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Custom Display

Production Custom designs Installation

Mechanical design



- ☒ **Tentative Specification**
☐ **Preliminary Specification**
☐ **Approval Specification**

MODEL NO.:ET250BA01-YU
SUFFIX: A

Approved by	Checked by	Prepaerd by	Customer Approved



Revise History

Version	Date	Description	Note
V0.1	2022/09/1	Draft	Initial version, not certified yet.



1. General Description

1.1 Overview

This specification applies to the Color TFT-LCD Module ET250BA01-YU. OCu
ses QC, This LCD module has a TFT active matrix type liquid crystal panel
3840x1440 pixels, and diagonal size of 25 inch.

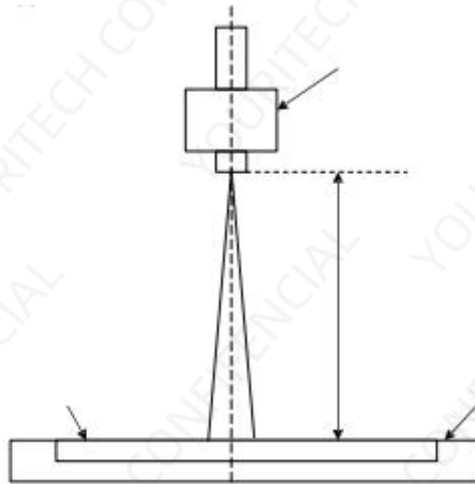
1.2 Features

Model		ET250BA01-YU	Unit	Note
LCD	Type	25	inch	
	Display Area	596.7(H) x223.8(V)	mm	
	Driver Element	a-Si TFT		
	Display Colors	16.7M	Colors	
	Number of Pixels	3840x1440	Pixel	
	Pixel Pitch	-	mm	
	Viewing Angle	89/89/89/89		
	Contrast Ratio	1000:1		
	Response Time	12	ms	
	Backlight	LED		
	Brightness	350	nits	
	Aspect Ratio	16;6		
	Surface Treatment	Hard coating (2H)		Haze 1%
Power	Consumption	≤45	W	
Operation Conditions	OperatingTemperature	0 ~ 50	°C	
	Storage Temperature	-20 ~ 60	°C	
	Humidity	20% ~ 60%		
Dimensions (mm)		628(H) x253.7(V) x16.1(D)	mm	
Weight	Net	-	Kg	
	Gross	-	Kg	



Note 1: Measurement method

The LCD module should be stabilized at given temperature for 30 minutes to avoid abrupt temperature change during measuring (at surface 35rJ). In order to stabilize the luminance, the measurement should be executed after lighting Backlight for 30 minutes in a stable, windless and dark room.

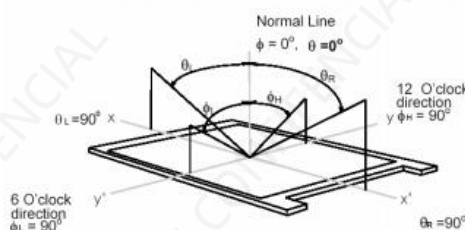


Center of the screen

Note 2: Definition of viewing angle measured by ELDIM (EZContrast 88)

Viewing angle is the measurement of contrast ratio ≥ 10 , at the screen center, over a 180°

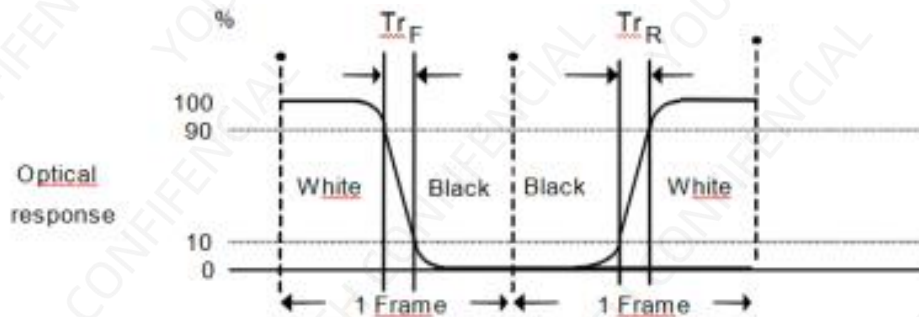
horizontal and 180° vertical range (off-normal viewing angles). The 180° viewing angle range is broken down as follows; 90° (θ) horizontal left and right and 90° (Φ) vertical, high (up) and low (down). The measurement direction is typically perpendicular to the display surface with the screen rotated about its center to develop the desired measurement viewing angle.



Note 3: Contrast ratio is measured by TOPCON SR-3

Note 4: Definition of Response time measured by Westar TRD-100A

The output signals of photo detector are measured when the input signals are changed from "Full Black" to "Full White" (rising time, Tr_R), and from "Full White" to "Full Black" (falling time, Tr_F), respectively. The response time is interval between the 10% and 90% (1 frame at 60 Hz) of amplitudes.



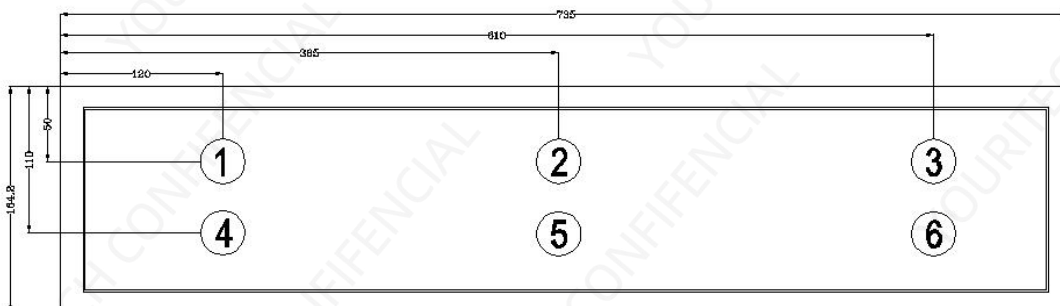
$Tr_R + Tr_F = 5 \text{ msec (typ.)}$.

Algorithm: $|\text{Gray Level A} - \text{Gray Level B}| \times 16$, then the average gray to gray response time is 2 ms, ($F = 60 \text{ Hz}$).

Note 5: Color chromaticity and coordinates (CIE) is measured by TOPCON SR-3

Note 6: Central luminance is measured by TOPCON SR-3

Note 7: Luminance uniformity of these 6 points is defined as below and measured by TOPCON SR-3



2. Connector

2.1 Input Signal & Power :eDP , 30 pins

2.2 Backlight Connector:

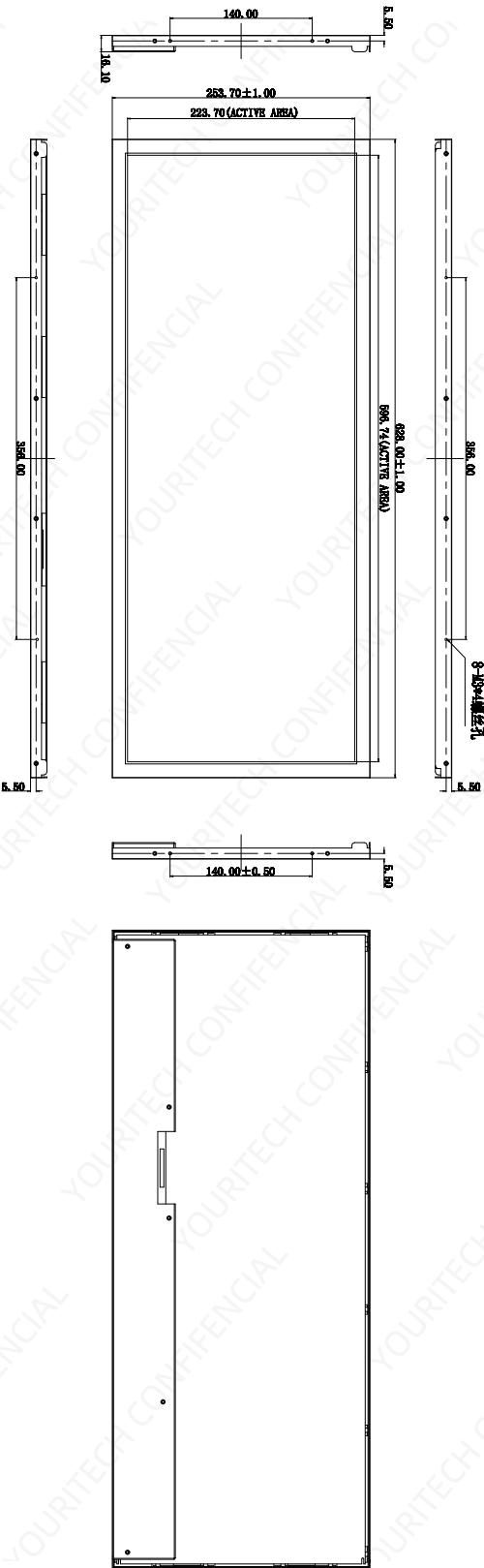
PH2.0-2pin

PIN	Signal	Feature
1	VLED1+	VLED OUT 1
2	VLED1-	1 Return 1

3. Mechanical Characteristics



标记	内容	日期	签名



技术要求:

1. 整机表面整洁光滑，不应有凹凸变形、粗糙不平、划伤、间隙、裂纹、毛刺、边缘棱角突出、霉斑、脏污、指纹、色差、螺丝孔堵塞、金属斑点、黑点、纹理等任何缺陷；
2. 所有五金件切口及螺丝沉头位置做防锈处理；
3. 所有装配螺丝孔牙长5.0 ± 0.5mm；
4. 未注尺寸公差参照尺寸公差对应表；

设计			整机名称:	24.6吋 条形液晶显示屏	型号	
审核			整机规格:	24.6吋	图号	
批准			单位	mm	比例	1:1
公差	0 ~ 30 ± 0.50	30~100 ± 0.80				
	100 ± 1.0	ANGLE: A8 ± 0.3°				
A4	1st ANGLE PROJECTION		YOURITECH TECHNOLOGY			