T3 Digital

15" TFT LCD TV/MONITOR

LN150X

Owner's Manual

Before operating the unit,
please read this manual thoroughly
and retain it for future reference.

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Safety Precautions

Improper use can result in electric shock and / or fire. In order to prevent any dangers, please read following instructions carefully prior to the installation, operation and clean of the product.

- All instructions of this manual must be read and understood before the product is operated.
- These safety and operating instruction must be kept in safe place for future reference.
- All warnings on the product and in the instructions must be kept in your mind.
- Do not use other cables and/or cords not to be recommended by the manufacturer. Otherwise, it can cause accidents.
- This product should be connected to the only power source specified on the specification label. If you are not sure of the type of power supply used in your home, consult your dealer or local power company.
- The power cord must be routed at the safe place so that the people can not step on it and any objects not to be on it.
- If you plan to use a 12V DC power supply unit other than the AC adapter supplied with the product, make sure the power supply unit provides stable voltage with minimum fluctuations.
- Be careful not to insert any objects into the product through vents or openings. Any objects put inside the product can cause abnoramlly higher voltage of electricity to flow in the circuit by touching internal parts and cuase the danger of electric shock. Be careful not to spill water or liquid on the product.
- Do not attempt to repair the product by yourself but consult qualified service technician. Removing covers can expose you to high voltage and other dangerous conditions.
- If any of following conditions occur, unplug the power cord from the AC outlet, and request a qualified service technician to repair it.
  a. When the power cord or plug has been damaged.
  b. When the liquid has been spilt on the product.
  c. When the product has been exposed to rain or water.
  d. When the product does not operate properly as described in the operating instructions.
  - Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not to be described in the instructions can cause damages.

e. When the product has been droped or damaged.
f. When the product displays with abnormal conditions.
- Whenever you find any abnormalities with thr product, you need to consult service technician.

- In the case that the product needs some components to be replaced, make sure that the service technician handles it with the recommended components by the manufacturer, or those with the same characteristics and performance as the original components.
- Upon completion of service or repair, request the service technician to check with the safety and to ensure that the product is in good condition enough for proper operation.
- Unplug the power cord from the AC outlet if you do not use the product for long period of time.
- Do not use the product near water, such as bethtub, washbasin, kitchen sink and laundry tub, swimming pool and in a wet basement.
- Keep the product away from direct rays of the sun-light.
- When move the product by the cart, more attentions are needed because sudden stops, excessive pulling force and uneven floor surface can cause the product to fall down from the cart.
- The vents and/or some parts to be opened in the cabinet have been designed for ventilation. Be careful not to cover or block these vents and / or opens since insufficient ventilation causes overheating and / or shortening the product life. Do not put the product on the bed, sofa, rug or other similar one with cushion, because they can block the ventilation holes.
- The LCD panel used for this product is made glass which can be broken when the product falls down or impacts are given to it. Be careful not to be injured by the broken glasses when the LCD panel has been broken.
- Keep the product enough far away from heaters like radiators, stoves and any other heat generating products including amplifiers.
- The LCD panel is a highly technological product which has 4, 915, 200 thin film transistors and enables you to enjoy fine picture. Sometimes, a few non-active pixels may appear on the screen as the fixed points with blue, green or red colour but please note these do not affect the performance of your product.

Accessories

• Owner's Manual (×1)

• Monitor Driver Diskette (×1)

• Remote controller (×1)

• Signal Cable (×1)

• Power AC Adapter / AC Cord

Remote Controller

Use the Remote Controller by pointing it toward the remote sensor in the front-bottom of the product. Any objects between the Remote Controller and the sensor may disturb the user's control.

Cautions in using Remote Controller

- Do not expose the Remote Controller to any electric shocks and to liquids. Do not leave it in such places with high humidity.
- Do not install the batteries and place the Remote Controller under direct sunlight.
  The heat from the sunlight may cause deformity of the unit.
- The Remote Controller may not work properly when the remote sensor is under direct sunlight or other strong lights. In such case, turn the product a little to avoid getting direct sunlight or operate the Remote Controller at the distance closer to the sensor.

Batteries

- If the Remote Controller would not work properly , replace the batteries for it.

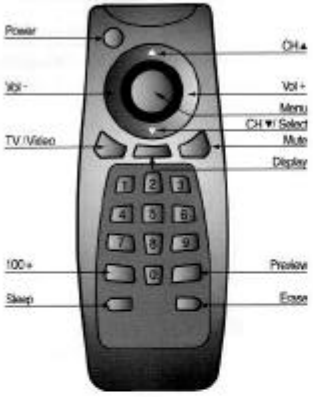
1. Open the battery cover.
2. Put the battries inside the battry cell (Two AAA battries which are included in the accessory box of your product)
   - Find the polarity of the batteries to be correctly connected to the signs (+ and−) in the battery cell.
3. Close the battery cover.

Cautions with batteries

- Improper use of batteries can result in a leakage of chemicals and/or explosion. Be sure to follow the instructions as below.
  - Be sure of the batteries to be correctly connected to the polarity signs (+ and−) in the battery cell.
  - According to each type, the batteries have different characteristics. Do not use different types of batteries together with.
  - Do not use the half-exhausted and brand new batteries together with. It may shorten the battery life and / or may cause the old battery to leak chemicals.

- Remove the batteries as soon as they are exhausted wholly. Leakage chemicals from batteries can cause a rash. If you find chemical leakage, wipe it with dry cloths.
- According to the bad storage conditions, the life of battery supplied by the manufacturer may have sometimes been shorten abnormally.
- When the Remote Controller is not used for long period of time, remove the batteries from the battery cell.

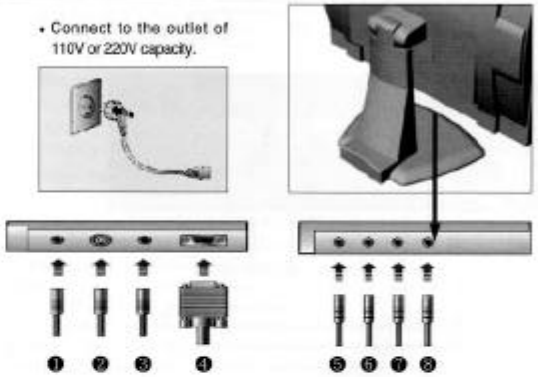
Remote Controller



Power	Power On/Off
CH▲	To change the channel number toward bigger digits.
CH▼/Select	To change the channel number toward smaller digits. At the operation of OSD function, this key is used as "Select" key.
Vol +, -	To control sound volume bigger or smaller.
Menu	To make OSD Menu appear on the screen.
TV / Video	To choose a mode among TV, S-Video, Video, PC.
Display	To make the channel number be displayed on the screen.
Mute	To make the sound gone out.
Digit buttons (1~9)	To get to the channel number by pressing each digit button one time.
Digit buttons (0)	To get to the channel number bigger than 10, but smaller than 100.
100 +	To get to the channel number bigger than 100.
Preview	To see the previous program.
sleep	If you set the "Sleep" time one of OSD function, your TV will power off on time set. (Refer to the page 16)
Erase	To delete the preset channels. (Refer to the page 15)

Cable Connection

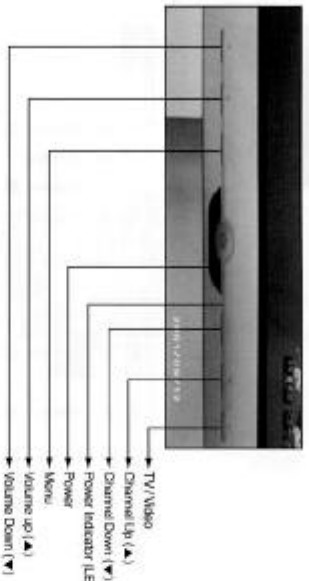
• Connect to the outlet of 110V or 220V capacity.



❶ DC 12V	: Connect the cable to 12V DC terminal with the adapter in the pack, and the other end of the cable to 110V or 220V outlet.
❷ S-VHS	: Connect S-VHS cable to the S-VHS terminal.
❸ AV	: Connect DVD or VCR
❹ PC	: Connect signal cable to the terminals and the other end of cable to PC. "No signal" will appear on the monitor, if it is improperly connected. In the case of using Macintosh branded PC, use the exclusive adapter. (except for G3 or higher)
❺ EAR PHONE	: Connect earphone to the terminal.
❻ – ❼ AUDIO IN (L, R)	: Connect audio signal cable to the terminals (computer, DVD, VCR, or Camcorder)
❽ TV ANTENNA	: Connect the antenna or CATV cable.

User's Control

Controll keys of the main unit



Note : In the monitor mode, all the controls should be through Menu key.

TV/Video — To choose a mode among TV, S-Video, Video, PC.

Channel Up (▲) — To change the channel number toward bigger digits.

Channel Down (▼)/ Select — To change the channel number toward smaller digits.
At the operation of OSD function, this key is used as "Select" key.

Power Indicator (LED) — Power indicator shows if your TV is powered on or off.

Power — Power On / Off

Menu — To make OSD Menu appear on the screen.

Volume Up (▲) — To increase sound volume.

Volume Down (▼) — To decrease sound volume.

Basic Operation TV / S-VIDEO / VIDEO / PC MONITOR

Power On / Off / Standby

■ By Control keys

1. When you put the plugs of the Power Cord to the power outlet, the main unit is in Standby mode and the Power Indicator will flouresce with green colour.
2. When you TV is powered on, the Power Indicator will stop its fluorescing.
3. If you press the Power key once again, main unit will be back to Standby mode and the Power Indicator with flouresce again with green colour.
4. Whenever you press any key of Remote Controller, the LED lens Power Indicator will flicker one time with green colour.

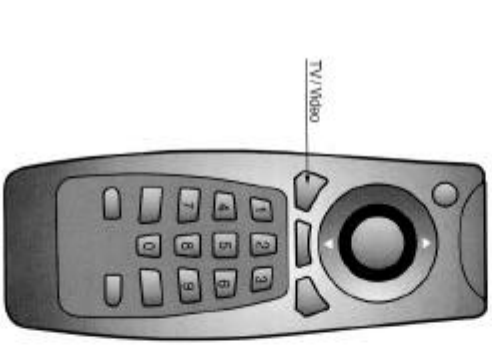
■ By Remote Controller

1. While the Power Cord being connected to the power outlet (Main unit is in Standby mode), press the Power button of Remote Controller to make main unit turned on and LED lens will stop its fluorescing.
2. If you press power button once again, the LED lens will restart its fluorescing with green colour and it will be back to Standby mood.

How to choose TV/S-Video/ Video / Monitor mode

■ By using "TV/Video" key, you can choose a mode among TV, S-Video, Video or PC Monitor modes.

1. Your product has been set to the TV mode at the factory and so when you power it on at first, it will be in TV mode.
2. When you press TV/Video key once, the current TV mode changes to S-Video mode.
   At the 2nd press of TV/Video key, it will change to Video mode.
   At the 3rd press of TV/Video key, it will change to PC Minitor mode.
   At the 4th press of TV/Video key, it will be back to TV mode.



12

On Screen Display (OSD)

A. At TV mde

OSD FORMAT

IMAGE QUALITY

CH. SET

TIMER

AUDIO

There are 4 OSD Formats at TV Mode as above illustrations show.

- If you press "Menu" button once, the first Format "Image Quality" will appear on the screen.
- At the 2nd press of "Menu" button, the Format changes to "CH Set".
  At the 3rd press of "Menu" button, the Format changes to "Timer".
  At the 4th press of "Menu" button, the Format changes to "Audio".

IMAGE QUALITY

- Move cursor to the Icon you want to adjust by pressing "Vol Up (▲)", "Vol Down (▼)" buttons.
  → Press "select" key and the colour of the Bar in the OSD Format will change to Blue from Black.
  → Adjust the Menu data by pressing "Vol Up (▲)", "Vol Down (▼)" buttons.

Note : After moving cursor to the Icon, if you press "Select" button, the colour of black bar changes to blue and it represents "Being ready for adjustment of Menu data."

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a. Brightness

Menu→Select → Press "Select" button and the colour of the bar changes to Blue from Black.
→Adjust the Brightness by pressing "Vol Up(▲)" "Vol down(▼)" buttons.
→Press "select" button or leave it for 3 seconds.

b. Contrast

Menu→Select → Press "Select" button and the colour of the bar changes to Blue from Black.
→Adjust the Contrast by pressing "Vol Up(▲)" "Vol down(▼)" buttons.
→Press "select" button or leave it for 3 seconds.

c. Colour

Menu→Select → Press "Select" button and the colour of the bar changes to Blue from Black.
→Adjust the Colour by pressing "Vol Up(▲)" "Vol down(▼)" buttons.
→Press "select" button or leave it for 3 seconds.

d. HUE HUE

* You can choose your favourable colour between Red and Blue for the screen back ground.

Menu→Select HUE → Press "Select" button and adjust the screen back ground colour by using "Vol Up(▲)" "Vol down(▼)" buttons.
→Press "select" button or leave it for 3 seconds.

e. Sharpness SHP

Menu→Select SHP → Press "Select" button and adjust the sharpness by using "Vol Up(▲)" "Vol down(▼)" buttons.
→Press "select" button or leave it for 3 seconds.

CH. SET

a. TV Select TU

Menu→Select TU → Press "Select" button and the mode will change to TV from CATV or to CATV from TV.

b. CH. Auto Set

Menu→Select → Press "Select" button and all the channels are set automatically.
→ After the completion of channel setting, it returns to primary screen automatically.

c. CH. Manual Set CH

Menu→Select CH → Press "Select" button and move cursor to "ERASED" or "ADDED" by using "Vol Up(▲)" "Vol down(▼)" buttons.
→Press "Select" button and the present channel no. will be deleted(erased) or added.

* When you select "ERASED", the deleted channel no. will be shown for 1 second with Red colour and when you select "ADDED", the added channel no. will be shown on the screen for 1 second with Green colour.

d. CH Fine Tuning TUNE

Menu→Select TUNE → Press "Select" button and the colour of the bar change to Blue from Black.
→ Adjust the screen to the most favourable condition by using "Vol Up(▲)" "Vol down(▼)" buttons.
→ Press "Select" button or leave it for 3 seconds.

TIMER

a. Present Time

Menu → Move cursor to "Time" by using "Vol Up(▲)" "Vol down(▼)" buttons.
→ Press "Select" button and the "Time" is ready for adjustment.
→ Set the present time (AM 01~PM 12) by using "Vol Up(▲)" "Vol down(▼)" buttons.
→ Press "Select" button and the "Minute" is ready for adjustment.
→ Set the present minute (01~60) by using "Vol Up(▲)" "Vol down(▼)" buttons.
→ Press "Select" button and the cursor returns to "Time"

b. On Time

Menu → Move cursor to "On Time" by using "Vol Up(▲)" "Vol down(▼)" buttons.
→ Press "Select" button and the "Time" is ready for adjustment.
→ Set the time (AM 01~PM 12) by using "Vol Up(▲)" "Vol down(▼)" buttons.
→ Press "Select" button and the "Minute" is ready for adjustment.
→ Set the minute (01~60) by using "Vol Up(▲)" "Vol down(▼)" buttons.
→ Press "Select" button and the cursor returns to "On Time"

c. Off Time

Menu → Move cursor to "Off Time" by using "Vol Up(▲)" "Vol down(▼)" buttons.
→ Press "Select" button and the "Time" is ready for adjustment.
→ Set the time (AM 01~PM 12) by using "Vol Up(▲)" "Vol down(▼)" buttons.
→ Press "Select" button and the "Minute" is ready for adjustment.
→ Set the minute (01~60) by using "Vol Up(▲)" "Vol down(▼)" buttons.
→ Press "Select" button and the cursor returns to "Off Time"

d. Sleep

Menu → Move cursor to "Sleep".
→ Press "Select" button and your TV is ready for adjustment.
→ Set the period of time for working by using "Vol Up(▲)" "Vol down(▼)" buttons. (You can set the period time by 10 minutes interval like 10, 20, 30, ····· 90 minutes)
→ Press "Select" button or leave for 3 seconds.

AUDIO

a. Volume VOL

Menu→Select VOL → Press "Select" button and the colour of the bar changes to Blue from Black.
→ Adjust the Volume by pressing "Vol Up(▲)" "Vol down(▼)" buttons.
→ Press "Select" button or leave it for 3 seconds.

b. Balance BAL

Menu→Select BAL → Press "Select" button and the colour of the bar changes to Blue from Black.
→ Adjust the Balance by pressing "Vol Up(▲)" "Vol down(▼)" buttons.
→ Press "Select" button or leave it for 3 seconds.

c. Treble TRB

Menu→Select TRB → Press "Select" button and the colour of the bar changes to Blue from Black.
→ Adjust the Treble by pressing "Vol Up(▲)" "Vol down(▼)" buttons.
→ Press "Select" button or leave it for 3 seconds.

d. Bass BASS

Menu→Select BASS → Press "Select" button and the colour of the bar changes to Blue from Black.
→ Adjust the Bass by pressing "Vol Up(▲)" "Vol down(▼)" buttons.
→ Press "Select" button or leave it for 3 seconds.

e. Mute MUTE

Menu→Select MUTE → Press "Select" button and the sound will be gone out.

B. At S-Video or Video mode

Your TV can display the signals from PC as well as from Composite Video (or S-Video), too. If you press TV/Video button once, the current TV mode changes to S-Video mode. If you press it once again, it changes to Video mode.

* The choice of Video or S-Video mode is dependant on where the Video cable has been connected, between Video or S-Video jack of the main unit.

a. At the Video or S-Video mode, if you press "Menu" button once, "Image Quality" will appear on the screen with 5 items for your choice like Brightness, Contrast, Colour, HUE (choice of screen back ground colour between Red and Blue), and Sharpness.

Menu→Select one of items.
→Press "Select" button and the colour of the bar changes Blue from Black.
→Adjust the condition of the chosen item by pressing "Vol Up(▲)" "Vol down(▼)" buttons.

b. At the Video or S-Video mode, if you press "Menu" button twice, "Audio" will appear on the screen with 5 items like Volume, Balance, Treble, Bass, Mute.

Menu→Select one of items.
→Press "Select" button and the colour of the bar changes Blue from Black.
→Adjust the condition of the chosen item by pressing "Vol Up(▲)" "Vol down(▼)" buttons.

C. At Monitor mode

OSD FORMAT

BRIGHTNESS

Menu→Select → Press "Select" button and the colour of the bar will change to Blue from Black.
→Adjust the Brightness by pressing "Vol Up(▲)" "Vol down(▼)" buttons.
→Press "select" button.

CONTRAST

Menu→Select → Press "Select" button and the colour of the bar will change to Blue from Black
→Adjust the Brightness by pressing "Vol Up(▲)" "Vol down(▼)" buttons.
→Press "select" button.

COLOUR

Menu→Select →Move the cursor to the favourable color temperature (6500K, 9300K, USER)
→Press the "select" button.

WHEN YOU CHOSE USER MODE
- Move the cursor to "USER" and press the "select" button.
- Move the cursor to a colour among Red, Green, Blue by pressing "Vol Up(▲)" "Vol down(▼)" buttons.
- Adjust the colour to your favourable condition.
- Press "select" button to finish the adjustment.

■ TO EXIT FROM OSD

Click "EXIT"

■ INFORMATION ABOUT PC SIGNAL

Menu→Select → To see the whole pages one by one, press "Vol Up(▲)", "Vol Down(▼)" buttons.
- This is showing the resolution, vertical frequency of the signal which your monitor is receiving from PC.

■ CLOCK FUNCTION

- Sometimes disqualified video cards are sold in the market and when the user is using these disqualified video cards for PC, the signal released from PC is in irregularity. It causes the size of viewing area to be shrinked and some part of the picture to be unclear in the monitor. These problems can be sorted out by user's control through "CLOCK FUNCTION".

Menu→Select → Move the cursor to CLK or PH by pressing "Vol Up(▲)"-"Vol down(▼)" buttons.
→ Press "Select" button and by using "Vol Up(▲)" "Vol down(▼)" buttons, adjust it.

① CLK : The size of viewing area can be adjusted.
② PH : The unclear part of the picture can be cleared.

■ ADJUSTMENT OF SCREEN POSITION

Menu→Select
→ Move the cursor to a mode between H-Position and V-Position
→ Press "Select" button and then adjust the screen position by pressing "Vol Up(▲)", "Vol Down(▼) buttons.
→ Press "select" button after adjustment or leave it for 3 seconds.

① Select to change the H-Position

② Select to change the V-Position

SELECTION OF LANGUAGE

Menu→Select →Move the cursor to the desirable language (Eng / German / French / Italian / Spanish) by pressing "Vol Up(▲)", "Vol Down(▼)" buttons.
→Press the "select" button to set the chosen language.

OTHERS ABOUT OSD

Menu→Select OSD →Move cursor to a item of OSD Menu and then press "Select" button.
→ Adjust the data of the selected item by pressing "Vol Up(▲)", "Vol Down(▼)" buttons.

① Select and set the time for OSD to remain on the screen, by pressing "Vol Up(▲)", "Vol Down(▼)" buttons.

② Select and move the OSD position to upper or down by pressing "Vol Up(▲)", "Vol Down(▼)" buttons.

③ Select and move the OSD position to left or right by pressing "Vol Up(▲)", "Vol Down(▼)" buttons.

④ Select SHP and adjust the sharpness of the screen by pressing "Vol Up(▲)", "Vol Down(▼)" buttons.

How to install monitor driver

When the monitor driver is installed, the resolution and frequency of your monitor is automatically set to the most suitable mode for users and it provides the clearest picture. The monitor driver is included in the box of your product.

< The Programm for Installation of WINDOWS SOFTWARE >
This section shows how to install the monitor driver for Windows software (WINDOWS 95/98/2000).
Refer to the following procedures.

Caution : Check if your monitor is compatible type to the driver before you install it.
(If the Driver is not proper for your monitor, there can be the abnormal fluctuation of the frequency or bad resolution)

1) Automatic Installation

Put the diskette in the deck, and click 'install exe'.
(By using "search" function)

Click the model no. of your monitor and then click "OK"

When "insert diskette" appears on the screen, click "OK".
When the words "monitor is successfully installed" appears on the screen, click "OK"

When "Restart the system" is shown on the screen,
Click "Yes" for completion of whole process.

2) Manual Installation

- On the screen of WINDOWS Software, put the Mouse point somewhere on the screen, and click "Registration Information" by using right side button of your Mouse.

- Click "monitor" and click "change".
- Click "next" in the updated master window.
- After making a driver list, select the desired driver and click "next".
- After inserting the diskette, set the directory and click "ok"
  (If you are not sure of the driver route location, click "find"
- When the words "select model" appears on the screen, select the model no. of your product and click "next".
- When the words "completed installation of selected driver" appears on the screen, click "finish", "close", "ok" by turn and then exit.

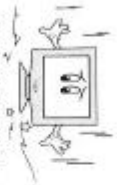
Standard signal timing chart for PC monitor

If the signals released from the computor are same as following matrix, "standard pattern of signals", the picture is automatically set to the best conditon. If the released signals are not same, the picture will not appear on the screen but only the power indicator will work.
Thus it is important that you set the signals same as following matrix at first by refering to the Video Card Guide.

	Resolution	Frequncy			Polarity	
		Horizontal (KHz)	Vertical (Hz)	Transmission speed (Mb)	H	V
1	640×350	31.5	70.0	25.2	+	−
2	720×400	31.5	70.1	28.3	−	+
3	640×480M	31.5	59.9	25.2	−	−
4	640×480	31.5	59.9	25.2	−	−
5	640×480M	35.0	66.7	30.2	−	−
6	640×480	37.9	72.8	31.5	−	−
7	640×480	37.5	75	31.5	−	−
8	800×600	35.2	56.3	36	+	+
9	800×600	37.9	60.3	40	+	+
10	800×600	48.1	72.2	50	+	−
11	800×600	46.9	75	49.5	+	+
12	832×624M	49.7	74.5	57.3	−	−
13	1024×768	48.4	60	65	−	−
14	1024×768M	48.8	60	64	−	−
15	1024×768	56.5	70.1	75	−	−
16	1024×768M	60.2	74.9	80	−	−
17	1024×768	60.0	75	78.8	+	+

Precaution

Please pay attention to the precautions and follow them for the safety of users and to keep the best condition of the product.



Do not use damaged plugs or worn out outlets (Danger of electrification)

Be careful with the product not to be impacted crisply

Under bad weather or when you are not using the product for a long period of time, take the plug out of the outlet to prevent danger of electrification

Do not try to disassemble, repair and / or renovate the product by yourself but consult the service centre or qualified technician

Be careful with the cord not to be bended or put under heavy objects to prevent danger of electrification or fire.

Do not leave the product in humid and watery places to prevent danger of electrification

Cleaning

When you want to clean the product, take the plug out of the outlet at first. Polish it with soft and clean cloths and then with damp cloths.
Do not use chemical cleaners, like benzene, alcohol or others.

Specification

LCD (panel)	Screen Size	15 Inch (Diagonal Length)
	Visible Screen Size	304.1(H) × 228.1(V)(15 inch diagonal)
	Pixel Pitch	0.297(H) × 0.297(W)
	Type	a-si TFT-LCD(Liquid Crystal Display)
	Visual Angle	Upper70(Lower70(Left55(Right60
Sync	Horizontal Frequency	30~60 KHz(Auto Set)
	Vertical Frequency	56~75 Hz(Auto Set)
Color Display	Displayable colour	16.7 M Colour
Input Signal	Input Signal	Analog 0.7Vpp Positive (75Ω)
Video	Video Signal	NTSC
	Audio Signal	MONO / STEREO
	Video Type	CVBS, S-VHS, COMPOSITE VIDEO
Sync Signal	Separate Sync Signal	TTL LEVEL POSITIVE OR NEGATIVE
	Composite Sync Signal	TTL LEVEL POSITIVE OR NEGATIVE
	Green Video + Composite	Composite sync : Vp-p Negative (Video 0.7vp-p positive)
Power / Voltage	Voltage Use	Row 110~240V, 60Hz/50Hz DC 12V/3A
Energy Consumption	Regular Energy Consumption	Maximum 33W
	Safe Mode Consumption	Under 3W
Movement Condition	Temperature	-20℃~40℃
	Humidity	10%~85%
Size	Excluding BASE	440×55×298
	Including BASE	518×260×466
Weight	Net	5.7 kg(11 lbs)
	Gross	6.8 kg(15.4lbs)

The above specification can be changed for quality improvement at manufacturer's discretion.

T3 Digital

■ Head Office
150-812 3rd Fl. Sungwon bld. 651
Drerim-3dong. Youngdungpo-Gu.
Seoul. Korea
TEL: +82-2-831-7831~2
FAX: +82-2-831-7969
http://www.t3didit.com

■ Factory

■ USA Agency Office
296 Brokaw Road, Santa clara,
CA 95050, USA
TEL : 1-408-910-9800
FAX : 1-408-919-9811
E-mail : ycsong@wintroninc.com

■ German Agency Office
Kronprinzenstr, 90,
40217 Dusseldorf, Germany
TEL : 49-211-9385854
FAX : 49-211-9385856
E-mail : baik.trd@t-online.de

FCC Information

FCC Part 15.105

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential Installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions. May cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experience radio / TV technician for help

FCC Part 15.21

Changes or modifications not expressly approved by the party responsible for compliance Could void the user`s authority to operate the equipment