



SPECIFICATION : TSVH-156GE-PCT

	LCD High Bright PCAP Touch Monitor
MODEL	TSVH
PRODUCT NO.	TSVH-156GE-PCT
CUSTOMER	
DATE	2021-01-01

APPROVED BY CLIENT

APPROVED BY TOUCH AND DISPLAYS CO.,LTD	
ENGINEER	
REVIEWER	
CONFIRMED	



DOCUMENT REVISION HISTORY

Date	Rev. No	Page	Description
01,22	TDS001	All	New

MONITOR SPECIFICATIONS

ITEMS	SPECIFICATION	
PANEL	Screen Diagonal	15.6"diagonal, Active matrix TFT LCD (LED)
	Aspect Ratio	16:9
	Input Voltage	DC12V, 100-240 VAC, 50-60 Hz
	Resolution	1920×1080@60Hz
	Display Colors	16.2M, 72% NTSC
	Brightness	1000nits
	Contrast Ratio	800:1
	Response Time	12(Typ)
	Viewing Angle	85/85/85/85
	LED Life Time	50,000

TOUCH SCREEN SPECIFICATION

ITEMS	SPECIFICATION
Touch Type	Projective Capacitive Multi Touch
Touch Input Method	Pen, Finger, Gloved Hand Activation
Touch Points	1~10 points
Touch Activation Force	No minimum touch activation force
Minimum Touch Object	6mm
Light Transmittance	≥85%
Surface Hardness	≥6H
Haze	3%
Glass	Durability scratch, abrasion and vandal resistant
Interface	USB2.0 FS, HID Compliant Plug & Play
Support OS	Windows®7,Windows®8,Windows®10, Windows®XP, Linux&Android, Mac

LCD

Item	Specification	Unit	Note
Screen Size	15.6" real diagonal		
Driver Element	a-si TFT active matrix	-	-
Pixel Number	1920 x R.G.B. x 1080	pixel	-
Pixel Pitch	0.17925 (H) x 0.17925 (V)	mm	-
Pixel Arrangement	RGB vertical stripe	-	-
Display Colors	16.2M	color	-
Transmissive Mode	Normally Black	-	-
Surface Treatment	AG type, 3H hard coating,	-	-
Luminance, White	1000(Typ.)	Cd/m2	
Color Gamut	72 % of NTSC(Typ.)	-	-
Power Consumption	(Total 21 W (Typ) @ cell 4 W (Typ), BL 17 W (Typ))		

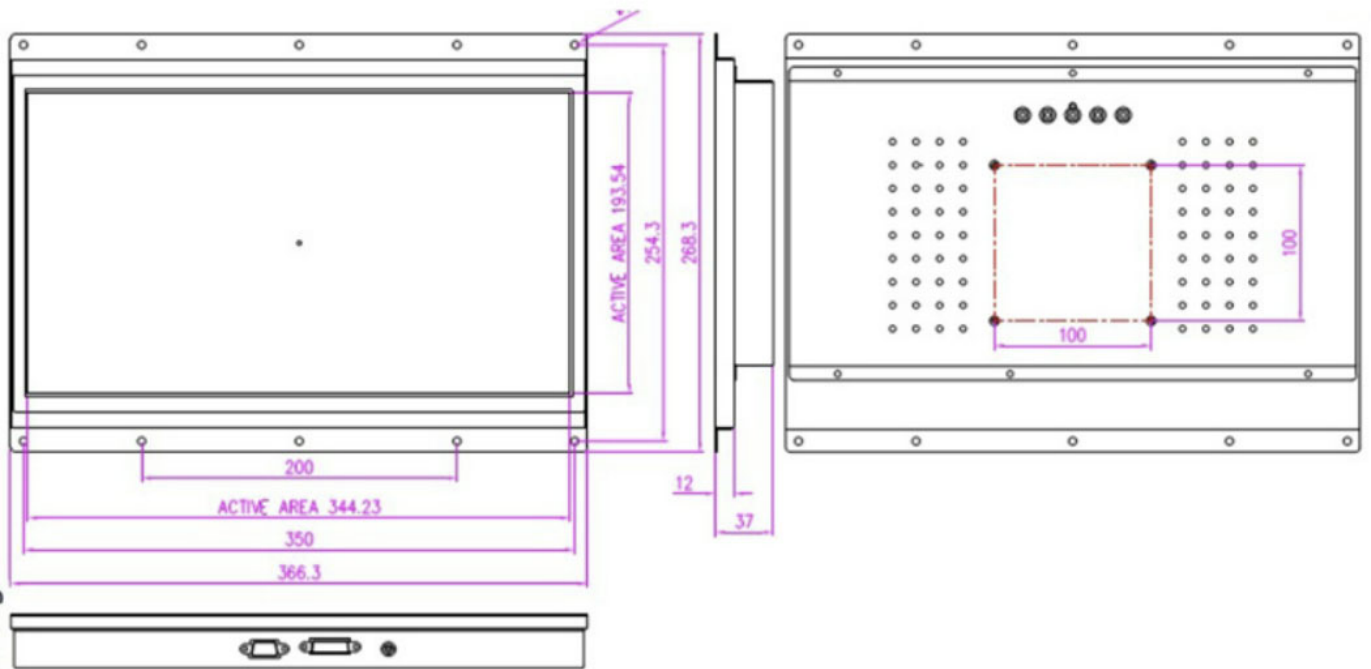
Item	Symbol	Value		Unit	Note
		Min.	Max.		
Storage Temperature	Tst	-40	90	°C	(1), (2)
Operating Ambient Temperature	Top	-30	85	°C	(1), (2)

RELIABILITY TEST ITEM

Test Item	Test Condition	Note
High Temperature Storage Test	90°C, 240 hours	(1)(2) (4)(5)
Low Temperature Storage Test	-40°C, 240 hours	
Thermal Shock Storage Test	-30°C, 0.5hour \longleftrightarrow 85°C, 0.5hour; 1hour/cycle,100cycles	
High Temperature Operation Test	85°C, 240 hours	
Low Temperature Operation Test	-30°C, 240 hours	
High Temperature & High Humidity Operation Test	60°C, 90%RH, 240hours	(1)(2) (4)(6)
Shock (Non-Operating)	50G, 11ms, half sine wave, 1 time for $\pm X$, $\pm Y$, $\pm Z$.	(2)(3)
Vibration (Non-Operating)	1.5G, 10 ~ 300 Hz, 10min/cycle, 3 cycles each X, Y, Z	(2)(3)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit	Note	
Color Chromaticity (CIE 1931)	Red	Rx	Typ - 0.05	0.652	Typ + 0.05	-	(1), (5)	
		Ry		0.338				
	Green	Gx		0.333				
		Gy		0.613				
	Blue	Bx		0.150				
		By		0.050				
	White	Wx		0.313				
		Wy		0.329				
Center Luminance of White	L _C		950	1000	-	cd/m ²	(4), (5)	
Contrast Ratio	CR		600	800	-	-	(2), (5)	
Response Time	$\frac{T_R}{T_F}$	$\theta_x=0^\circ, \theta_y=0^\circ$	-	13 12	$\frac{18}{17}$	ms	(3)	
White Variation	W	$\theta_x=0^\circ, \theta_y=0^\circ$	70	-	-	%	(5), (6)	
Viewing Angle	Horizontal	θ_{x+}	CR \geq 10	80	85	---	Deg.	(1), (5)
		θ_{x-}		80	85	---		
	Vertical	θ_{y+}		80	85	---		
		θ_{y-}		80	85	---		

MECHANICAL DRAWING



NOTE

DQ : TDS2200101-J01

1. This is a simplified drawing and some components are not marked in detail.
2. Please contact our sales representative if you need further product information.
3. All specifications are subject to change without prior notice.
4. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O , please contact our Team for more information.

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