Confidential Document

DATA IMAGE CORPORATION

TFT Module Specification

Preliminary

ITEM NO.: FG0700G3DUSWMG01

Table of Contents

Customer Companies	R&D Dept.	Q.C. Dept.	Eng. Dept.	Prod. Dept.
	ALEX	JOE	GARY	KEN
Approved by	Version:	Issued Date:	Sheet Code:	Total Pages:
	2	18/JAN/13'		20

2. RECORD OF REVISION

Rev	Date	Item	Page	Comment
1	20/SEP/12'			Initial preliminary
2	18/JAN/13'	6.2 8 11.1.5 14	4 9 11 19	1. Modify Backlight LED Circuit. 2. Modify Contrast Ration. 3. Add Test Method Remark. 3. Modify Outline Drawing from Rev.1 to Rev.2.

3. APPLICATION

DVD player, Car TV, UMPC, POS

4. GENERAL SPECIFICATIONS

Parameter	Specifications	Unit
Screen Size	7 (diagonal)	inch
Display Format	800(H) x (R,G,B) x 480(V)	dot
Active Area	152.4(H) x 91.44(V)	mm
Dot Pitch	0.0635 (H) x 0.1905 (V)	mm
Pixel Configuration	Stripe	
Outline Dimension	165(W) x 106.4(H) x 3.4 (D)	mm
Surface treatment	Anti-glare and hard coating (3H)	
Back-light	LED	
Display mode	Normally white	
Weight	132	g
View Angle direction	All	

5. ABSOLUTE MAXIMUM RATINGS

GND=0V

Parameter		Symbol	MIN.	MAX.	Unit	Remark
Power supply voltage		VCC	-0.3	7	V	Ta=25°C
Logic input voltage		VI	-0.3	V_{CC}+0.3	V	
Operating temperature		Top	-20	70	°C	Module surface*
Storage temperature		Tst	-30	+80	°C	-
Humidity	Operation	20%~90% relative humidity				Ta<=38°C
	Non Operation	5%~90% relative humidity				Ta<=38°C

6. ELECTRICAL CHARACTERISTICS
6.1 Operating Conditions

GND=0V, fH=31.5KHz, fV=60Hz, fCLK=33.26MHz,Ta=25°C

Parameter	Symbol	MIN.	Typ.	MAX.	Unit	Remark
Power Supply voltage	V_{CC}	3.0	3.3	3.6	V	
Power Supply Current	I_{CC}		150	200	mA	V_{CC} =3.3V
Ripple voltage	V_{RF}	-	-	100	mV$_{P-P}$	
"H" level logical input voltage	V_{IH}	0.7Vcc	--	Vcc	V	
"L" level logical input voltage	V_{IL}	0	--	0.3Vcc	V	

6.2 Backlight Driving Consumption

Ta= 25 °C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Remark
VLED voltage	V_L	8.7	--	11.5	V	Note1
LED current	I_L	-	250	-	mA	
LED dice life time		20,000	30,000		hr	Note2
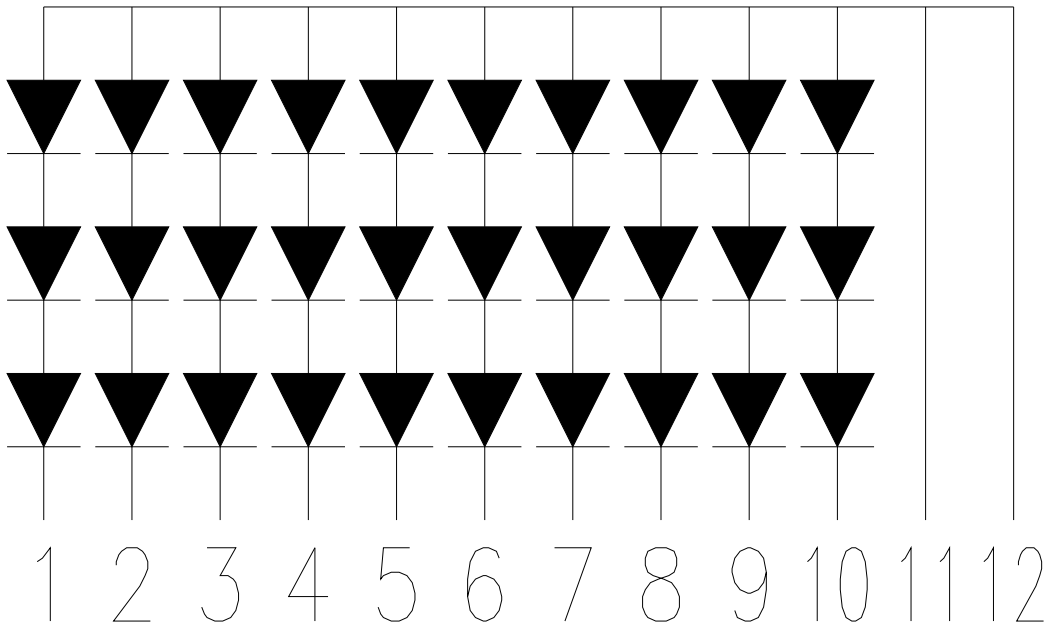
PIN CONNECTIONS

Pin NO.	DESCRIPTION
1	LED K1
2	LED K2
3	LED K3
4	LED K4
5	LED K5
6	LED K6
7	LED K7
8	LED K8
9	LED K9
10	LED K10
11	LED A
12	LED A

Note1: There are 10 Groups (1 Group of three LEDs).

Note2: The "LED dice life time" is defined as the brightness decrease to 50% original brightness that the ambient temperature is 18℃~28℃ and LED dice current=25mA.

7. INPUT SIGNAL CHARACTERISTICS
7.1 AC Characteristics
7.1.1 AC Electrical Characteristics

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
HS setup time	T_{hst}	6	-	-	ns
HS hold time	T_{hhd}	6	-	-	ns
VS setup time	T_{vst}	6	-	-	ns
VS hold time	T_{vhd}	6	-	-	ns
Data setup time	T_{dsu}	6	-	-	ns
Data hold time	T_{dhd}	6	-	-	ns
DE setup time	T_{esu}	6	-	-	ns

7.1.2 Resolution：800x480

● **sync mode**

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
CLK frequency	F_{CPH}	-	33.26	-	MHz
CLK period	T_{CPH}	-	30.06	-	ns
CLK pulse duty	T_{CWH}	40	50	60	%
HS period	T_H	-	1056	-	T_{CPH}
HS pulse width	T_{WH}	1	128	-	T_{CPH}
HS-first horizontal data time	T_{HS}	-	216	-	T_{CPH}
HS Active Time	T_{HA}	-	800	-	T_{CPH}
VS period	T_V	-	525	-	T_H
VS pulse width	T_{WV}	1	2	-	T_H
VS-DE time	T_{VS}	-	35	-	T_H
VS Active Time	T_{VA}	-	480	-	T_H

● **DE mode**

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
CLK frequency	F_{CPH}	-	33.26	-	MHz
CLK period	T_{CPH}	-	30.06	-	ns
CLK pulse duty	T_{CWH}	40	50	60	%
DE period	$T_{DEH}+T_{DEL}$	1000	1056	1200	T_{CPH}
DE pulse width	T_{DH}	-	800	-	T_{CPH}
DE frame blanking	T_{HS}	10	45	110	$T_{DEH}+T_{DEL}$
DE frame width	T_{EP}	-	480	-	$T_{DEH}+T_{DEL}$

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
OEV pulse width	T_{OEV}	-	150	-	T_{CPH}
CKV pulse width	T_{CKV}	-	133	-	T_{CPH}
DE(internal)-STV time	T_1	-	4	-	T_{CPH}
DE(internal)-CKV time	T_2	-	40	-	T_{CPH}
DE(internal)-OEV time	T_3	-	23	-	T_{CPH}
DE(internal)-POL time	T_4	-	157	-	T_{CPH}
STV pulse width	-	-	1	-	T_H

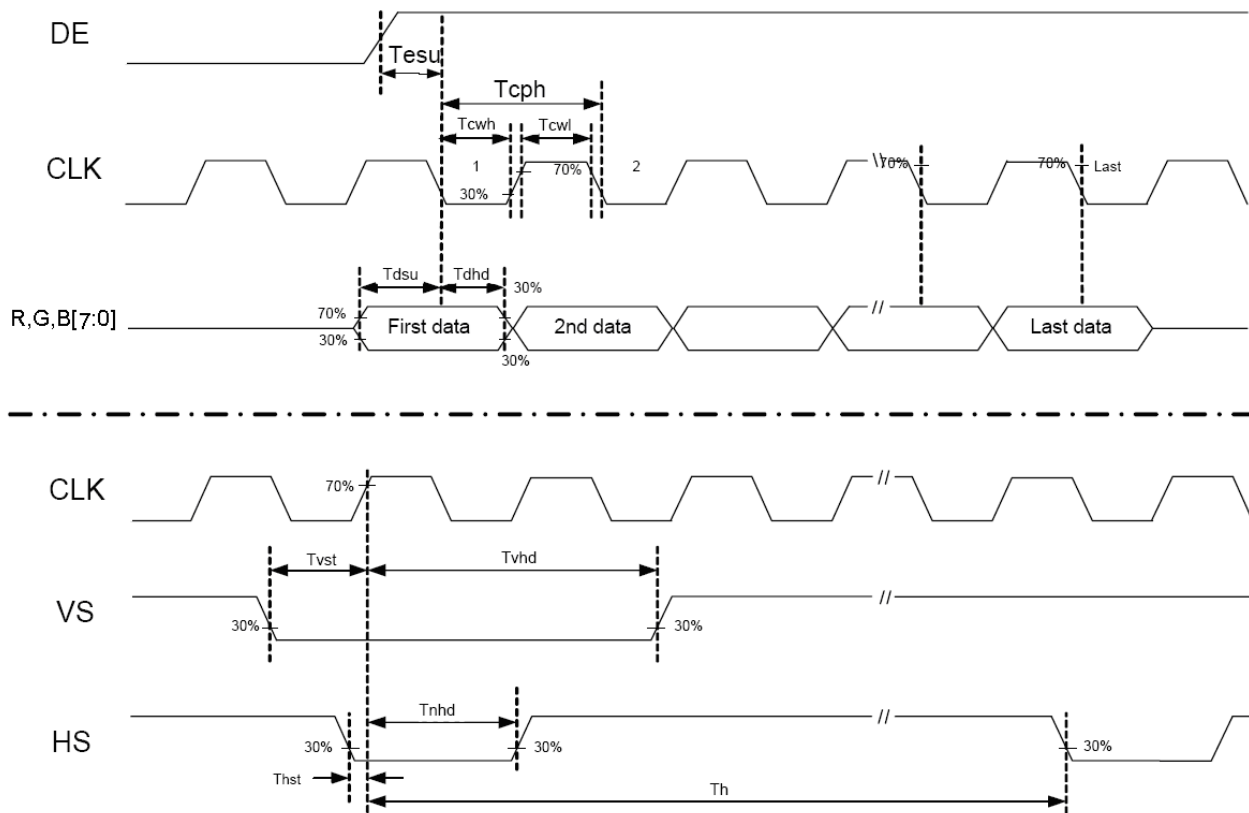## 7.2 Timing Controller Timing Chart
7.2.1 Clock and Data input waveforms

Figure 1 Clock and Data input waveforms.

7.2.2 Data Input format

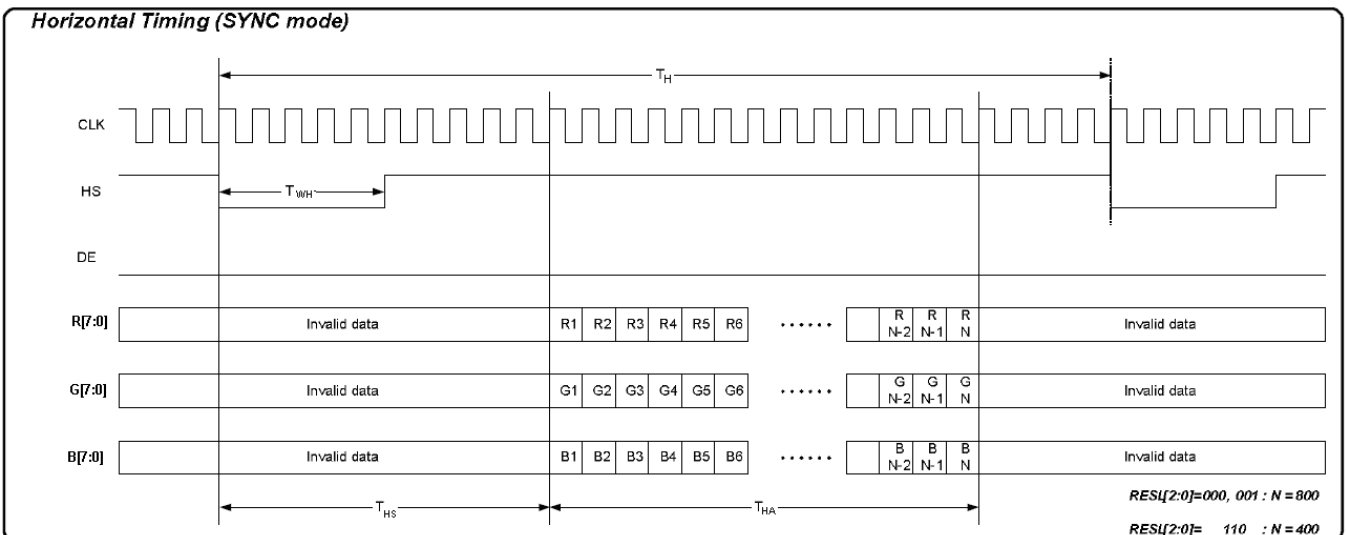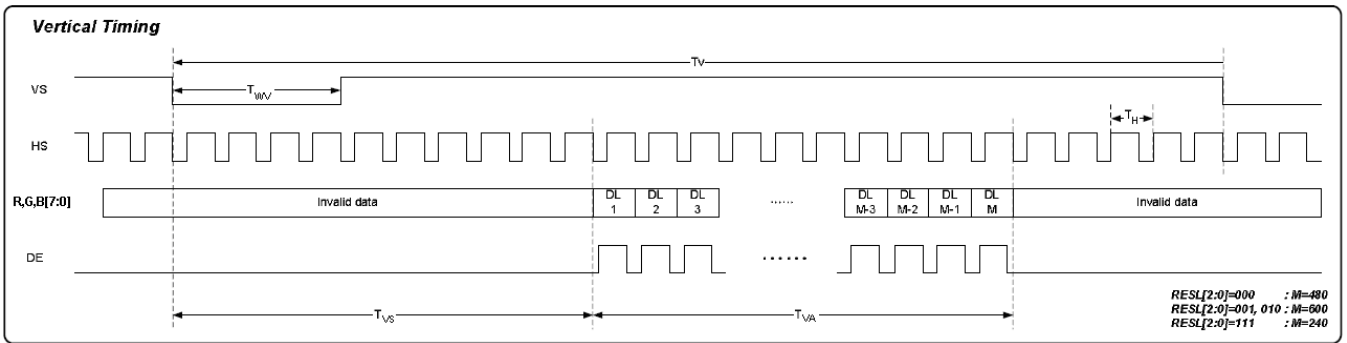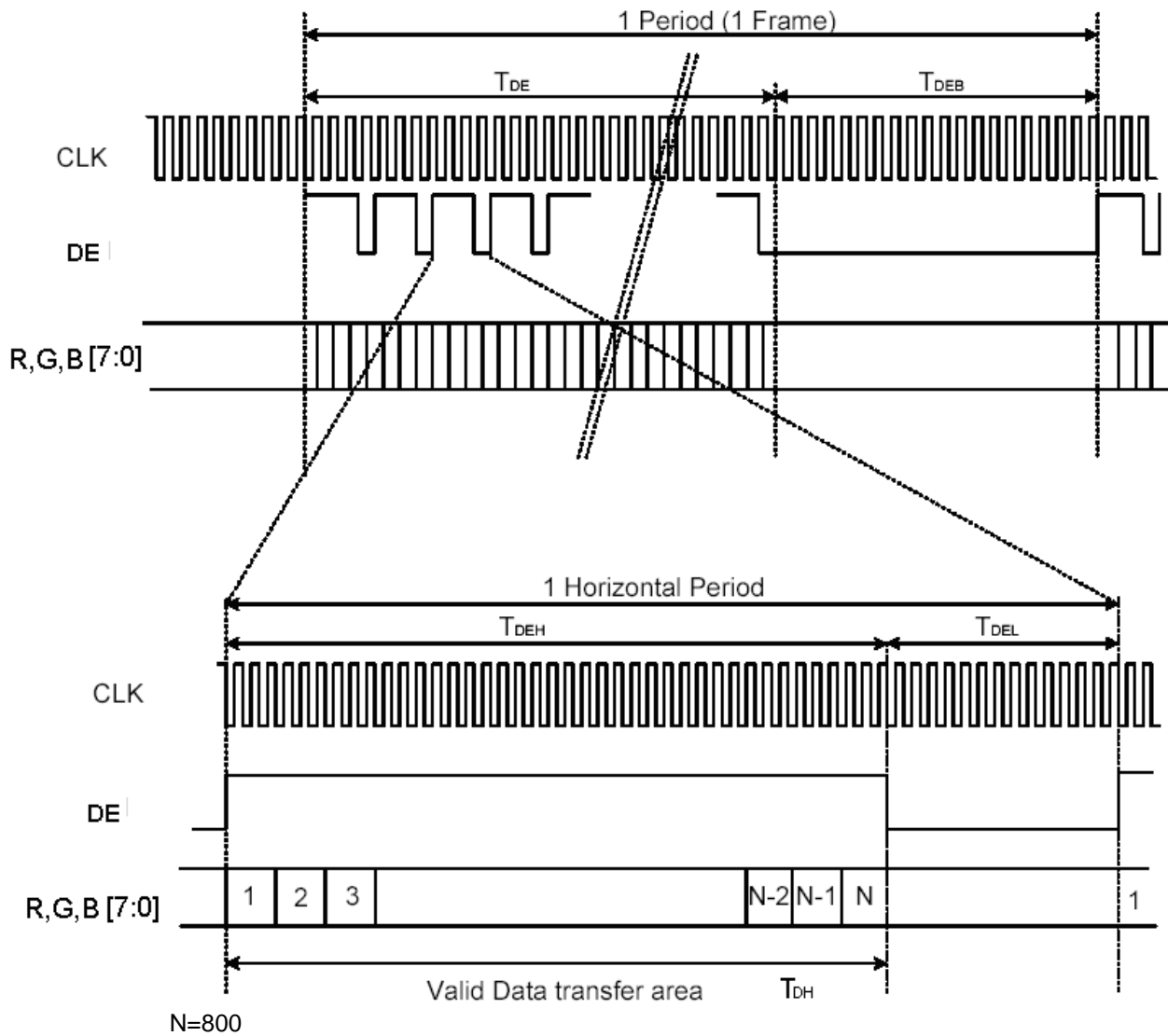**Figure 2 SYNC Mode Horizontal Data Format**

Vertical Timing

RESL[2:0]=000 : M=480
RESL[2:0]=001, 010 : M=600
RESL[2:0]=111 : M=240

Figure 3 SYNC Mode Vertical Data Format

7.2.3 DE Mode Data Format

N=800

Figure 4 DE Mode Data Format

7.3 Color Data Input Assignment

COLOR	DISPLAY	R0	R1	R2	R3	R4	R5	R6	R7	G0	G1	G2	G3	G4	G5	G6	G7	B0	B1	B2	B3	B4	B5	B6	B7	GRAY SCALE LEVEL
BASIC COLOR	BLACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
	BLUE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	-
	GREEN	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	-
	CYAN	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-
	RED	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
	MAGENTA	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	-
	YELLOW	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	-
	WHITE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-
GRAY SCALE OF RED	BLACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	R0
	DARK ↑	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	R1
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	R2
	↓	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	R3~R252
		:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	
	LIGHT	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	R253
		0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	R254
	RED	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	R255
GRAY SCALE OF GREEN	BLACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	G0
	DARK ↑	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	G1
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	G2
	↓	:			:	:	:	:	:	:			:	:	:	:	:	:			:	:	:	:	:	G3~G252
		:			:	:	:	:	:	:			:	:	:	:	:	:			:	:	:	:	:	
	LIGHT	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	G253
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	G254
	GREEN	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	G255
GRAY SCALE OF BLUE	BLACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	B0
	DARK ↑	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	B1
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	B2
	↓	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	B3~B252
		:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	
	LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	B253
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	B254
	BLUE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	B255

Note) Definition of Gray :

Rn : Red Gray, Gn : Green Gray, Bn : Blue Gray (n = Gray level)

Input Signal : 0 = Low level voltage, 1 = High level voltage

8. OPTICAL CHARACTERISTIC

Parameter		Symbol	Condition	MIN.	TYP.	MAX.	Unit	Remarks
Viewing Angle	Horizontal	θ_x+	Center CR≥10	70	80	--	deg	Note 1,4
		θ_x-		70	80	--		
	Vertical	θ_Y+		70	80	--		
		θ_Y-		70	80	--		
Contrast Ratio		CR	at optimized viewing angle	500	600			Note 1,3
Response time	Rise	Tr	Center	-	5	10	ms	Note 1,6
	Fall	Tf	$\theta x=\theta y=0°$	-	15	20	ms	
Uniformity		B-uni	$\theta x=\theta y=0°$	70	80	--	%	Note1,5
Brightness		L	$\theta x=\theta y=0°$	400	500	--	cd/㎡	Note 1,2
Chromaticity		x_W	Center $\theta x=\theta y=0°$	0.268	0.318	0.368		Note 1,7
		y_W		0.289	0.339	0.389		
		x_R		0.525	0.575	0.625		
		y_R		0.310	0.360	0.410		
		x_G		0.281	0.331	0.381		
		y_G		0.521	0.571	0.621		
		x_B		0.099	0.149	0.199		
		y_B		0.088	0.138	0.188		
Image sticking		tis	2 hours			2	Sec	Note 8

The following optical specifications shall be measured in a darkroom or equivalent state (ambient luminance ≤1 lux, and at room temperature).
The operation temperature is 25°C±2°C and LED Backlight Current IL=250mA.
The measurement method is shown in Note1.
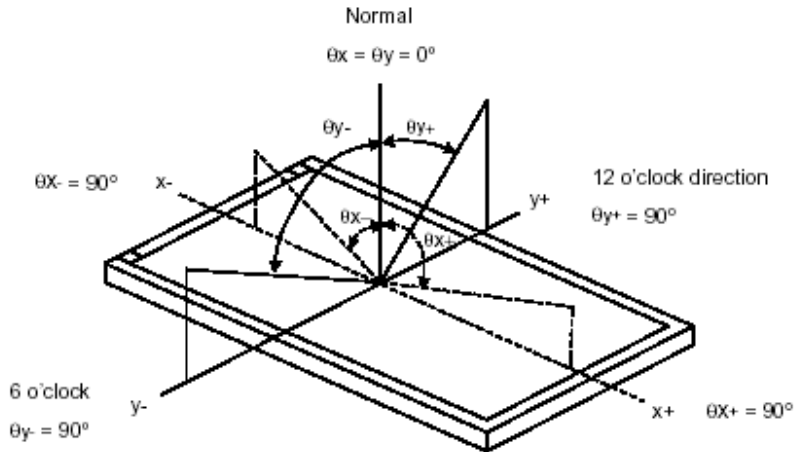
Note1: The method of optical measurement:
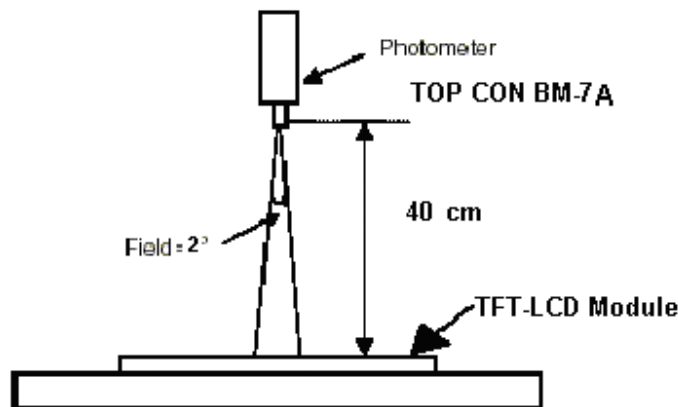
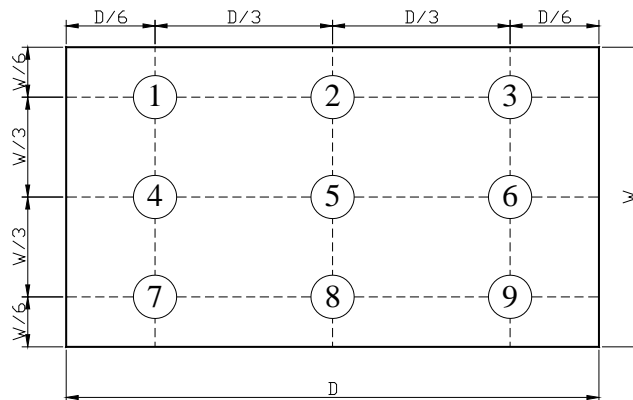Note2: Measured at the center area of the panel and at the viewing angle of the $\theta x = \theta y = 0°$

Note3: Definition of Contrast Ratio (CR):

$$CR = \frac{\text{Luminance with all pixels in white state}}{\text{Luminance with all pixels in Black state}}$$
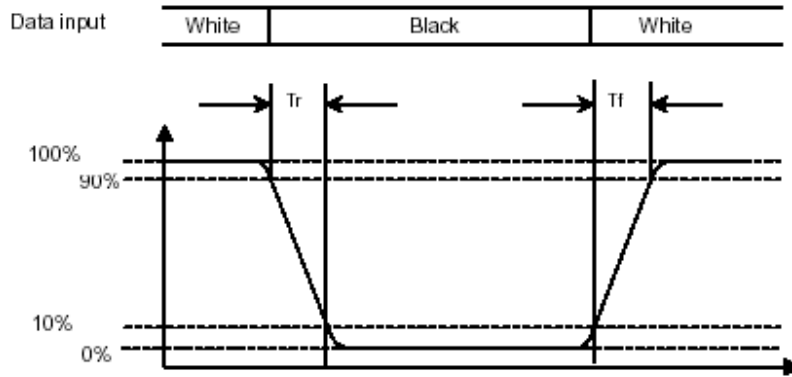
Note4: Definition of Viewing Angle

Note 5: Definition of Brightness Uniformity (B-uni):

$$\text{B-uni} = \frac{\text{Minimum luminance of 9 points}}{\text{Maximum luminance of 9points}} \quad \text{(Note 5)}.$$

Note6: Definition of Response Time:

The Response Time is set initially by defining the "Rising Time (Tr)" and the "Falling Time (Tf)" respectively. Tr and Tf are defined as following figure.

Note 7: Definition of Chromaticity:

The color coordinates $(x_W,y_W),(x_R,y_R),(x_G,y_G)$,and (x_B,y_B) are obtained with all pixels in the viewing field at white, red, green, and blue states, respectively.

Note 8: Definition of Image sticking (tis):

Continuously display the test pattern shown in the figure below for 2 hours. Then display a completely white screen.

The previous image shall not persist more than 2 sec at 25 °C

Image sticking pattern
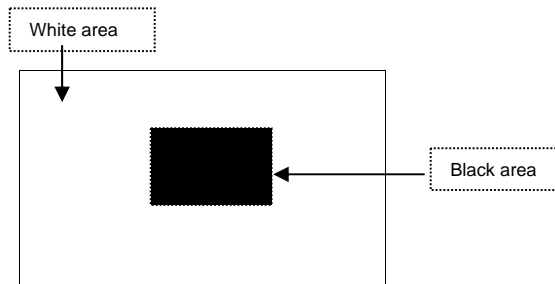
9. PIN CONNECTIONS

Pin NO.	SYMBOL	DESCRIPTION
1	GND	Power Ground
2	GND	Power Ground
3	VCC	Power Supply for Digital Circuit
4	VCC	Power Supply for Digital Circuit
5	R0	Red Data 0 (LSB)
6	R1	Red Data 1
7	R2	Red Data 2
8	R3	Red Data 3
9	R4	Red Data 4
10	R5	Red Data 5
11	R6	Red Data 6
12	R7	Red Data 7 (MSB)
13	G0	Green Data 0 (LSB)
14	G1	Green Data 1
15	G2	Green Data 2
16	G3	Green Data 3
17	G4	Green Data 4
18	G5	Green Data 5
19	G6	Green Data 6
20	G7	Green Data 7 (MSB)
21	B0	Blue Data 0 (LSB)
22	B1	Blue Data 1
23	B2	Blue Data 2
24	B3	Blue Data 3
25	B4	Blue Data 4
26	B5	Blue Data 5
27	B6	Blue Data 6
28	B7	Blue Data 7 (MSB)
29	GND	Power Ground
30	CLK	Clock Signals ; Latch Data at the Falling Edge
31	NC	No connection
32	HS	Horizontal synchronous signal
33	VS	Vertical synchronous signal
34	DE	Data Enable Signal
35	NC	No connection
36	NC	No connection
37	GND	Power Ground
38	GND	Power Ground
39	NC	No connection
40	NC	No connection

Note:
    The LCM support both DE mode and Sync mode timing. When DE is pulled low, which is sync mode. When DE is an active data and pulled low for blanking data, which is DE mode.

Remarks**:**
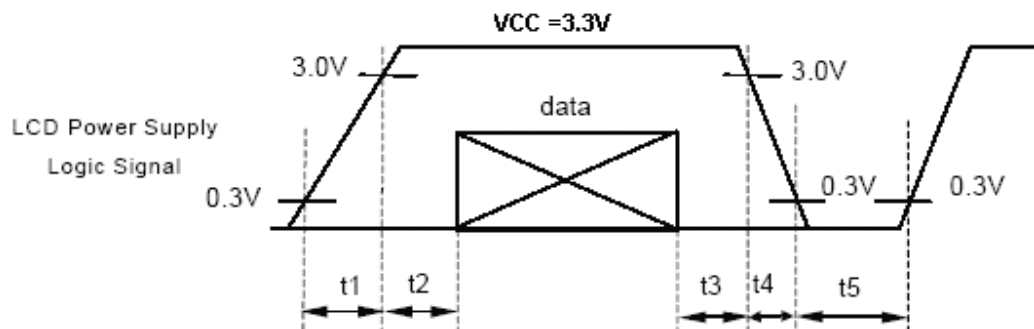
 Power Signal sequence**:**

t1 ≤10ms   ; 1 sec≤ t5

50ms≤ t2   **;**

0<t3 ≤50ms **;**

0<t4 ≤10ms

VCC -dip condition**:**

(1) 2.7V ≤VCC≤3.0V: td ≤10 ms

(2) VCC >3.0V: VCC -dip condition should be the same with VCC,-turn-on condition.

10. BLOCK DIAGRAM

```
┌─────────────────────────────────────────────────────────┐
│  ┌─────────────────────────────────────────────┐         │
│  │               TFT                            │         │
│  │             Display                          │         │
│  └─────────────────────────────────────────────┘         │
│  ┌──────┐      ┌──────────────────┐                      │
│  │      │      │  TFT-LCD PANEL   │   ┌────────────┐     │
│  │ Scan │ ───▶ │ (800xR,G,Bx480)  │   │ Back light │     │
│  │Driver│      │                  │   │    Unit    │     │
│  │  IC  │      └──────────────────┘   └────────────┘     │
│  │      │            ▲                       ▲           │
│  │      │      ┌──────────────────┐          │           │
│  │      │      │  Data Driver IC  │          │           │
│  └──────┘      │   With TCON      │          │           │
│     ▲          └──────────────────┘          │           │
│     │                    ▲                    │           │
│     └────────────────────┴────────────────── │           │
│                          ▲                    │           │
└──────────────────────────┼────────────────────┼──────────┘
                  ┌──────────────────┐           │
                  │    DC/DC         │       LEDA │
                  │   Converter      │       LEDK │
                  │ 40PIN INPUT FPC  │
                  └──────────────────┘
```
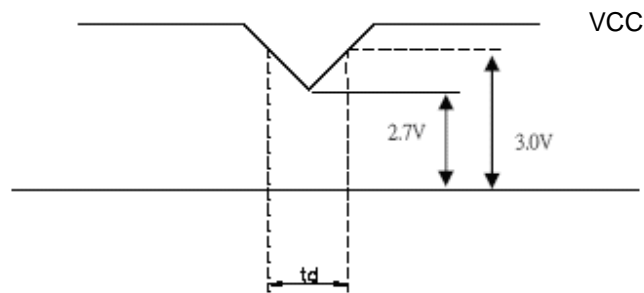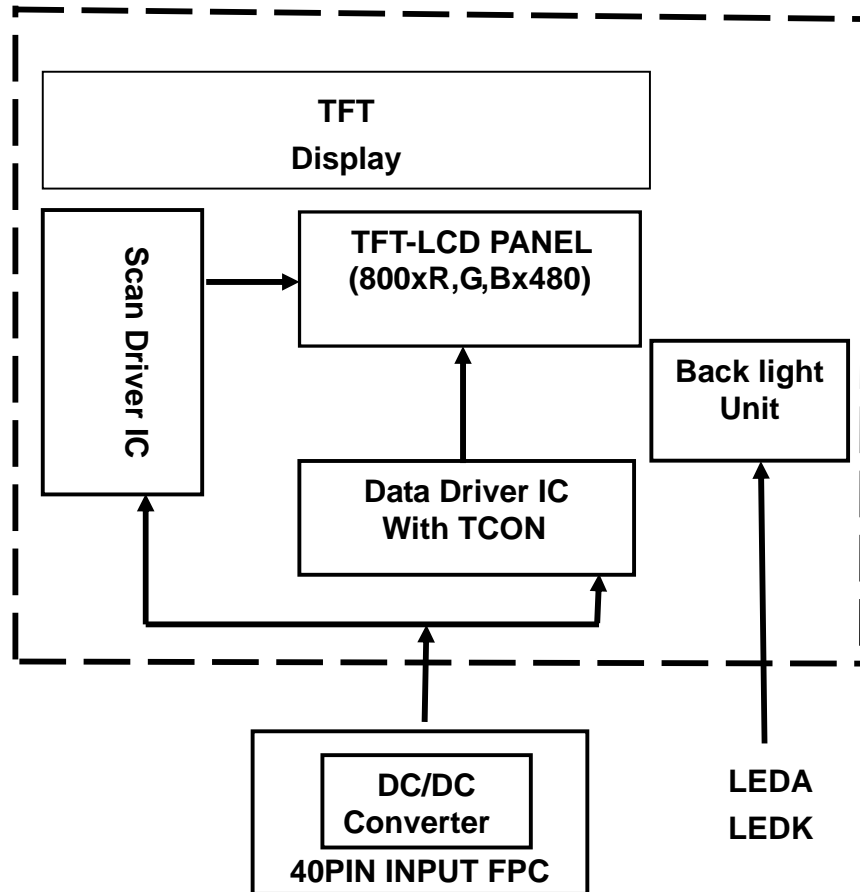
11. QUALITY ASSURANCE

11.1 Test Condition

11.1.1 Temperature and Humidity(Ambient Temperature)
Temperature : $25 \pm 5°C$
Humidity : $65 \pm 5\%$

11.1.2 Operation
Unless specified otherwise, test will be conducted under function state.

11.1.3 Container
Unless specified otherwise, vibration test will be conducted to the product itself without putting it in a container.

11.1.4 Test Frequency
In case of related to deterioration such as shock test. It will be conducted only once.

11.1.5 Test Method

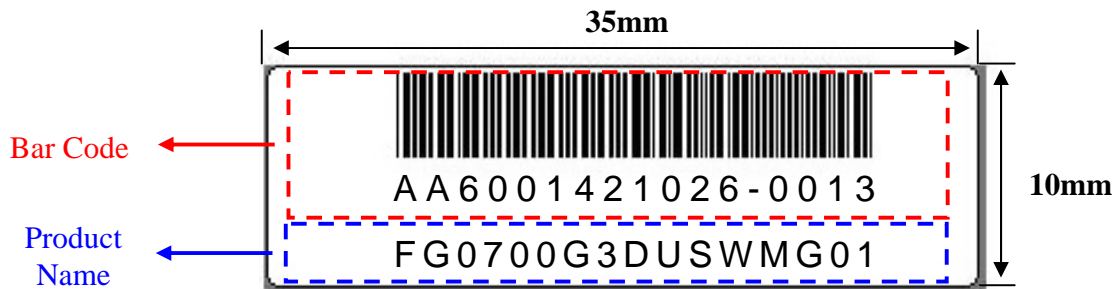| Reliability Test Item & Level		Test Level	Remark
No.	Test Item		
1	High Temperature Storage Test	T=80℃,240hrs	IEC68-2-2
2	Low Temperature Storage Test	T=-30℃,240hrs	IEC68-2-1
3	High Temperature Operation Test	T=70℃,240hrs	IEC68-2-2
4	Low Temperature Operation Test	T=-20℃,240hrs	IEC68-2-1
5	High Temperature and High Humidity (No operation)	T=60℃,90%RH,240hrs	IEC68-2-3
6	Thermal Cycling Test (No operation)	-30℃ → +25℃ → +80℃, 100 Cycles 30 min　5 min　30 min	IEC68-2-14
7	Vibration Test (No operation)	Frequency :10 ~ 55 H_z Amplitude :1.5 mm Sweep time : 11 mins Test Period: 6 Cycles for each direction of X, Y, Z	IEC68-2-6
8	Shock Test (No operation)	100G, 6ms Direction: ±X, ±Y, ±Z Cycle: 3 times	IEC68-2-27

11.2 Judgment standard
The Judgment of the above test should be made as follow:
Pass: Normal display image with no obvious non-uniformity and no line defect. Partial transformation of the module parts should be ignored.
Fail: No display image, obvious non-uniformity, or line defect.

DATA IMAGE

12. LCM PRODUCT LABEL DEFINE

Product Label style:

35mm

Bar Code ←

A A 6 0 0 1 4 2 1 0 2 6 - 0 0 1 3

Product Name ←

F G 0 7 0 0 G 3 D U S W M G 0 1

10mm

BarCode Define:

A A 6 0014 2 10 26-0013

→ Serial number of the products
Serial number starts from 0000
Every work order is 10K at most

→ Week of production

→ Year of production

→ Storage area

→ Serial number of work order
Serial number starts from 0000 each month

→ Month of work order

→ Year of work order

→ The first 3 numbers of work order

Product Name Define:

```
FG 0700G3   D   U   S   W   M   G 01
                                      └── VERSION: 01
                                  └── RoHS
                          └── View direction & Temp. Range
                              A – Bottom view 6H & Normal temp.
                              B – Bottom view 6H & Wide temp.
                              C–Top View & Normal temp
                              D–Top View & Wide temp.
                              M –All View Angle& Wide temp
                      └── Backlight Color
                          W –White   Y – Yellow Green
                          G – green
                  └── Backlight
                      C–CCFL B/L
                      S –edge light LED B/L
              └── LCD Polarize type
                  N–Negative    S –Super wide view or Excellent W.V
                  M–transmissive  U–Ultra wide view
          └── LCD type
              A –TFT analog
              D –TFT digital
      └── Series code
          0700G3–, 7.0 inch
  └── Model type
      FG–Standard TFT Module
      FX–Custom TFT Module
```

13. PRECAUTIONS IN USE LCM

1. ASSEMBLY PRECAUTIONS
   (1) You must mount a module using holes arranged in four corners or four sides.
   (2) You should consider the mounting structure so that uneven force (ex. Twisted stress) is not applied to the module. And the case on which a module is mounted should have sufficient strength so that external force is not transmitted directly to the module.
   (3) Do not touch, push or rub the exposed polarizers with glass, tweezers or anything harder than HB pencil lead. And please do not rub with dust clothes with chemical treatment.
   (4) Wipe off saliva or water drops as soon as possible. Their long time contact with polarizer causes deformations and color fading.
   (5) Do not open the case because inside circuits do not have sufficient strength.
   (6) Please do not take a LCD module to pieces and reconstruct it.Resolving and reconstructing modules may cause them not to work well.
   (7) Please do not touch metal frames with bare hands and soiled gloves. A color change of the metal frames can happen during a long preservation of soiled LCD modules.
   (8) Please pay attention to handling lead wire of backlight so that it is not tugged in connecting with inverter.

2. OPERATING PRECAUTIONS
   (1) Please be sure to turn off the power supply before connecting and disconnecting signal input cable.
   (2) Please do not change variable resistance settings in LCD module. They are adjusted to the most suitable value. If they are changed, it might happen LCD does not satisfy the characteristics specification
   (3) Be careful for condensation at sudden temperature change. Condensation makes damage to polarizer or electrical contacted parts. And after fading condensation, smear or spot will occur.
   (4) When fixed patterns are displayed for a long time, remnant image is likely to occur.
   (5) Module has high frequency circuits. Sufficient suppression to the electromagnetic interference shall be done by system manufacturers. Grounding and shielding methods may be important to minimize the interference.
   (6) Please consider that LCD backlight takes longer time to become stable of radiation characteristics in low temperature than in room temperature.

3. ELECTROSTATIC DISCHARGE CONTROL
   (1) The operator should be grounded whenever he/she comes into contact with the module. Never touch any of the conductive parts such the copper leads on the PCB and the interface terminals with any parts of the human body.
   (2) The modules should be kept in antistatic bags or other containers resistant to static for storage.
   (3) Only properly grounded soldering irons should be used.
   (4) If an electric screwdriver is used, it should be well grounded and shielded from commutator sparks.
   (5) The normal static prevention measures should be observed for work clothes and working benches; for the latter conductive (rubber) mat is recommended
   (6) Since dry air is inductive to statics, a relative humidity of 50-60% is recommended.

4. STORAGE PRECAUTIONS
   (1) When you store LCDs for a long time, it is recommended to keep the temperature between 0°C-40°C without the exposure of sunlight and to keep the humidity less than 90%RH.
   (2) Please do not leave the LCDs in the environment of high humidity and high temperature such as 60°C 90%RH
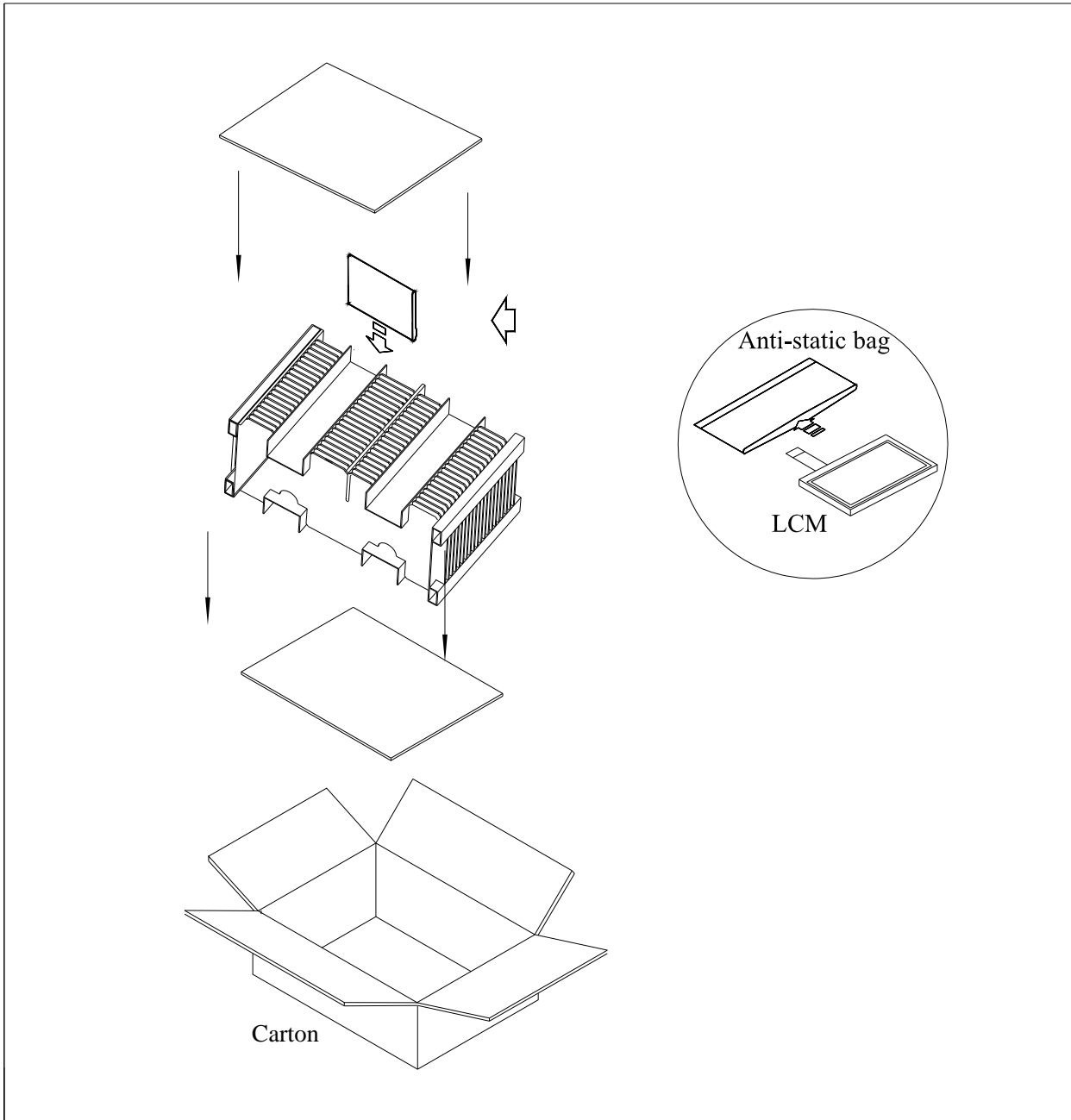   (3) Please do not leave the LCDs in the environment of low temperature; below -20°C.

5. OTHERS
   (1) A strong incident light into LCD panel might cause display characteristics' changing inferior because of polarizer film, color filter, and other materials becoming inferior. Please do not expose LCD module direct sunlight Land strong UV rays
   (2) Please pay attention to a panel side of LCD module not to contact with other materials in preserving it alone.
   (3) For the packaging box, please pay attention to the followings:
   a. Please do not pile them up more than 5 boxes. (They are not designed so.) And please do not turn over.
   b. Please handle packaging box with care not to give them sudden shock and vibrations. And also please do not throw them up.
   c. Packing box and inner case for LCDs are made of cardboard. So please pay attention not to get them wet. (Such like keeping them in high humidity or wet place can occur getting them wet.)

6. LIMITED WARRANTY
   Unless otherwise agreed between DATA IMAGE and customer, DATA IMAGE will replace or repair any of its LCD and LCM which is found to be defective electrically and visually when inspected in accordance with DATA IMAGE acceptance standards, for a period on one year from date of shipment. Confirmation of such date shall be based on freight documents. The warranty liability of DATA IMAGE is limited to repair and/or replacement on the terms set forth above. DATA IMAGE will not responsible for any subsequent or consequential events.

PRELIMINARY

7" RESOLUTION: 800(H) x RGB x 480(V)

NOTE:
1. Tolerance is ±0.3 unless otherwise noted.
2. Module matching connector : HRS FH19S-40S-0.5SH or equivalent.
3. B/L matching connector : HRS FH19S-12S-0.5SH or equivalent.
4. Center brightness: 500 cd/m² (Typ)
5. * is important distances.
6. For RoHS.

IF : 250 mA , VF : 8.7~11.5 V
LED circuit

PIN FUNCTION

1	GND	11	R6	21	B0	31	NC
2	GND	12	R7	22	B1	32	HS
3	VCC	13	G0	23	B2	33	VS
4	VCC	14	G1	24	B3	34	DE
5	R0	15	G2	25	B4	35	NC
6	R1	16	G3	26	B5	36	NC
7	R2	17	G4	27	B6	37	GND
8	R3	18	G5	28	B7	38	GND
9	R4	19	G6	29	GND	39	NC
10	R5	20	G7	30	CLK	40	NC

Detail A
Scale 4:1

Detail B
Scale 4:1

DATE:	09/18/12'	TITLE:	7" TFT Outline Dimension		
DRAWN:					
CHECK:		DWG. NO.	FG0700G3U-G01		
		UNITS M M		REV.	2
APPROVE:		SCALE 1 / 1	SHEET 1 OF 1		

AUTH	DESCRIPTION	DATE	APPROVED
⚠	Modify LED circuit. <ECR 110-D10022>	2013/01/18	
	<< NPDO : 0854 >>		
REVISIONS			

15. PACKAGE INFORMATION

Anti-static bag

LCM

Carton

Item	Size(L*W*H)		Quantity	Note
Master Carton	482*282*279		1	
Quantity Per Master Carton		38		
N . W	5.0 (kg)	G . W	6.5 (kg)	