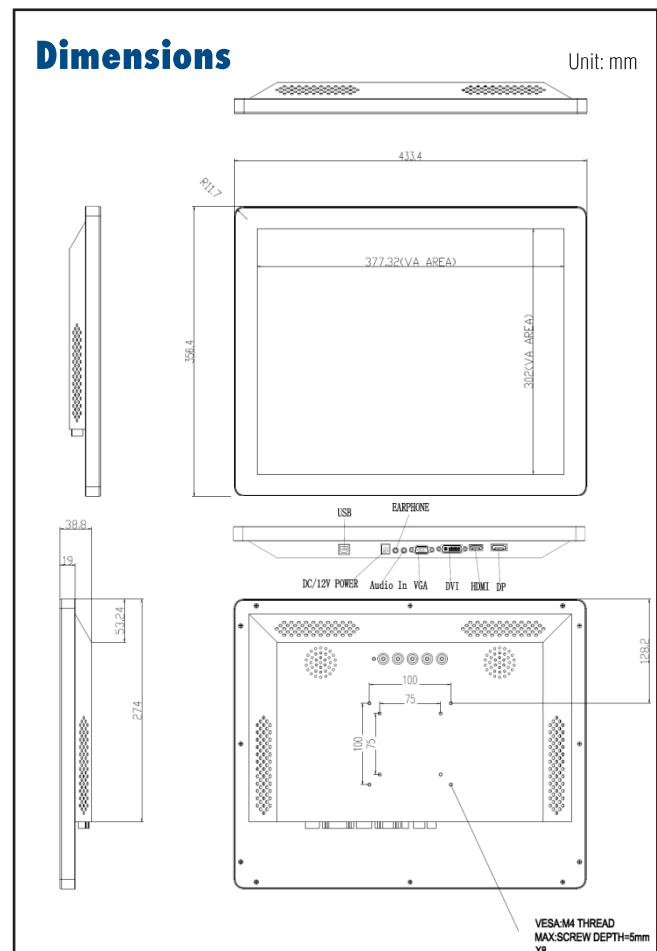
## Typical Applications

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

## Specifications

Display Features	Spec	Notes
Model	IDP-31190	
Backlight	LED	Light source
Resolution	1280 x 1024	Native resolution. Other resolutions supported by A/D card
Brightness	250 cd/m <sup>2</sup>	Measured at typical operating voltage
Viewing Angle	85°/85°/80°/80°	Left/Right/Up/Down
Surface Treatment	6H	MoHS/Anti-glare
Contrast Ratio	1000 : 1	In laboratory measurement conditions
Max Colors	16.7M	6/8 bit per colour
Response Time	5ms	Typical
Backlight Lifetime	30,000 hours	Typ. time to half brightness in room temperature operation
Cover glass	4.3±0.3mm	
Operating Temp	0° to +40° C	Industrial use
Touch Screen	10 points PCT	Projected capacitive overlay
Input / Output	VGA,DVI,HDMI,DP	
IP Rating	IP51	Front & Side of the monitor

## Dimensions



## Touch Screen Options

Type 19.0" 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	4.3mm 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	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	20W	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)	<input checked="" type="checkbox"/> VGA <input checked="" type="checkbox"/> DVI <input checked="" type="checkbox"/> HDMI <input checked="" type="checkbox"/> COMPOSITE <input checked="" type="checkbox"/> USB <input checked="" type="checkbox"/> 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	433.4 x 356.4 x 38.8mm	[ProFlat
Active Area Size	377.32 (H) x 302.0 (V) ± 0.3mm	
Case / Bezel color	Black or White powder coat	Custom colour and finishes available
Weight	5.66kg	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-31190-P25DPB1G	19.0" industrial black ProFlat monitor with 10 points PCT touchscreen, 250 cd/m <sup>2</sup> brightness, VGA & DVI & HDMI & DisplayPort input

## Accessory Package

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

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