

# SPECIFICATIONS

## 1. LCD CHARACTERISTICS

Type	: TFT XGA LCD
Size	: 15 inch (38.10cm)
Pixel Pitch	: 0.297mm x 0.297mm
Pixel Format	: 1024 x 768 pixels (XGA)
	RGB Stripe Arrangement
Color Depth	: 6-bit, color(18bits)
Active Video Area	: 304.1mm x 228.1mm
Surface Treatment	: Anti-Glare, Hard Coating (3H)
Backlight Unit	: Four-CCFL (Cold Cathode Fluorescent Lamp)

## 2. OPTICAL CHARACTERISTICS

### 2-1. Viewing Angle by Contrast Ratio $\geq 10$

Left	: 65° typ., 50° min.
Right	: 65° typ., 50° min.
Top	: 45° typ., 30° min.
Bottom	: 60° typ., 45° min.

### 2-2. Luminance : 220 cd/m<sup>2</sup> typ.

### 2-3. Angle at Half Luminance

Left	: 50° min.
Right	: 50° min.
Top	: 45° min.
Bottom	: 30° min.

### 2-4. Contrast Ratio : 400:1 (typ.)

## 3. SIGNAL (Refer to the Timing Chart)

### 3-1. Sync Signal

- 1) Type : Separate Sync. (Horizontal & Vertical)
- 2) Input Voltage Level : Low=0~0.8V, High=2.1~5.5V
- 3) Sync Polarity : Positive or Negative

### 3-2. Video Input Signal

- 1) Type : R, G, B Analog
- 2) Voltage Level : 0~0.714 V
  - a) Color 0, 0 : 0 Vp-p
  - b) Color 7, 0 : 0.467 Vp-p
  - c) Color 15, 0 : 0.714 Vp-p
- 3) Input Impedance : 75  $\Omega$

### 3-3. Operating Frequency

Horizontal	: 31 ~ 69kHz
Vertical	: 56 ~ 85Hz

## 4. POWER SUPPLY

### 4-1. Power Adaptor

Input	: AC 100~240V, 50/60Hz 1.2A-0.6A
Output	: DC 24V 1.5A $\ominus$ — $\oplus$

### 4-2. Power Consumption

MODE	H/V SYNC	VIDEO	POWER CONSUMPTION	LED COLOR
POWER ON (NORMAL)	ON/ON	ACTIVE	less than 36 W	GREEN
STAND-BY	OFF/ON	OFF	less than 3 W	ORANGE
SUSPEND	ON/OFF	OFF	less than 3 W	ORANGE
OFF	OFF/OFF	OFF	less than 3 W	ORANGE
POWER OFF	-	-	less than 3 W	OFF

## 5. ENVIRONMENT

### 5-1. Operating Temperature: 10°C~35°C (50°F~95°F) (Ambient)

### 5-2. Relative Humidity : 10%~80% (Non-condensing)

### 5-3. Altitude : 0~10,000ft (3,030m)

## 6. DIMENSIONS (with TILT/SWIVEL)

Width	: 394 mm (15.51") + Speaker: 64+64mm
Depth	: 161.8 mm (6.37")
Height	: 378.7 mm (14.91")

## 7. WEIGHT (with TILT/SWIVEL)

Net. Weight	: 5.1kg (11.25 lbs) + Speaker: 1 kg
Gross Weight	: 8.2kg (18.08 lbs)

## 8. AUDIO (OPTION)

Input	: Max 700mVrms
S/N	: More than 43dB (at 50mW output, 1kHz)
Distortion	: Less than 2% (at 50mW output, 1kHz)
Amp Output	: 1W+1W (at 1 kHz, THD 20%)
Cross-talk	: More than 30dB (at 50mW output, 1kHz)

## PRECAUTION

### WARNING FOR THE SAFETY-RELATED COMPONENT.

- There are some special components used in LCD monitor that are important for safety. These parts are marked ⚠ on the schematic diagram and the replacement parts list. It is essential that these critical parts should be replaced with the manufacturer's specified parts to prevent electric shock, fire or other hazard.
- Do not modify original design without obtaining written permission from LG or you will void the original parts and labor guarantee.

### TAKE CARE DURING HANDLING THE LCD MODULE WITH BACKLIGHT UNIT.

- Must mount the module using mounting holes arranged in four corners.
- Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
- Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
- Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
- Make certain that treatment person's body are grounded through wrist band.
- Do not leave the module in high temperature and in areas of high humidity for a long time.
- The module not be exposed to the direct sunlight.
- Avoid contact with water as it may a short circuit within the module.
- If the surface of panel become dirty, please wipe it off with a softmaterial. (Cleaning with a dirty or rough cloth may damage the panel.)

#### ⚠ CAUTION

Please use only a plastic screwdriver to protect yourself from shock hazard during service operation.

#### ⚠ WARNING

BE CAREFUL ELECTRIC SHOCK !

- If you want to replace with the new backlight (CCFL) or inverter circuit, must disconnect the AC adapter because high voltage appears at inverter circuit about 650Vrms.
- Handle with care wires or connectors of the inverter circuit. If the wires are pressed cause short and may burn or take fire.

#### ⚠ CAUTION

IF BRIGHTNESS OF THE LCD MODULE DARKEN, REPLACE THE BACKLIGHT ONE OR ALL.

- There is two backlight, must distinguish between the top (upper) and the bottom (lower), and be careful of treatment it.
- MTBF (Mean Time Between Failure) of a backlight is about 25,000 hours.

