USER'S GUIDE

TFT-LCD MONITOR (SECURITY)

OR1740S / OR1940S
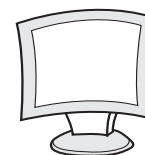
LCD MONITOR
User's Guide Book

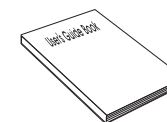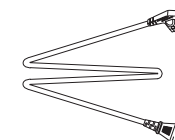## TABLE OF CONTENTS

1. INSTALLATION

1-1 Parts

TFT LCD Monitor

User's Guide Book

VGA Signal Cable

AC Power Cord

AUDIO CABLE(OPTION)
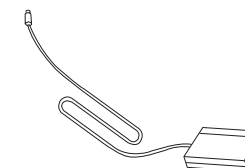
Power Adaptor

1-2 How to install

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩
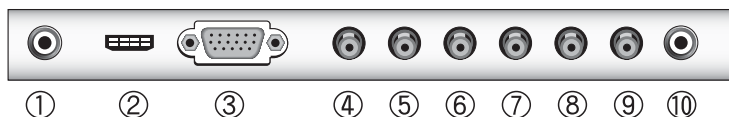
1. DC in
2. HDMI
3. Signal cable from signal source.
4. CVBS 1- input

5. CVBS 1- output
6. CVBS 2- input
7. CVBS 2- output
8. AUDIO-L

9. AUDIO-R
10. Stereo in

✽ SOURCE(HOT KEY) : Monitor displays source of the signal in the order below:
(PC ➡ HDMI ➡ CVBS 1 ➡ CVBS 2)

✽ *WARNING* : Tilting more than 10 degrees to the front or 30 degrees to the back

may cause collapse of the product.

2. FEATURES

2-1 17INCH

1. Display Mode

RESOLUTION	H−Frequency(kHz)	V−Frequency(Hz)
640×350	31.47	70.0
720×400	31.47	70.0
640×480	31.47	60.0
	35.00	66.7
	37.86	72.8
	37.50	75.0
800×600	35.16	56.0
	37.88	60.3
	48.08	72.2
	46.87	75.0
832×624	49.73	75.0
1024×768	48.36	60.0
	56.48	70.1
	60.02	75.0
1280X1024	64.00	60.0
	80.00	75.0

2. Specifications

Spec		Details
Screen size		17"
Display size		337.92mm×270.34mm
Screen coating		Anti−glare & Hard−coating
Pixel pitch		0.264×0.264mm
Brightness		300cd/㎡
Contrast scaling		1,000:1
Viewing angle		70/70/75/65 (left/right/up/down)
Response time		5ms
input Signal		HDMI, Analog RGB, CVBS1− in/out, CVBS2− in/out, AUDIO L/R, Stereo in
Speaker(Option)		2W x 2W
H−Frequency		30~81kHz
V−Frequency		55~75Hz
Resolution		1280×1024 @ 75Hz
Power Consumption		35W (Normal mode)
		2W (Power−saving mode)
Product size		438×149×450 (W×D×H)
Weight	Monitor	4.6kg
	Package	6.5kg

2-2 19INCH

1. Display Mode

RESOLUTION	H−Frequency(kHz)	V−Frequency(Hz)
640×350	31.47	70.0
720×400	31.47	70.0
640×480	31.47	60.0
	35.00	66.7
	37.86	72.8
	37.50	75.0
800×600	35.16	56.0
	37.88	60.3
	48.08	72.2
	46.87	75.0
1024×768	48.36	60.0
	56.48	70.1
	60.02	75.0
1280X1024	64.00	60.0
	80.00	75.0

2. Specifications

Spec		Details
Screen size		19"
Display size		376mm×301mm
Screen coating		Anti−glare & Hard−coating
Pixel pitch		0.294×0.294mm
Brightness		300cd/㎡
Contrast scaling		1,000:1
Viewing angle		70/70/75/65 (left/right/up/down)
Response time		Tf=2msec, Tf=6msec
input Signal		HDMI, Analog RGB, CVBS1− in/out, CVBS2− in/out, AUDIO L/R, Stereo in
Speaker(Option)		2W x 2W
H−Frequency		30~81kHz
V−Frequency		50~75Hz
Resolution		1280×1024 @ 75Hz
Power Consumption		45W (Normal mode)
		2W (Power−saving mode)
Product size		495×155×508 (W×D×H)
Weight	Monitor	5.4kg
	Package	7.4kg

3. OSD(On Screen Display) Setting

A-TYPE

1. OSD MENU in PC
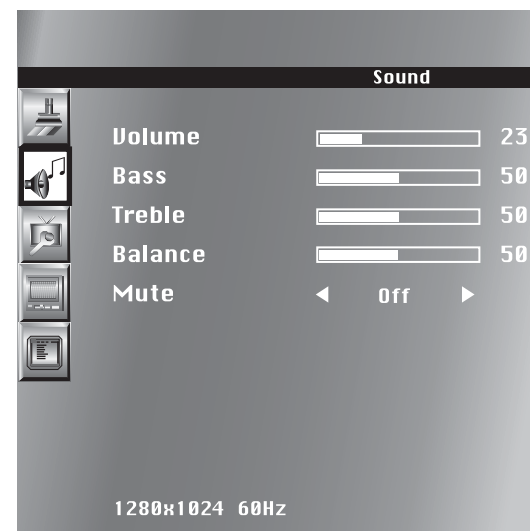

```
                    Sound

  Volume        [=====      ]    23
  Bass          [=======    ]    50
  Treble        [=======    ]    50
  Balance       [=======    ]    50
  Mute          ◄    Off    ►


  1280x1024 60Hz
```

Menu Sound

-Volume : adjust audio volume

-Bass : adjust audio bass

-Treble : adjust audio treble

-Balance : adjust audio balance(left-right)
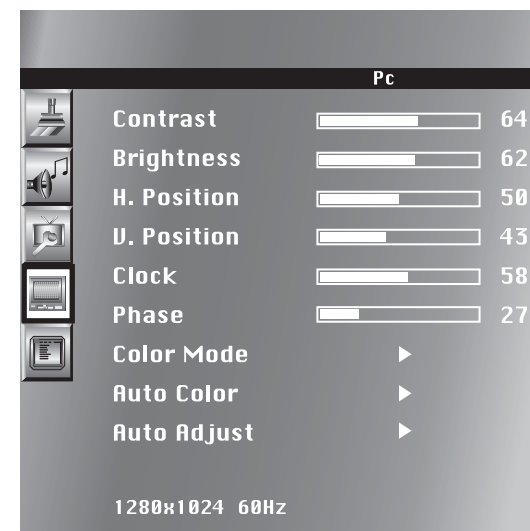
-Mute : Selects the sound on and off

2. OSD MENU in PC


```
                        Function

  Sleep Timer    ◄    Off    ►
  Key Lock       ◄    Off    ►
  Time Cycle     ◄    Off    ►




  1280x1024 60Hz
```

Menu Function

-Sleep timer : select the sleep time if you want automatically power
           off on a certain time.
-Key lock : lock the key function.
       Exit from key lock : Please AC power off and on with
                     pushing the menu key.
-Time Cycle : alternate CVBS1 and CVBS2 at the set time.

3. OSD MENU in PC


```
                        Pc

  Contrast       [========    ]   64
  Brightness     [=======     ]   62
  H. Position    [======      ]   50
  V. Position    [=====       ]   43
  Clock          [======      ]   58
  Phase          [==          ]   27
  Color Mode              ►
  Auto Color              ►
  Auto Adjust             ►

  1280x1024 60Hz
```

Menu PC

-Contrast : adjust the brightness and darkness of the oblect and
          backgrounds.
-Brightness : tadjust the brightness of the entire picture.
-H-positions : adjust the horizontal position of picture.
-V-posiion : adjust the vertical position fo picture.
-Clock   : adjust the horizontal size of the entire screen image.
-Phase   : eliminate the shake of the picture.
-Color mode : select color tone of the entire picture.
-Auto color : adjust color (brightness / contrast, etc) automatically.
-Auto adjust : horizontal/vertical positions and phase, clock are
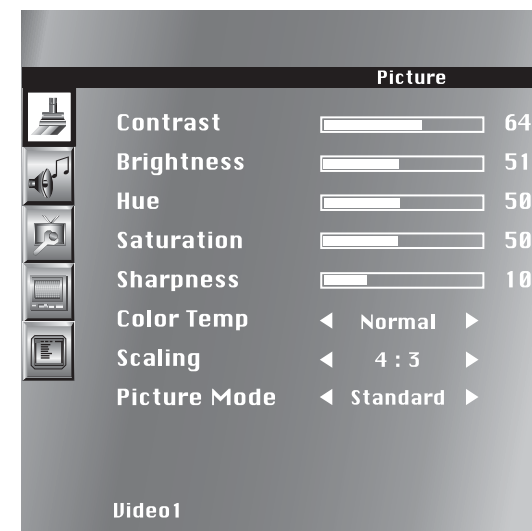   automatically adjusted.

4. OSD MENU in PC

```
                          Osd

   Language        ◀  English  ▶
   H. Position     [====      ]  50
   V. Position     [====      ]  50
   Osd Timer       [======    ]  60
   Transparent     [==        ]   4
   Recall                    ▶



   1280x1024  60Hz
```

Menu OSD

-Language : You can choose English 12 other language.
-H-position : adjust the horizontal position of OSD window.
-V-position : adjust the vertical position of OSD window.
-OSD timer : adjust the time of OSD window display.
-Transparent : adjust the transparency of OSD window.
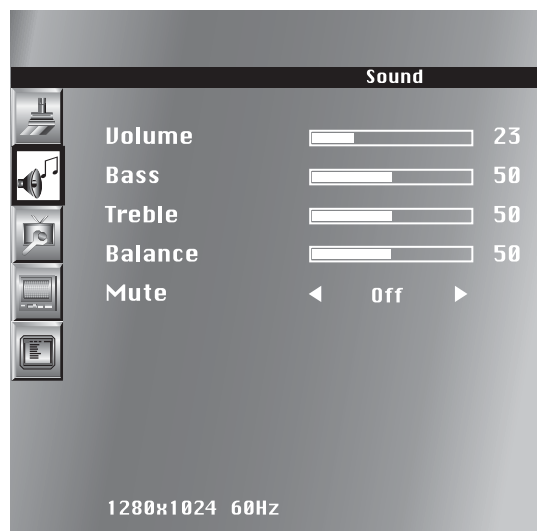-Recall   : recall the initial setting.

5. OSD MENU in CVBS or S-VIDEO

```
                        Picture

   Contrast      [========  ]  64
   Brightness    [=======   ]  51
   Hue           [======    ]  50
   Saturation    [======    ]  50
   Sharpness     [==        ]  10
   Color Temp    ◀  Normal  ▶
   Scaling       ◀   4 : 3   ▶
   Picture Mode  ◀ Standard ▶



   Video1
```

Menu Picture

-Contrast : adjust the brightness and darkness of the object and backgrounds.
-Brightness : adjust the brightness of the entire picture.
-Hue   : adjust colors naturally. This function is activated at NTSC
                    video signal.
-Saturation : adjust colors to deeper or lighter color.
-Shtrpness : adjust the sharpness of video image.
-Color temp :   -Normal : general color tone.
                          -Warm : warm colors with reddish tone.
                          -Cool   : cool colors with bluish tone.
-Scaling : -4:3 : general picture size.
               -Zoom : zoom in vertical direction.
-Picture mode : -Standard : general contents. It fits most contents.
                          -Vivid : for a clear display.
                          -Movie : movie watching mode.
                          -User : when the user wants to set the values.

6. OSD MENU in CVBS or S-VIDEO

```
                    Sound
    Volume          [========    ]  23
    Bass            [=====       ]  50
    Treble          [=====       ]  50
    Balance         [=====       ]  50
    Mute          ◄     Off     ►

    1280x1024  60Hz
```

Menu Sound

-Volume : adjust audio volume

-Bass : adjust audio bass

-Treble : adjust audio treble

-Balance : adjust audio balance(left-right)

-Mute : Select the sound on and off

7. OSD MENU in CVBS or S-VIDEO

```
                    Function
    Sleep Timer   ◄     Off     ►
    Key Lock      ◄     Off     ►
    Time Cycle    ◄     Off     ►

    1280x1024  60Hz
```

Menu Function

-Sleep timer : select the sleep time if you want automatically power
              off on a certain time.
-Key lock : lock the key function.
          Exit from key lock : Please AC power off and on with
                              pushing the menu key.
-Time Cycle : alternate CVBS1 and CVBS2 at the set time.
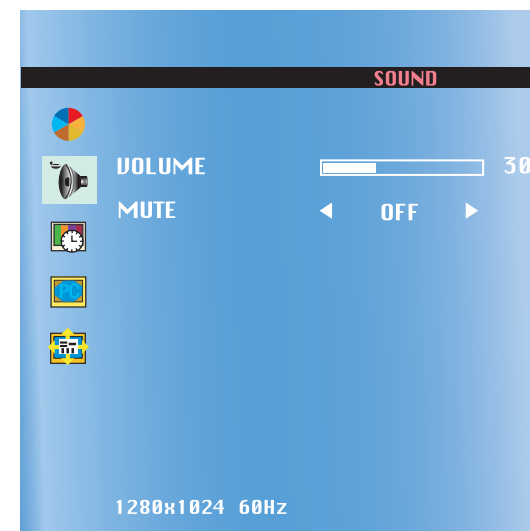
8. OSD MENU in CVBS or S-VIDEO

Menu OSD

-Language : You can choose English and 12 other languages.
-H-position : adjust the horizontal position of OSD window.
-V-position : adjust the vertical position of OSD window.
-OSD timer : adjust the time of OSD window display.
-Transparent : adjust the transparency of OSD window.
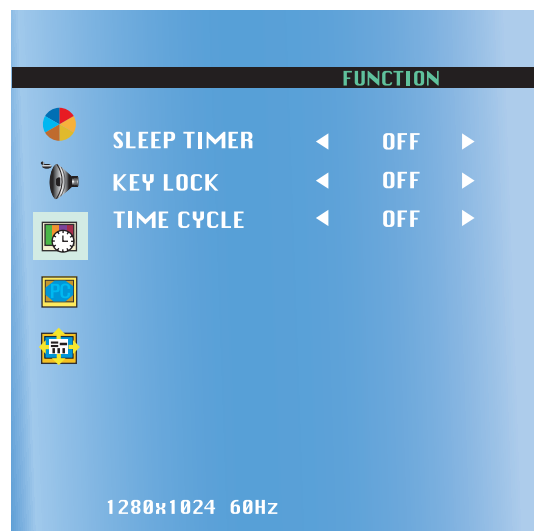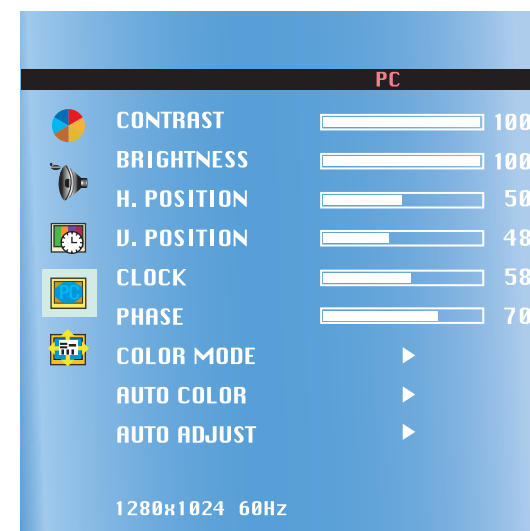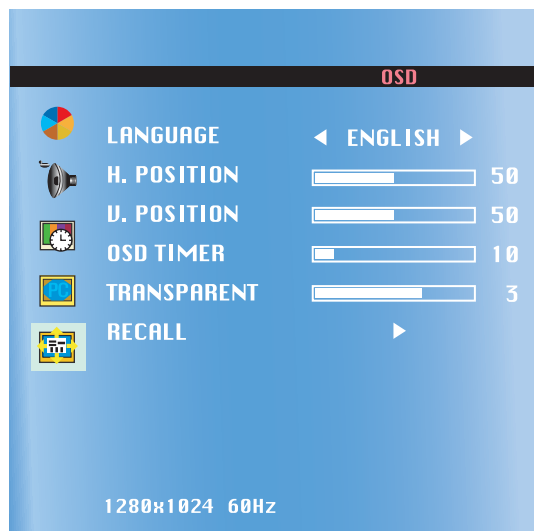-Recall   : recall the initial setting.

B-TYPE

1. OSD MENU in PC

Menu Sound

-Volume : adjust audio volume

-Mute : Select the sound on and off

2. OSD MENU in PC

```
                    FUNCTION

   SLEEP TIMER    ◄    OFF    ►
   KEY LOCK       ◄    OFF    ►
   TIME CYCLE     ◄    OFF    ►




   1280x1024  60Hz
```

Menu Function

-Sleep timer : select the sleep time if you want automatically power
                off on a certain time.
-Key lock : lock the key function.
            Exit from key lock : Please AC power off and on with
                            pushing the menu key.
-Time Cycle : alternate CVBS1 and CVBS2 at the set time.

3. OSD MENU in PC

```
                        PC

   CONTRAST      [==========]  100
   BRIGHTNESS    [==========]  100
   H. POSITION   [=====     ]   50
   V. POSITION   [=====     ]   48
   CLOCK         [======    ]   58
   PHASE         [=======   ]   70
   COLOR MODE           ►
   AUTO COLOR           ►
   AUTO ADJUST          ►

   1280x1024  60Hz
```

Menu PC

-Contrast : adjust the brightness and darkness of the oblect and
            backgrounds.
-Brightness : adjust the brightness of the entire picture.
-H-positions : adjust the horizontal position of picture.
-V-posiion : adjust the vertical position fo picture.
-Clock   : adjust the horizontal size of the entire screen image.
-Phase   : eliminate the shake of the picture.
-Color mode : select color tone of the entire picture.
-Auto color : adjust color (brightness / contrast, etc) automatically.
-Auto adjust : horizontal/vertical positions and phase, clock are
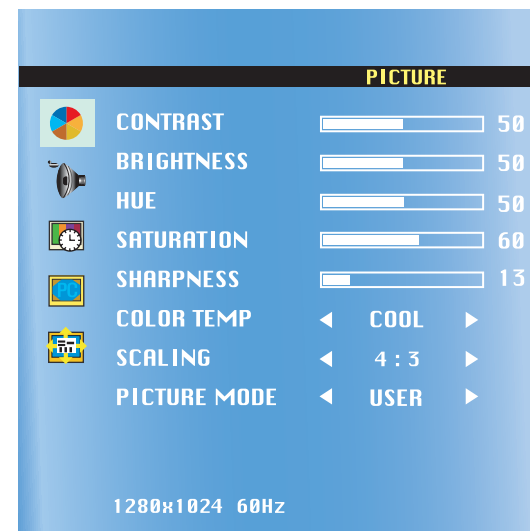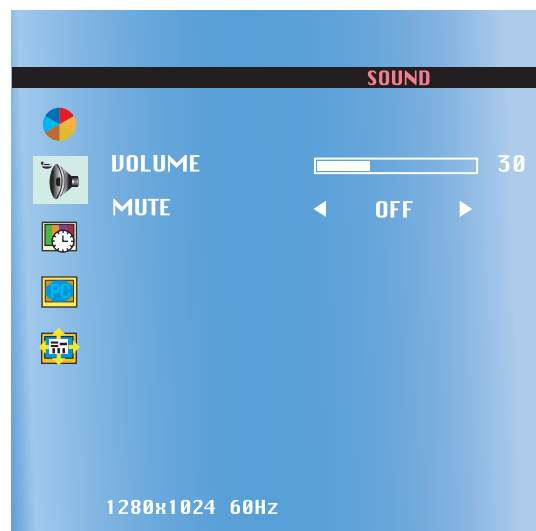   automatically adjusted.

4. OSD MENU in PC

```
                    OSD

  LANGUAGE        ◄  ENGLISH  ►
  H. POSITION     [====    ]  50
  V. POSITION     [====    ]  50
  OSD TIMER       [=       ]  10
  TRANSPARENT     [===     ]   3
  RECALL              ►



  1280x1024  60Hz
```

Menu OSD

-Language : You can choose English and 12 other languages.
-H-position : adjust the horizontal position of OSD window.
-V-position : adjust the vertical position of OSD window.
-OSD timer : adjust the time of OSD window display.
-Transparent : adjust the transparency of OSD window.
-Recall   : recall the initial setting.

5. OSD MENU in CVBS or S-VIDEO

```
                    PICTURE

  CONTRAST        [======  ]  50
  BRIGHTNESS      [======  ]  50
  HUE             [======  ]  50
  SATURATION      [======= ]  60
  SHARPNESS       [==      ]  13
  COLOR TEMP      ◄   COOL    ►
  SCALING         ◄   4:3     ►
  PICTURE MODE    ◄   USER    ►



  1280x1024  60Hz
```

Menu Picture

-Contrast : adjust the brightness and darkness of the object and backgrounds.
-Brightness : adjust the brightness of the entire picture.
-Hue   : adjust colors naturally. This function is activated at NTSC video signal.
-Saturation : adjust colors to deeper or lighter color.
-Shtrpness : adjust the sharpness of video image.
-Color temp :   -Normal : general color tone.
                 -Warm : warm colors with reddish tone.
                 -Cool   : cool colors with bluish tone.
-Scaling : -4:3 : general picture size.
           -Zoom : zoom in vertical direction.
-Picture mode : -Standard : general contents. It fits most contents.
                -Vivid : for a clear display.
                -Movie : movie watching mode.
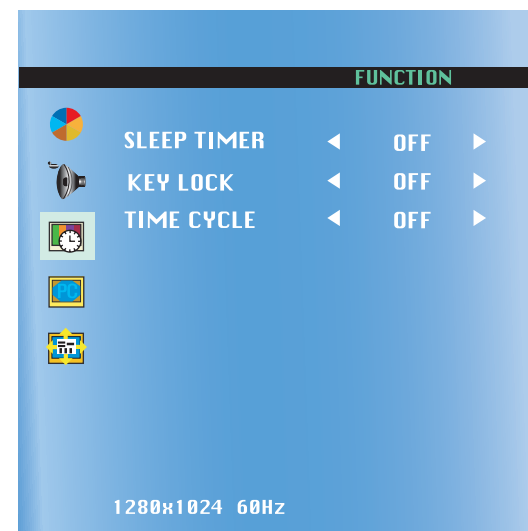   -User : when the user wants to set the values.

6. OSD MENU in CVBS or S-VIDEO

```
                        SOUND

     VOLUME        [=========]      30
     MUTE          ◄    OFF    ►




     1280x1024 60Hz
```

Menu Sound

-Volume : adjust audio volume

-Mute : Select the sound on and off

7. OSD MENU in CVBS or S-VIDEO

```
                        FUNCTION

     SLEEP TIMER    ◄    OFF    ►
     KEY LOCK       ◄    OFF    ►
     TIME CYCLE     ◄    OFF    ►




     1280x1024 60Hz
```

Menu Function

-Sleep timer : select the sleep time if you want automatically power
              off on a certain time.
-Key lock : lock the key function.
            Exit from key lock : Please AC power off and on with
                                pushing the menu key.
-Time Cycle : alternate CVBS1 and CVBS2 at the set time.

8. OSD MENU in CVBS or S-VIDEO


```
                    OSD

 LANGUAGE       ◄ ENGLISH ►
 H. POSITION    [====    ] 50
 V. POSITION    [====    ] 50
 OSD TIMER      [==      ] 10
 TRANSPARENT    [=====   ] 3
 RECALL                ►



 1280x1024 60Hz
```

Menu OSD

-Language : You can choose English 12 other languages.
-H-position : adjust the horizontal position of OSD window.
-V-position : adjust the vertical position of OSD window.
-OSD timer : adjust the time of OSD window display.
-Transparent : adjust the transparency of OSD window.
-Recall   : recall the initial setting.

4. CONTROL BUTTON

Menu/Select	Auto/Exit/Source	▼	▲	⏻

Menu/Select : Activate OSD window.
               Operated by select button.

Auto/Exit/Source : Set the program automatically
                    Turn off OSD window.

▼ : move to the left(decrease) on OSD window.

▲ : move to the right(increase) on OSD window.

⏻ : Turn on/off monitor.

5. SAFETY INSTRUCTION

※ Follow this safety instruction to use the monitor properly and prevent the damages.

> ※ This safety instruction has "Warning" and "Caution" as below.
>
> ⊗ Warning - If the user does not follow this instruction,
> it may cause the serious damage to the user or the monitor.
>
> ! Caution - If the user does not follow this instruction, it may cause the slight
> damage to the user or cause some damages to the monitor.

※ Save this user's guide book for later use

⊗ **Warning**

Never remove the back cover and touch the inside of the monitor.
If you need a service, please contact the service center or sales rep.
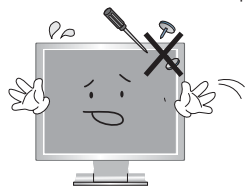
Keep away the monitor from the direct sunlight and a heating appliance

Never push objects of any kind into this product as they may result in a risk of fire or electric shock

Connect the power code to the wall outlet tightly. If the power code or plug are defective and the wall outlet is not tight, please do not use them

⊗ **Warning**

Do not install this monitor on the outside and near water. If may cause damage to the product, electric shock and fire.

For cleaning, do not use liquid cleaners. Never touch the power plug with wet-hands
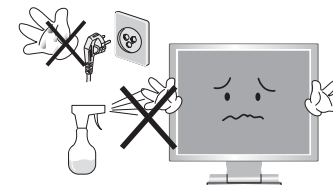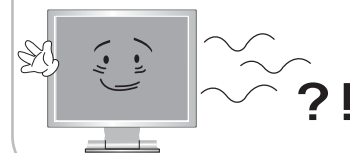
When lightening and thundering, unplug the monitor from the wall outlet and never touch it.
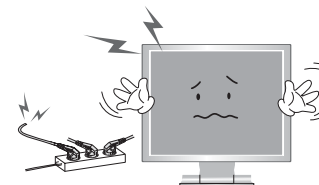
Unplug this product from the wall outlet, when it does not operate for a long time.
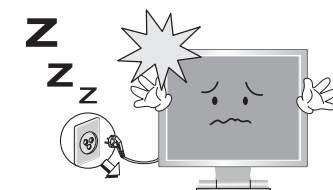
When smoking and noising from the monitor, unplug the product from the wall outlet and contact a service center or the sales rep.

? !

⊗ **WARNING :** How to fix

Do not open this product as it contains high voltage inside.
It may create an electric shock.
It the user disassembles and Removes the back cover, it does not make sure
to make up for the damages and do a service and exchange the monitor.

ⓘ Cautions

Install this monitor some distance from the wall and do not install unless Proper ventilation is provided.

over 10cm
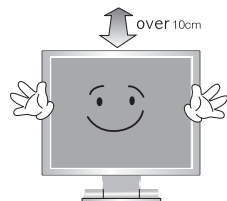
Place this product on a stable place. If not, it may fall, causing serious damages to the monitor and people.

The openings must not be blocked by curtain, rug or other similar surface.
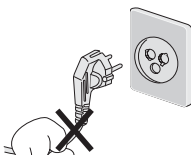
When carrying this monitor, be careful not to damage the panel and drop it It may cause some trouble.

Before carrying the monitor, tum it off and unplug the signal cables and the power code From the wall outlet.

Take the power plug out from the wall outlet.
Do not pull the cable. It may snap the inner-wires and cause overheating and fire.

ⓘ Cautions

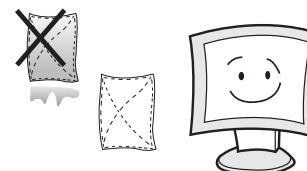Install this monitor about 50cm far from the eyes and an angle of 0~15 degrees below eyes. Too close installation may cause having weak sight

50cm
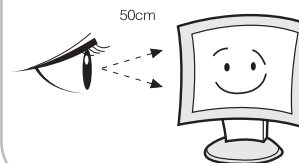
Do not press the LCD panel with hands or the sharpened material hardly.

For cleaning, unplug the monitor from the wall outlet. Do net use the liquid cloth. Use the soft cloth.

Do not use the chemical liquid for cleaning. It may cause fading and breakage.

6. INFORMATION TO THE USER

INFORMATION TO THE USER

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 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 experienced radio / TV technician for help.

WARNING

The manufacturer is not responsible for any Radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment."

7. TROUBLE SHOOTING

※ When the following troubles are occurred, follow the trouble shooting before contacting a service center or sales rep.

Trouble	Check point	How to fix
Power indicator is off and no picture	- The power cord is properly connected? - Check the power button of monitor	- Connect the power cord properly. - Turn on the monitor
No picture even though the power LED is on.	- Check the signal cable is connected properly.	- Connect the signal cable properly
Screen position is not collect.	- Check the screen size and position	- Press "AUTO" button on OSD menu
Screen is too bright or dark	- Check the brightness of the monitor	- Adjust the brightness by PC system
Screen is not clear. Focus is bad and noise occur.	- The frequency sets up properly?	- Adjust the frequency by PC.

Memo

Memo