


# MONITOR DISPLAY MODULE

## *Product Specification*

Customer	Standard or customer name		
Product Number	DM-238GN-STD		
Customer Part Number	DM-238GN-OPBR09	air bond, PCT	
	DM-238GN-OGBR09	Air bond, Protective Glass	
Customer Approval		<b>Date:</b>	

### Internal Approvals

Product Mgr	Doc. Control	Electr. Eng
Bazile Peter	Bazile Peter	Thomas Walker
<b>Date: 13/09/17</b>	<b>Date: 13/09/17</b>	<b>Date: 13/09/17</b>

# Revision Record

Rev.	Date	Page	Chapt.	Comment	ECR no.
A	13/09/17	--	--	Initial Release	

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# 1.0 General Descriptions

## 1.1 Introduction

This is an advanced 23.8" Monitor, with FHD resolution, 178 degree wide viewing angle, a full flat surface mechanical design and multi touch support for optional PCT touch.

## 1.2 Main Features

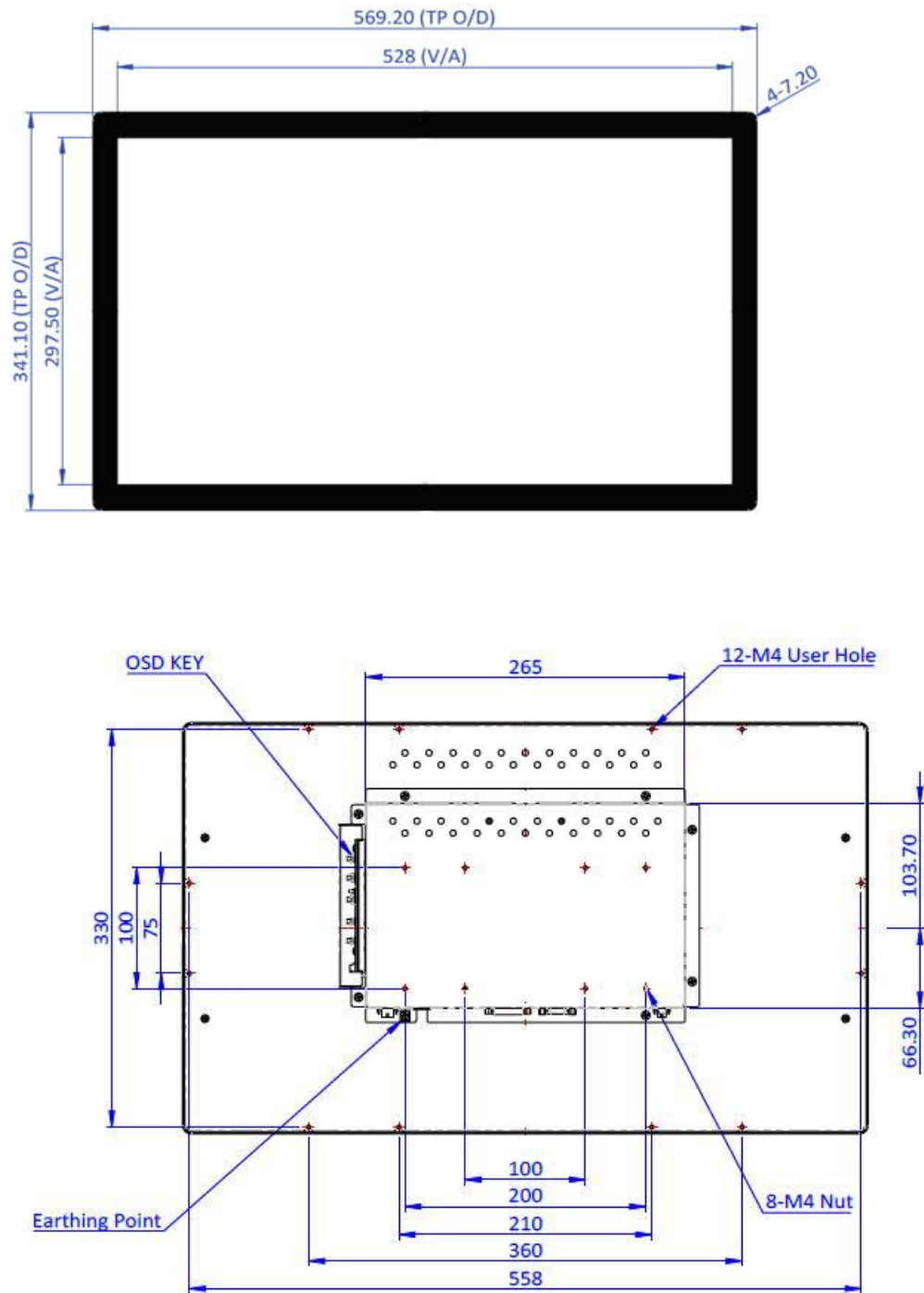
Item	Contents
Display Format	1920 x 1080
Colour	16.7M colours (8-bit RGB)
Overall Dimensions	569.2 (W) × 341.1 (H) × 38.3 (D) mm
Viewing Area	528 (W) x 297.50 (H) mm
Screen Size	23.8"
I/O	1 x DP, 1 x DVI, 1 x VGA, 1x USB Type B for touch
Touch Type	Projective Capacitive Multi Touch
Multi touch	10 points
Operating temperature	0°C ~ +50°C
Storage temperature	-20°C ~ +60°C

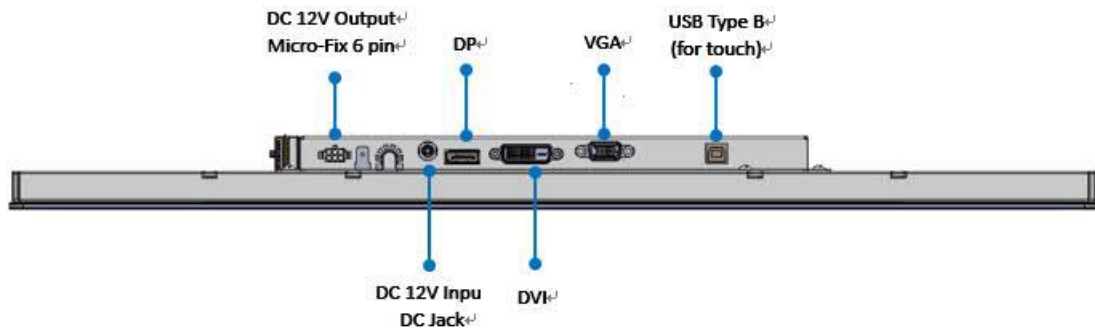
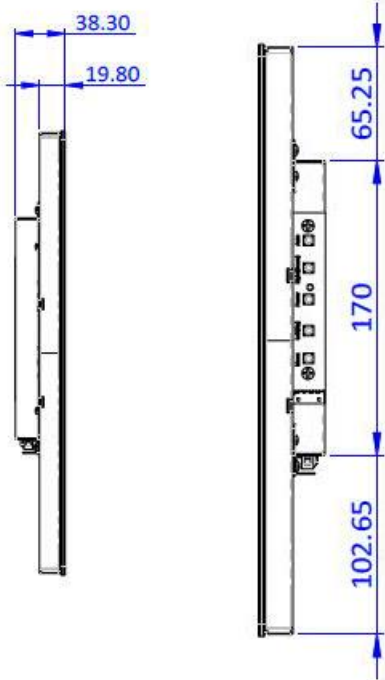
## 2.0 Mechanical Specification

### 2.1 Mechanical Characteristics

Item	Characteristic	Unit
Display Format	1920 x 1080	Dots
Overall Dimensions	569.2 (W) × 341.1 (H) × 38.3 (D)	mm
Viewing Area	528 (W) x 297.50 (H)	mm
Mounting	User hole for M4 Screw	

## 2.2 Mechanical Drawing





## 3.0 Electrical Specification

### 3.1 Power

Item	Remark
Normal Input Voltage Range	DC in, 12V/24V DC
Power Connector	DC Jack
Power Consumption	<30 W

## 4.0 Electrical Specification Touch

### 4.1 Electrical Features

Item	Remark
Touch Type	PCT Touch
Touch Point	Multi touch points (up to 10 fingers)
Interface	USB Type B
OS Support	Win 7, Win 8 and Win 10 in multi-touch Linux operating system, kernel 3.0 or later



## 5.0 Optical Specification

### 5.1 Optical Characteristics

Characteristics	Symbol	Conditions	Min	Typ	Max	Unit
Brightness	L <sub>br</sub>		-	250	-	cd/m <sup>2</sup>
Dark Room Contrast	CR		-	3000:1	-	
View Angle			178	-	-	degree

## 6.0 Environmental Specification

### 6.1 Environmental Characteristics

Item	Remark
Operating Temperature	0°C ~ +50°C
Storage Temperature	-20°C ~ +60°C
Humidity	5~90% @ 40°C, non-condensing