



USER'S Manual



**NGLT104WPA
NGLT150WPA
LCD TV / Monitor
(IP67 Grade)**

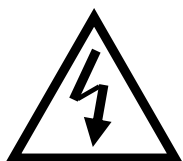
This Manual is revisable without further notice

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Safety Precautions

TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK COVER.

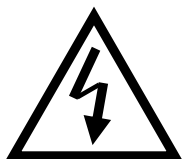


CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE
PERSONAL



The symbol is intended alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Operating Safety

Operating Safety

- Use only factory supplied power adapter and connector Assemblies to operate the TV monitor.
- When a user install the TV Monitor himself, read the "INSTALL GUIDE" before installation.
- Do not install power outlet in a hot or humid place, or where there is excessive dust or vibration.
- Do not install the TV Monitor in a hot place or where is excessive vibration.
- If a **chemical liquid** like acid or a volatile solvent fall on the front bezel or back cover, have it checked by a **qualified technician** before operating again.
- Do not open the back cover if a user opens the back cover, the TV Monitor is to be **leak**.
- Do not clean a front bezel with a **strong volatile solvent**.
- Do not spray on a front bezel of TV Monitor with water or any liquid **over 80°C**.
- Do not use under condition of **5 feet (about 1.5 m)** below a depth.
- Do not thrust a **steel chop stick or a sharp solid object** into the speaker grill on a front bezel.
- Do not spray on the TV Monitor with any liquid before installation completely.
- Do not try to repair the unit by yourself. Opening cover will lead to serious electric-shock or other danger.

Packing

- | | |
|---------------------|-----|
| ● LCD TV | 1pc |
| ● Remote controller | 1pc |
| ● Power adapter | 1pc |
| ● User's manual | 1pc |
| ● Power cord | 1pc |



TV



Power Adapter



Remote Controller



User's manual



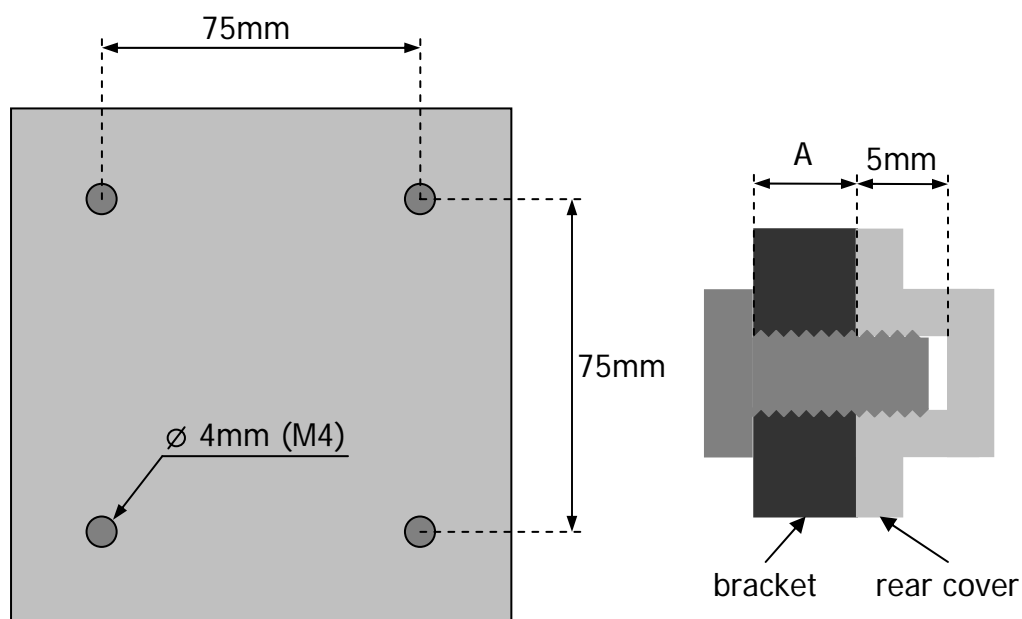
Power Cord

Wall mounting

Installing VESA compliant mounting devices

1. Align the mounting interface pad (75mm × 75mm hole spacing) with the holes in the television's rear cover mounting pad.
2. Secure bracket with the four screws (Ø 4mm : M4) that came with the VESA mounting device.

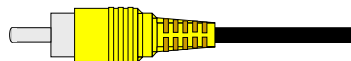
Note : The length of screws should be within $A+5\text{mm}$.



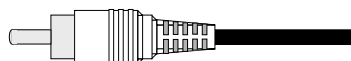
Wiring

1. AV Connector

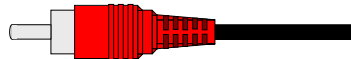
Video In CVBS (Yellow)



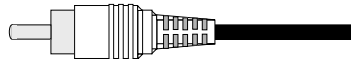
Audio In Left (White)



Audio In Right (Red)



Speaker Out Left (White)



Speaker Out Right (Red)



2. S-Video Connector



3. D-SUB(PC) Connector (15" Only)



4. Antenna Jack

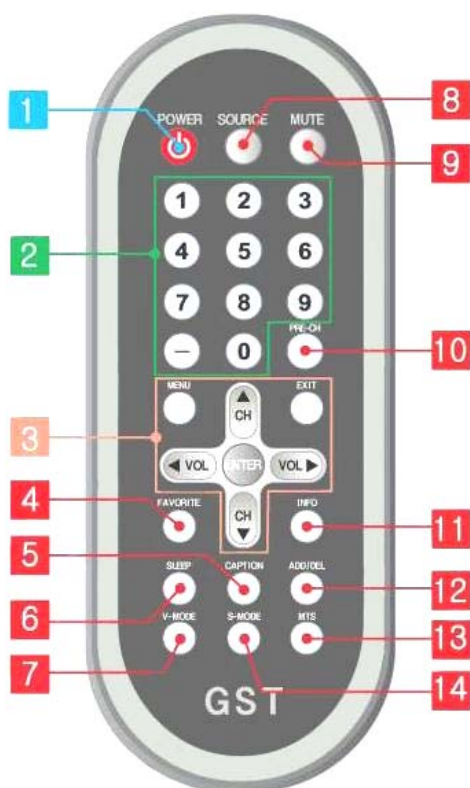


5. DC 12V Power Jack



Make sure check the audio and video source wiring before **WIRING CONNECTION**

Remote Controller



- 1 Power**
- 2 Channel** (Main number "—" Sub number)
- 3 Menu, Enter, Exit, up, down, right, left**
Function selection and adjustment
- 4 Favorite Channel**
Favorite channel selection
- 5 Caption Options**
- 6 Sleep Timer**
(30/60/90 min.)
- 7 Video Mode**
Soft/sharp/standard screen
- 8 TV/Input Source**
TV, Composite , S-video
- 9 Mute**
To silence TV
- 10 Previous channel**
Previous channel selection
- 11 Information**
Currently watching channel, program info, and the current input source info
- 12 Manual Channel Setting**
Edit channel (viewable, Not viewable, favorite)
- 13 MTS** (Multi-channel Television Sound)
- 14 S-Mode**
Music, movie, sports, standard

Basic Operations

Note

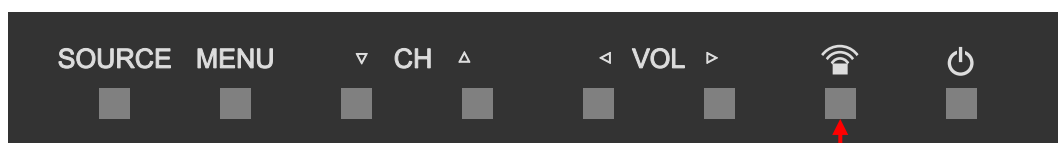
The buttons on the front bezel are designed with infrared technology; you can control by touching each button only not pressing.

1. POWER ON / OFF



To turn power on, put your finger on the "POEWR" button. A power-indicate green lamp turn on and you can see a signal on the screen.

When you want to turn off, put your finger on the "POWER" button again.



Remote IR
SENSOR

2. MENU ACCESS

MENU



To adjust the screen quality or another functions, put your finger on the "MENU" button. The OSD will appear on center of the screen.

When you desire to access sub-menu, put your finger on the "▶" button and sub-menu will be available.

When you desire select your Sub-menu, put your finger on the button "▼" or "▲"

When you put your finger on the "MENU" button again, the OSD disappear or escape from the SUB-MENU.

Basic Operations

3. VIDEO SOURCE SELECTION

SOURCE



To select TV, Video, S-Video and PC, put your finger on the "SOURCE" button. OSD, "TV" or other functions appear on the left upper side of the screen in turn whenever touch "SOURCE" button.

4. TV CHANNEL SELECTION

▼ CH ▲



When you desire select your favorite TV channel, put your finger on the "CHANNEL" button "▼" or "▲"

5. AUDIO VOLUME CONTROL

◀ VOL ▶



When you desire control the audio volume, put your finger on the "VOLUME" button "◀" or "▶"

Basic Operations

6. OSD Window



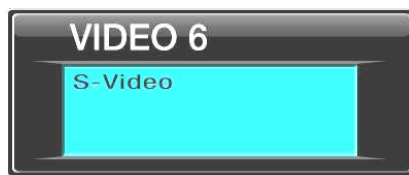
Channel info :

Push the OK button of remote control, basic info on the current channel is displayed.



Program info :

Push info key of remote control, and more detailed info on input signals and additional info including time are shown.



Outside input :

Push each input key/outside input of remote control, input signals are shown on the screen with related info. (TV, Composite, S-video)



Video Mode :

Soft/sharp/standard screen



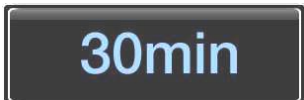
Audio Mode:

Music/movie/sports/standard audio



Audio :

Showing the current status of audio signal (stereo/mono)



Sleep Timer :

Off, 30/60/90 min.

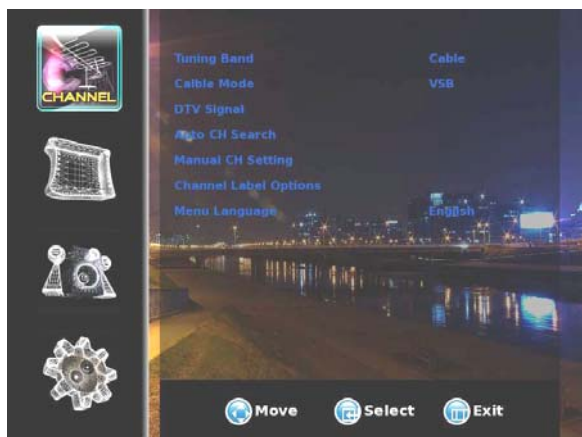


Mute :

Silence

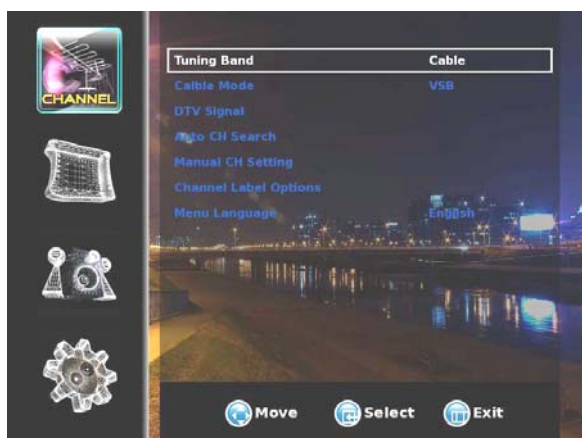
Menu Operations

1. Channel Menu



- Tuning Band
- Cable Mode
- DTV Signal
- Auto Channel Search
- Manual Channel Set
- Channel Labels
- Menu Language

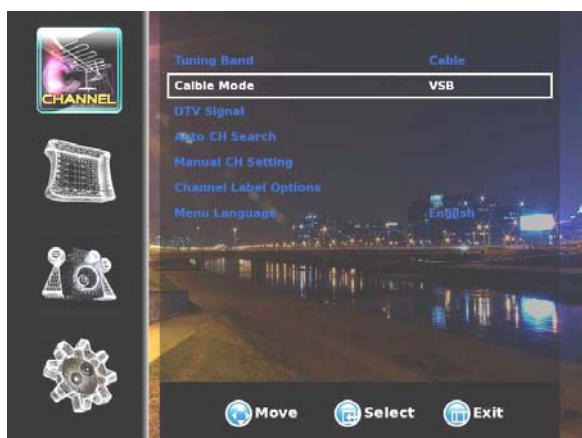
Select Main Menu and push up/down buttons of remote control to go to Sub-Menu. Push the Enter button to move to Sub-Menu Window from Main Window.



Tuning Band

◀▶ → CHANNEL → ▲▼ →
Tuning Band → AIR → CABLE →
HRC → IRC → CABLE AUTO → Exit

Push the Enter button to change Tuning Band. Set Tuning Band to antenna when a terrestrial (indoor/outdoor) antenna is used.

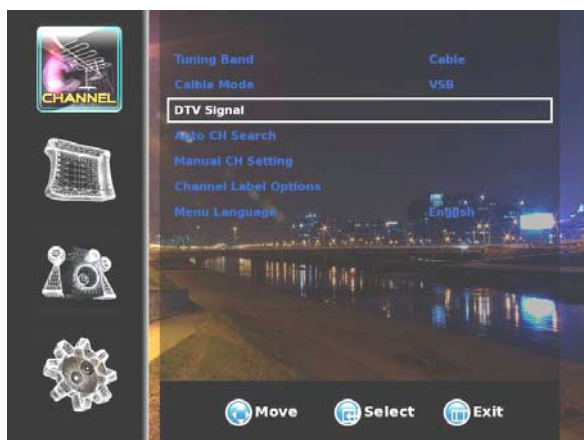


Cable Mode

◀▶ → CHANNEL → ▲▼ →
Cable Mode → VSB → QAM → Exit

Push the Enter button to change Cable Mode. As for digital cable, VSB/QAM is supported depending on transmission system. When QAM is set, 64/256 QAM is automatically detected and set.

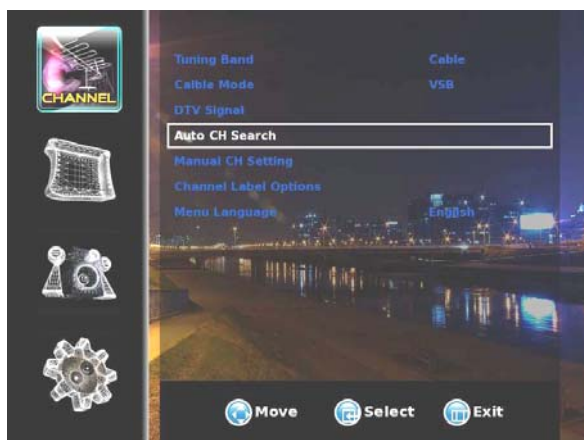
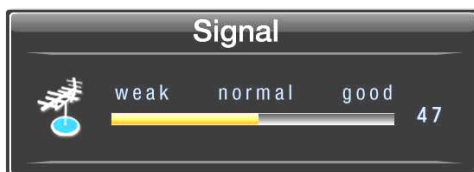
Menu Operations



DTV Signal

◀▶ → CHANNEL → ▲▼ →
DTV Signal → Select → Exit

Move highlight bar to DTV Signal menu and push the OK button. And you will see Signal Window which shows the signal strength (weak/normal/good).

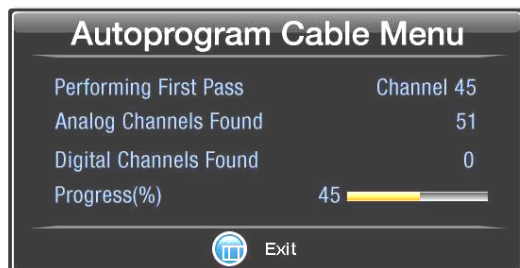


Auto CH Search

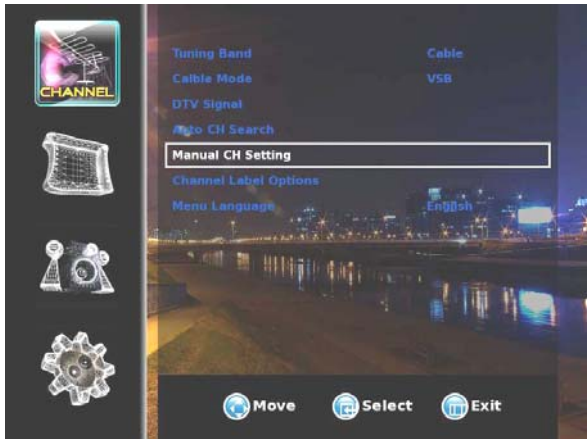
◀▶ → CHANNEL → ▲▼ →
Auto CH Search → Select → Exit

Push the Enter button, and broadcasting frequency is automatically searched and saved. The search starts from analog broadcasting(NTSC) to digital (VSB/QAM), and it takes 2~4 min. Channel numbers are allocated for weak signals from analog broadcasting.

As for digital, however, weak signals or signals without broadcasting info are ignored.



Menu Operations



Manual CH Setting

◀▶ → CHANNEL → ▲▼ →
Manual CH Setting → Select → Exit

It helps to edit all searched channels (save/delete/prefer).
Save → Delete → prefer
(by the Enter setting)



Move to a channel you want by using "To move" keys. Push red OK button below to select.
Registered channels can be deleted without needing to remember the channels.
To delete, save and prefer the channel, use "To move" Key to move to blue-colored channel and push the OK button.

Menu Operations



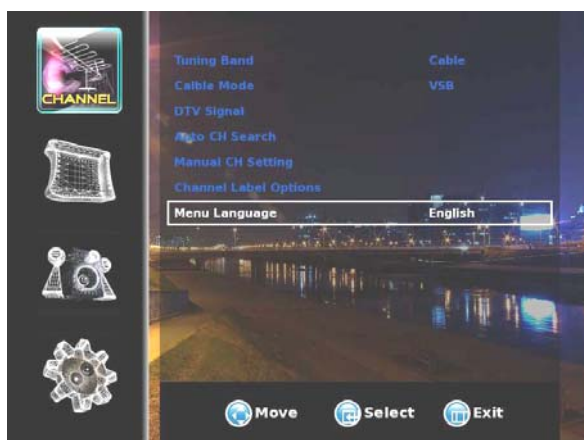
Channel Labels Options

◀▶ → CHANNEL → ▲▼ →
Channel Labels Options → Select →
Exit

Push the Enter button, you'll see
channel Labels Options.



You can change registered channels
by using "To change" key.
The name of registered channels
can also be changed by moving to
blue-colored names using "To
move" key and then change using
"To change" key.
Analog channels are shown as ----
because there is no channel name
info. Digital channels without
channel info, is also displayed as ----.
Some channels of digital
broadcasting may be misnamed.



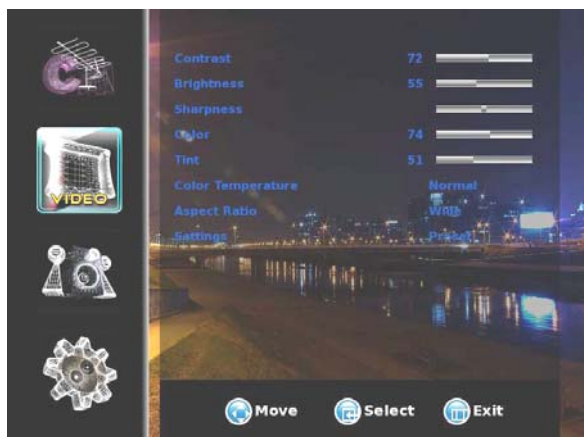
Menu Language

◀▶ → CHANNEL → ▲▼ →
Menu Language → Select →
English → Spanish → French → Exit

Push Enter and select Menu
Language (English, French and
Spanish).
Menu Language changes as you
select, but main menu remains in
English.

Menu Operations

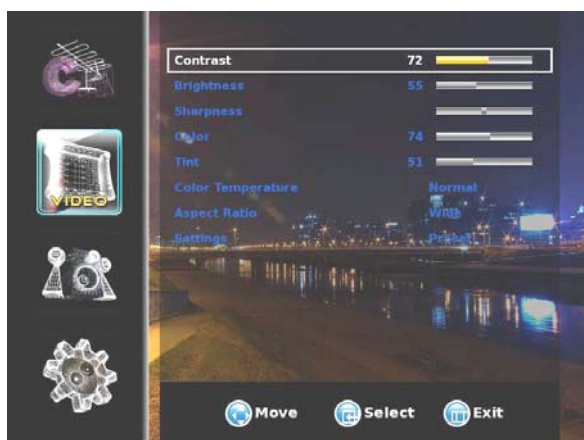
2. Video Menu



- **Contrast**
- **Brightness**
- **Sharpness**
- **Color**
- **Tint**
- **Color Temperature**
- **Aspect Ratio**
- **Setting**

To go to Sub-Menu, select a item on the Main Menu and then move to Sub-Menu using up/down keys of remote control.

Move menu bar to the sub-menu item you want to adjust, and then push the OK button of the remote control to move to Sub-Menu Window from Main Menu Window.



Contrast

◀▶ → VIDEO → ▲▼ →
Contrast → Select

Press the Enter button and you'll see contrast.



Adjust contrast using right/left key.

To go back to Main Menu Window, push Menu key.

Menu Operations



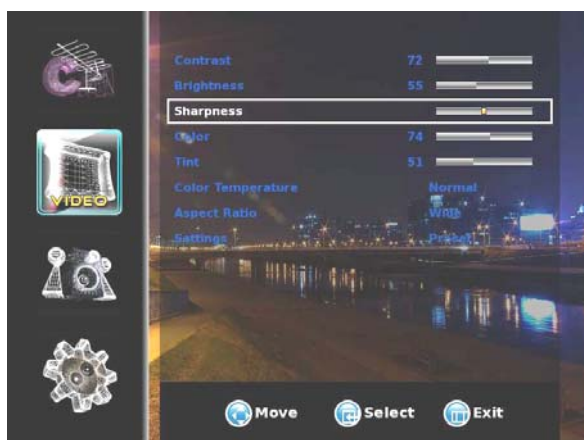
Brightness

◀▶ → VIDEO → ▲▼ →
Brightness → Select

Press the Enter button and you'll see brightness.



Adjust Brightness using right/left key.



Sharpness

◀▶ → VIDEO → ▲▼ →
Sharpness → Select

Press the Enter button and you'll see sharpness.



Adjust Sharpness using right/left key.

Further you go left, more the screen softens, and further you go right, more the screen sharpens.

<Notice> When sharpness is too high, video noise soars in some videos which may cause problems in image quality. Normal setting is recommended.

Menu Operations



Color

◀▶ → VIDEO → ▲▼ →
Color → Select

Press the Enter button and you'll see Color.

Adjust Color using right/left key.

As the number decreases, the screen changes from colored to black & white one.



Tint

◀▶ → VIDEO → ▲▼ →
Tint → Select

Press the Enter button and you'll see Tint.

Adjust the color more naturally by changing it to more red/green one.

Menu Operations



Color Temperature

◀▶ → VIDEO → ▲▼ →

Color Temperature → Normal → Warm Color → Cool Color → Exit

Press the OK button and adjust Color Temperature.

(Color Temperature supports normal/warm/cool colors)

<Note> Color Temperature does not mean the same color temperature as 6500k.



Aspect Ratio

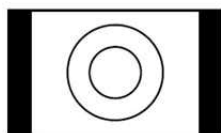
◀▶ → VIDEO → ▲▼ →

Aspect Ratio → Normal(4:3) → Wide(16:9) → Cinema → Exit

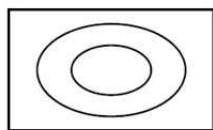
Press the Enter button to change Aspect Ratio.

Aspect Ratio supports normal/wide/cinema modes.

<Notice> The aspect ratio of analog channels is wide(16:9) at default. If it changes to normal(4:3), you can see 4:3 screen. However, digital channel is always wide(16:9). Although it is changed to normal (4:3), it will continue to display as wide(16:9).



Normal Mode



Wide Mode



Cinema Mode

Menu Operations



Setting

◀▶ → VIDEO → ▲▼ →
Setting (Reset) → Select

Press the Enter button,
and the setting will be reset to
factory default.

<Warning> When you execute
the menu, all video-related values
which were previously set resets to
factory default.

Menu Operations

3. Audio Menu



- Audio Language
- Bass
- Treble
- Balance
- Digital Audio Output
- TV speakers
- Setting

To go to Sub-Menu, select a item on the Main Menu and then move to Sub-Menu using up/down keys of remote control.

Move menu bar to the sub-menu item you want to adjust, and then push the OK button of the remote control to move to Sub-Menu Window from Main Menu Window.



Audio Language

◀▶ → Audio → ▲▼ →
Audio Language → Select →
Select → Exit

Audio Language supports digital broadcasting audio as digital Broadcasting include several kinds of audio.

Select preferred language among various languages from broadcasting stations, and push Enter button.

<Note> In some digital channels, audio language is not English although English is set as audio language. It can be regarded as an error in terms of broadcasting information, but there should not be any problem functioning.

Menu Operations



Bass

◀▶ → Audio → ▲▼ →
Bass → Select

Press the Enter button and you'll see bass.



Adjust bass by using right/left keys.



Treble

◀▶ → Audio → ▲▼ →
Treble → Select

Press the Enter button and you'll see treble.



Adjust Treble by using right/left keys.

Menu Operations



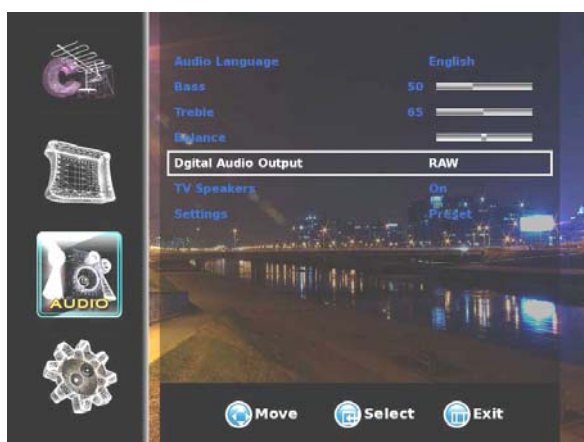
Balance

◀▶ → Audio → ▲▼ →
Balance → Select

Press the Enter button and you'll see balance.



Adjust speaker balance by using right/left keys.



Digital Audio Output

◀▶ → Audio → ▲▼ →
Digital Audio Output → RAW →
PCM → Exit

Push the Enter button, and it changes to PCM or RAW.

RAW is default in digital broadcasting.

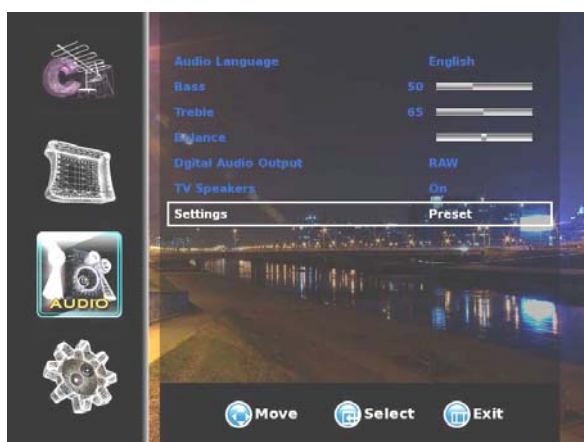
Menu Operations



TV Speakers

◀▶ → Audio → ▲▼ →
TV Speakers → Select → Exit

Push the Enter button, and it changes to ON or OFF.



Setting

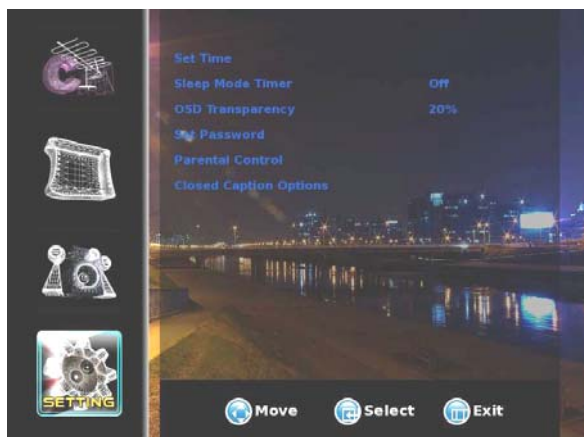
◀▶ → Audio → ▲▼ →
Setting (Reset) → Select

Press the Enter button,
and the setting will be reset to
factory default.

<Warning> When you execute
the menu, all audio-related values
which were previously set resets to
factory default.

Menu Operations

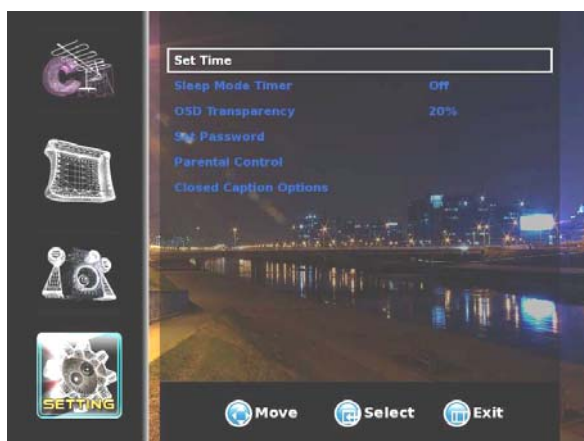
4. Setting Menu



- Set Time
- Sleep Mode Timer
- OSD Transparency
- Set Password
- Parental Control
- Closed Caption Options

To go to Sub-Menu, select a item on the Main Menu and then move to Sub-Menu using up/down keys of remote control.

Move menu bar to the sub-menu item you want to adjust, and then push the OK button of the remote control to move to Sub-Menu Window from Main Menu Window.



Set Time

◀▶ → Setting → ▲▼ →
Set Time → Auto → Manual → Exit

Push the OK button, and you will see Time Set Menu.
Set time automatically or manually.

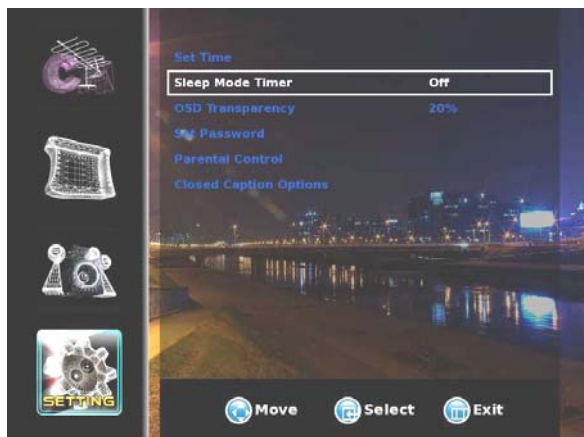
Push "To change" key to select auto/manual.
(When you select manual, set time using right/left keys.)

When you set the time zone in your area, time info included in broadcasting is set according to the time zone.
UTC is GMT. UTC + is the time in Korea, which is 9 hours earlier than UTC



<Note> If time is not accurate even though it is set to "Auto", watch digital TV for few minutes.
This because the time information is registered through digital broadcasting. However, if power is unplugged and plugged back in to power outlet, time changes to default.

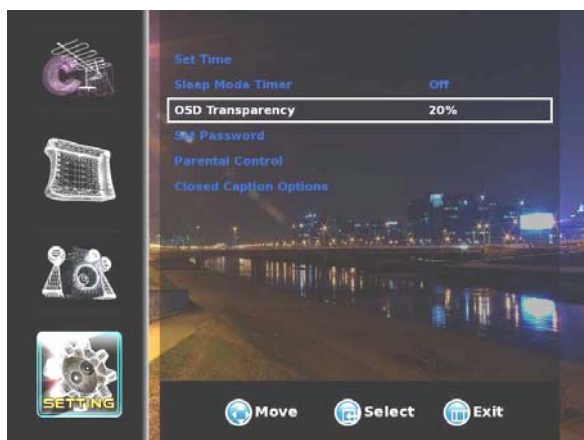
Menu Operations



Sleep Mode Timer

◀▶ → Setting → ▲▼ →
Sleep Mode Timer → Off → 30min →
60min → 90min → Exit

Set Sleep Timer by pushing the Enter button.
If you select Off, automatic turn-off is cancelled.
(Sleep Timer is 30/60/90 min..)



OSD Transparency

◀▶ → Setting → ▲▼ →
OSD Transparency → 20% → 50% →
80% → Invisible → Opacity → Exit

Adjusting transparency of all OSD such as program information, Volume control & channel edit etc.,. Except main Menu OSD (above picture)

Menu Operations



Set Password

◀▶ → Setting → ▲▼ →
Set Password → Select

Press the Enter button and you'll see Password Set menu.



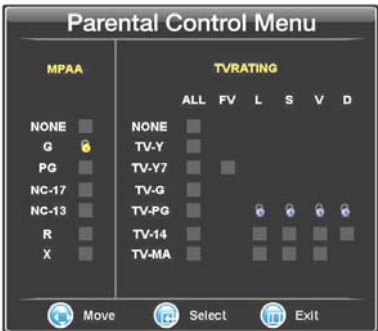
Enter the password.
By pressing number keys on the remote control, input 4 digits and press Enter.



Parental Control

◀▶ → Setting → ▲▼ →
Parental Control → Select

Press the Enter button and you'll see Parental Control menu.



Digital broadcasting includes several ratings/grades.
Press the OK button to set ratings & limitations on broadcasting.

Menu Operations



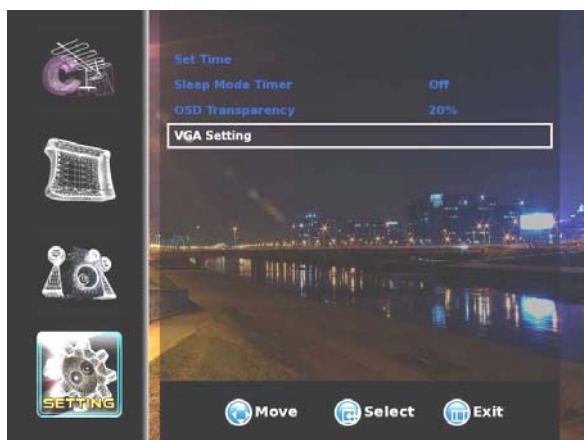
Closed Caption Options

◀▶ → Setting → ▲▼ →
Closed Caption Options →
Automation → Manual → Exit

Push the Enter button, and you will see Closed Caption Options.



Set auto/manual by pushing the Enter button.
(When you select manual, set options using right/left keys.)



VGA Setting (15" Only)

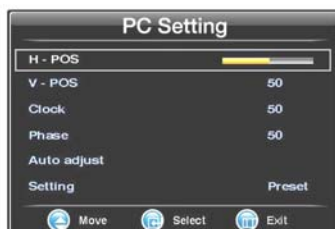
◀▶ → Setting → ▲▼ →
VGA Setting → Auto →
Manual → Exit

Push the OK button, and you will see VGA setting.

You can adjust screen conditions and positions for yourself when PC signals' screen conditions and status go wrong.

<Note> VGA setting support is available only in PC input.

Select menu items using "To move" button and push the Enter button.



Optimal PC screen is set automatically when Auto adjust is selected. In some cases, screen position may not be correct. In that case, adjust horizontal/vertical positions.

System Specification

1. NGLT104WPA Specification

LCD Panel	Size	10.4 Inch
	Resolution	SVGA (800*600)
TV Frequency Range		55.25 ~ 864.25MHz
Signal Input 1		Composite Video (1CH), S-Video (1CH)
Signal Input 2		ATSC / NTSC
Video System		NTSC(M/J) , PAL(B/G)
Antenna Input		VHF,UHF : 75 Ω
Speaker out [L/R]		3W / 3W Max
Control		Remote Control / Front Touch (IR Type) Key
Waterproof Grade		IP 67
Power Input		DC Power Adapter (DC 12V / 5A)
Power Consumption		30W Max.
Operation Temperature		0°C ~ 40°C
Audio Out [L/R]		For External Speaker
Dimensions		273 * 246 * 50 (W * H * D) mm
Weight (Approx.)		3kg(Net) / 4.5kg(Gross)
HS Code		8528.7273.00
IECEE Certification #		NGLT104xxx DE3-82771 CB07 11 61881 005
CE Certification #		NGLT104xxx EMC CE - 1221, EMC CE-1244
FCC Certification #		NGLT104xxx EMC/2007/075, Verification #: EMC FCC 0588
Korea Testing Lab 1P67 #		IP67 Report #: 07 1454-734

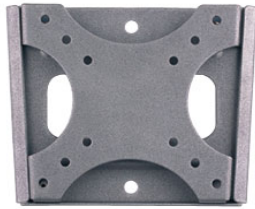
System Specification

2. NGLT150WPA Specification

LCD Panel	Size	15 Inch
	Resolution	XGA (1024*768)
TV Frequency Range		55.25 ~ 864.25MHz
Signal Input 1		Composite Video (1CH), S-Video (1CH), VGA (1CH)
Signal Input 2		ATSC / NTSC
Video System		NTSC(M/J) , PAL(B/G)
Antenna Input		VHF,UHF : 75 Ω
Speaker out [L/R]		5W / 5W Max
Control		Remote Control / Front Touch (IR Type) Key
Waterproof Grade		IP 67
Power Input		DC Power Adapter (DC 12V / 5A)
Power Consumption		36W Max.
Operation Temperature		0°C ~ 40°C
Audio Out [L/R]		For External Speaker
Dimensions		377 * 333 * 58 (W * H * D) mm
Weight (Approx.)		5kg(Net) / 7kg(Gross)
HS Code		8528.7273.00
IECEE Certification #		NGLT150xxx DE3-82752 CB07 10 61881 003
CE Certification #		NGLT150xxx EMC CE-1219, EMC CE-1244
FCC Certification #		NGLT150xxx EMC/2007/076, Verification #: EMC FCC 0588
Korea Testing Lab 1P67 #		IP67 Report #: 07 1454-734

Optional Accessories

1. Water Resistant Wall Mount Brackets



Flush



Adjustable

2. RAM Mount with VESA Plate



3. Monitor Enclosure with Arm Mount

