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**TITLE: HT17E12-200 Product Specification
(for Customer)**

Rev. A

Hyundai Display Technology, Inc.

SPEC. NUMBER
S864-1118

PRODUCT GROUP
TFT-LCD PRODUCT

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REVISION HISTORY				
REV.	ECN NO.	DESCRIPTION OF CHANGES	DATE	PREPARED
0 A	E210-F005	Initial Release Change the mechanical tolerance of user hole. Insert viewing angle spec when CR>5 . Change the CR typical value. Insert typical value of lamp start up voltage. Notice 6 bit FRC driving method.	02.10.12 02.10.31	S.S.YUN Y.W.SON
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SPEC. NUMBER

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SPEC. TITLE

HT17E12-200 Product Specification

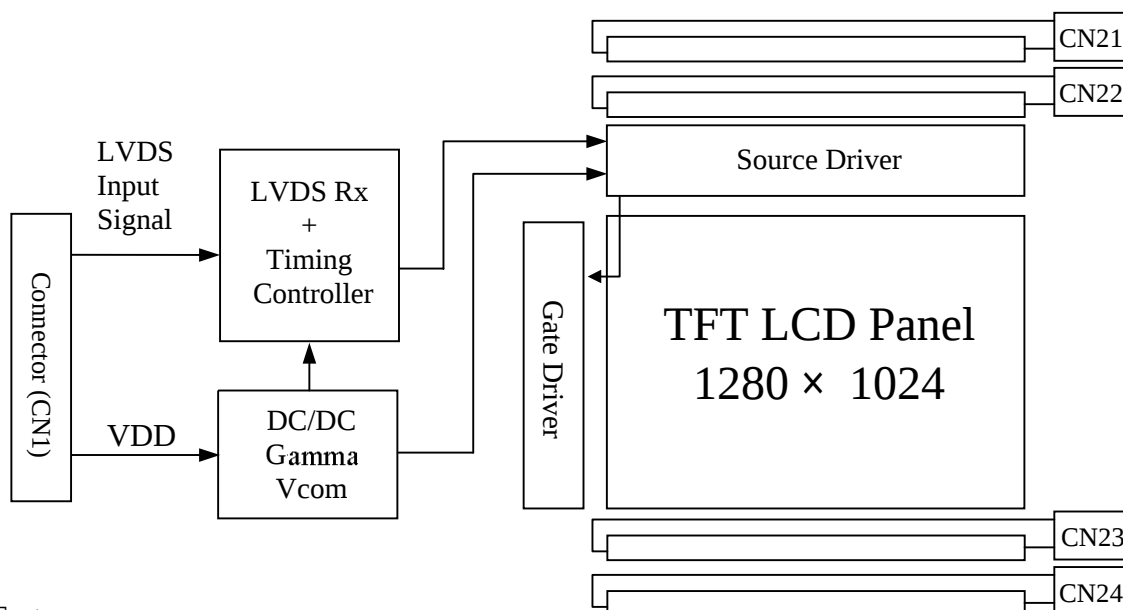
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1.0 GENERAL DESCRIPTION

1.1 Introduction

HT17E12-200 is a color active matrix TFT LCD module using amorphous silicon TFT's (Thin Film Transistors) as an active switching devices. This module has a 17.0 inch diagonally measured active area with SXGA resolutions (1280 horizontal by 1024 vertical pixel array). Each pixel is divided into RED, GREEN, BLUE dots which are arranged in vertical stripe and this module can display 16,194,227 colors. The TFT-LCD panel used for this module is adapted for a low reflection and higher color type.



1.2 Features

- LVDS Interface with 2 pixel / clock
- High-speed response
- Low power consumption
- 6-bit (FRC) color depth, display 16,194,227 colors
- Incorporated edge type back-light (Four lamps)
- High luminance and contrast ratio, low reflection and wide viewing angle
- DE (Data Enable) mode

1.3 Applications

- Desktop Type of PC & Workstation Use
- Slim-Size Display for Stand-alone Monitor
- Display Terminals for Control System
- Monitors for Process Controller

1.4 General Specifications

The followings are general specifications at the model HT17E12-200

<Table 1. General Specifications>

Parameter	Specification	Unit	Remarks
Active area	337.92 (H) × 270.336(V)	mm	
Number of pixels	1280(H) × 1024(V)	pixels	
Pixel pitch	0.264(H) × 0.264(V)	mm	
Pixel arrangement	RGB Vertical stripe		
Display colors	16,194,227	colors	
Display mode	Normally White		
Dimensional outline	358.5(H) × 296.5(V) × 17.0(D) typ.	mm	
Weight	1900 max.	gram	
Back-light	Top/Bottom edge side 4-CCFL type		Note 1

Note: 1. CCFL (Cold Cathode Fluorescent Lamp)

2.0 ABSOLUTE MAXIMUM RATINGS

The followings are maximum values which, if exceed, may cause faulty operation or damage to the unit. The operational and non-operational maximum voltage and current values are listed in Table 2.

<Table 2. Absolute Maximum Ratings>

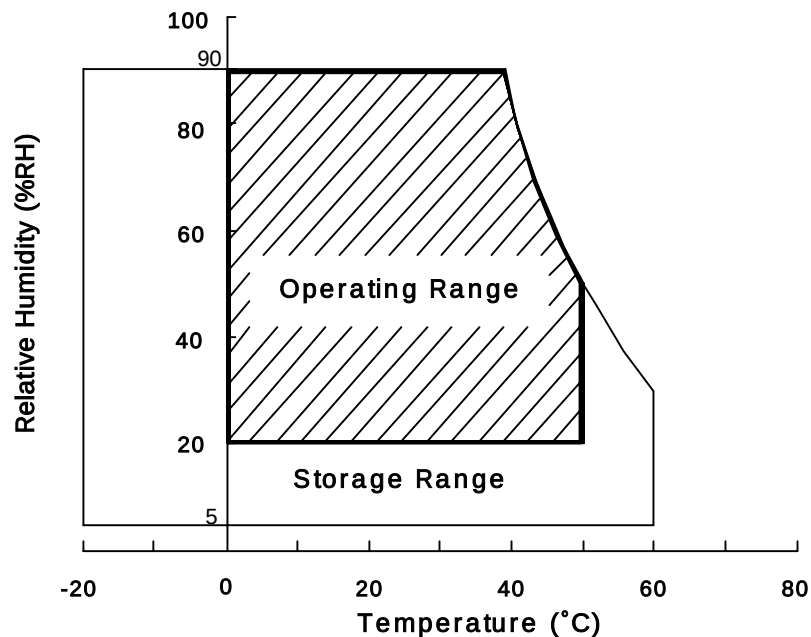
[VSS = GND =0V]

Parameter	Symbol	Min	Max	Unit	Remarks
Power Input Voltage	V_{DD}	VSS-0.5	6.5	V	Ta = 25
Logic Input Voltage	V_{IN}	VSS-0.3	$V_{DD}+0.3$	V	
Back-light Lamp Current	I_{BL}	3	7	mA	
Back-light lamp Frequency	F_L	30	(80)	KHz	
Operating Temperature	T_{OP}	0	+50		1)
Storage Temperature	T_{ST}	-20	+60		1)

Notes :

1) Temperature and relative humidity range are shown in the figure below.

Wet bulb temperature should be 39 max. and no condensation of water.



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