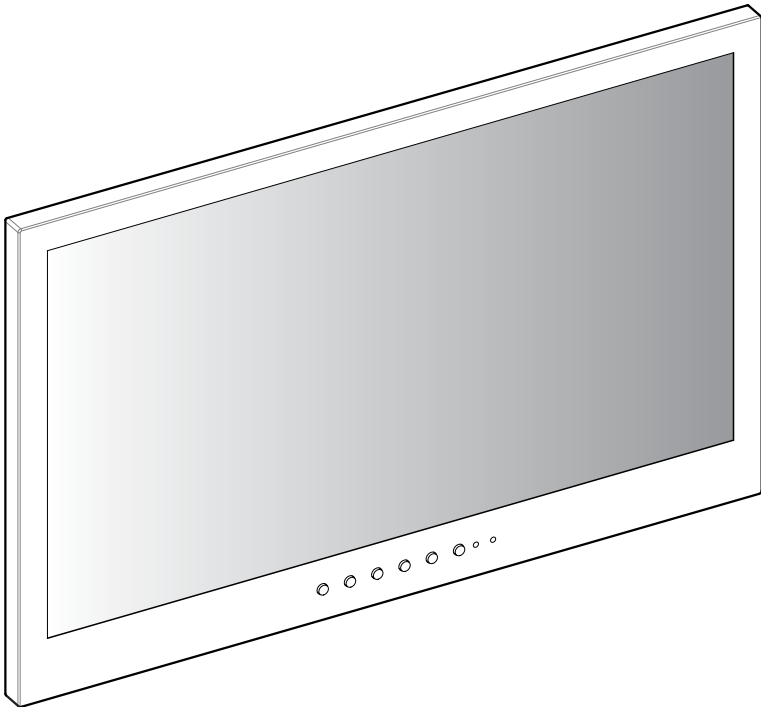


**GB** Installation and Operating Instructions

**21.5" TFT LCD MONITOR**

**VMC-22LED**



## 1. SAFETY INSTRUCTION

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

※ This safety instruction has “Warning” & “Caution” as below



Warning - If the user does not follow this instruction, it may cause the serious damage to the user.



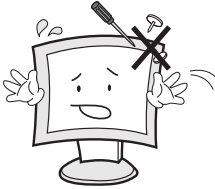
Caution - If the user does not follow this instruction, it may cause the slight damage to the user or cause some damages to the monitor.

※ Keep this user's guide book for later use.

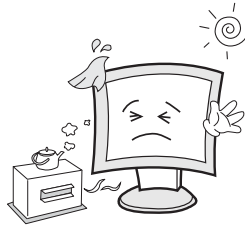


### Warning

Never remove the back cover and touch the inside of the monitor. If you need a service, please contact the service center.



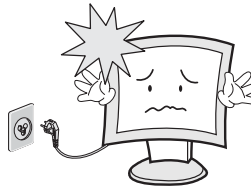
Keep away the monitor from the direct sunlight and a heating appliance.



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



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

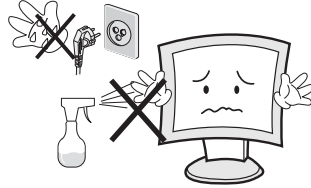


 **Warning**

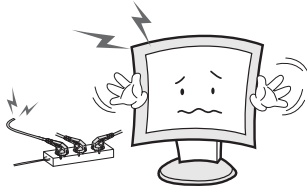
Do not install this monitor on the outside and near water. It may cause damage to the product, electric shock and fire.



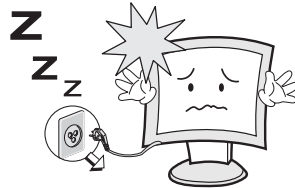
For cleaning do not use liquid cleaners. Never touch the power plug with wet-hands.



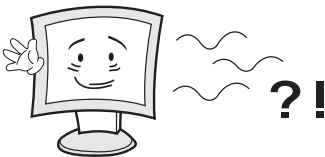
When lightning and thundering, unplug the monitor from the wall outlet and never touch it.



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.



 **WARNING** : How to fix

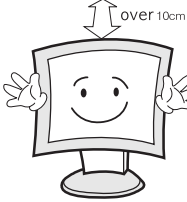
Do not open this product as it contains high voltage inside.

It may create an electric shock.

If the user disassembles and remove the back cover, it does not make sure to make up for the damage 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.



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.



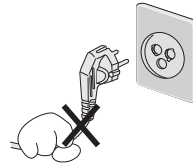
When carrying this monitor, be careful not to damage the panel and drop it. It may cause some trouble.



Before carrying the monitor, turn it off and unplug the signal cables and the power cord from the wall outlet.

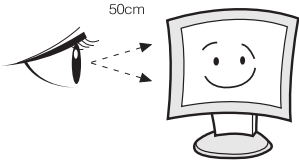


Take the power plug out from the wall outlet. Do not pull the cable. It may snap the inner-wires and cause overheating and fire.



**!** Cautions

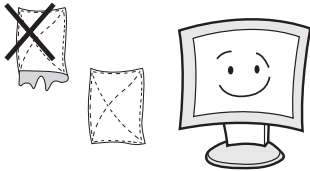
Install this monitor about 50cm far from the eyes and an angle of 0~15 degrees below eyes. Too close installation may cause having weak sight.



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



For cleaning, unplug the monitor from the wall outlet. Do not use the liquid cloth. Use the soft cloth.



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



## 2. FCC RF INTERFERENCE STATEMENT

### NOTE

*This equipment has been tested and found to comply with the limits for a Class A 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 experienced radio, TV technician for help.
- Only shielded interface cable should be used.

*Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the users authority to operate such equipment.*

### DOC COMPLIANCE NOTICE

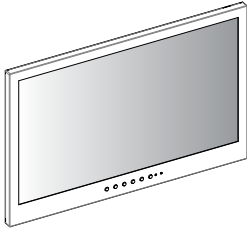
This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the radio interference regulation of Canadian Department of communications.

## TABLE OF CONTENTS

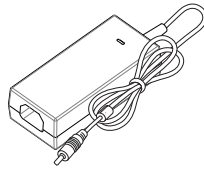
|  |    |
|--|----|
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| 1-2 Caution                            |    |
| 2. FCC STATEMENT                       | 6  |
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### 3. INSTALLATION

#### 3-1 Parts

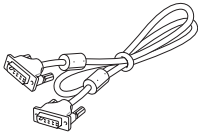


LCD Monitor



Adapter

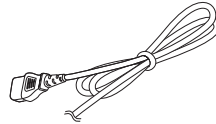
*\* Adapter is attached to the back of product*



VGA Cable



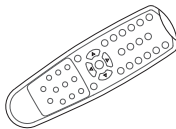
Trigger Cable



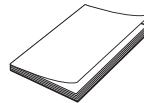
Power Cable



Battery



Remote Controller

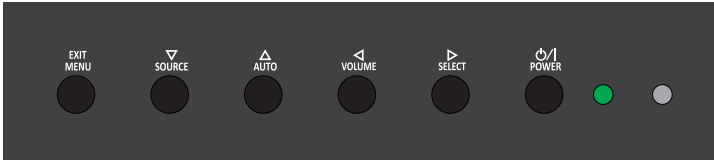


User Manual



### 3-2 How to Install

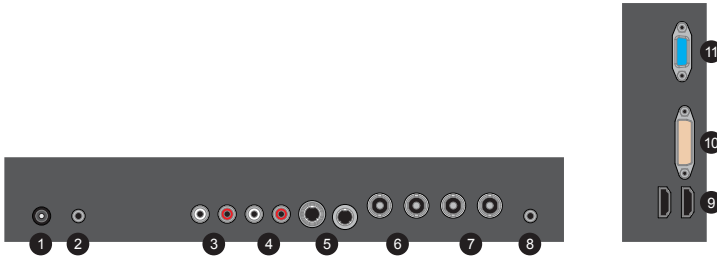
#### KEY BUTTON



#### SHORT KEY FUNCTION

| OSD Key      | Function  |
|--------------|---|
| EXIT<br>MENU | Activates and exit the OSD  |
| ▽<br>SOURCE  | Select input source, and select the OSD menu  |
| △<br>AUTO    | Move the OSD menu and auto adjustment of RGB source   |
| ◀<br>VOLUME  | Decrease the level of volume and move the previous menu   |
| ▶<br>SELECT  | Increase the level of volume and select the OSD menu  |
| ⏻<br>POWER   | Turns the power ON or OFF. There will be a few seconds delay before the display appears. The power LED (next to the power switch) lights with green when the power is turned ON. The power is turned off by pressing the power switch again and the power LED goes red. |

CONNECTION



- 1** DC12V  
*DC adapter input*

**2** AUDIO (PC)  
*Stereo audio input for VGA*

**3** AUDIO (VIDEO-2)  
*Stereo audio input for VIDEO-2*

**4** AUDIO (VIDEO-1 / S-VIDEO)  
*Stereo audio input for VIDEO-1 or S-VIDEO*

**5** S-VIDEO IN / OUT  
*S-VIDEO signal input / looping out*
- 6** VIDEO-2 IN / OUT  
*VIDEO-2 signal input / looping out*

**7** VIDEO-1 IN / OUT  
*VIDEO-1 signal input / looping out*

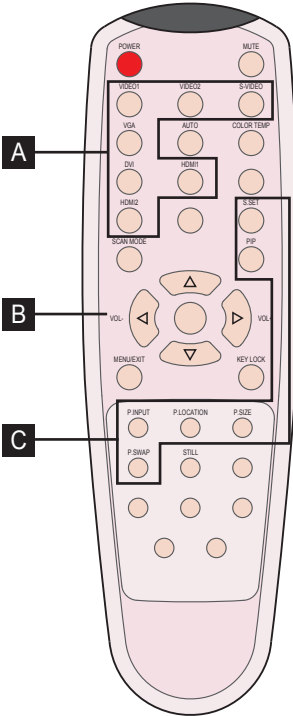
**8** TRIGGER  
*TRIGGER signal input*

**9** HDMI  
*HDMI signal 1 / 2 input*

**10** DVI  
*DVI signal input*

**11** VGA  
*VGA (PC RGB) signal input*

## REMOTE CONTROLLER



### A MODE SELECT MENU

#### VIDEO1

Select VIDEO1 mode

#### S-VIDEO

Select S-VIDEO mode

#### DVI

Select DVI mode

#### HDMI2

Select HDMI2 mode

#### VIDEO2

Select VIDEO2 mode

#### VGA (RGB)

Select VGA mode

#### HDMI1

Select HDMI1 mode

### B OSD CONTROL MENU

#### POWER

Turn ON / OFF the monitor

#### AUTO

Auto adjust position of the screen (in VGA mode)

#### SCAN MODE

Select the scan mode of the screen

#### MENU / EXIT

Activate and exit the OSD menu

#### STILL

Freeze the current image

#### MUTE

Turn ON / OFF the sound

#### COLOR TEMPERATURE

Select color temperature of the screen

#### VOL- / VOL+

Increase / Decrease the volume level

#### KEY LOCK

Locking the button (Prevent operation)

### C PIP CONTROL MENU

#### S. SET

Select between main and PIP audio input

#### P. INPUT

Select an input source for PIP mode

#### P. SIZE

Select a size for PIP mode

#### PIP

Activates PIP/PBP mode

#### P. LOCATION

Select a location for PIP mode

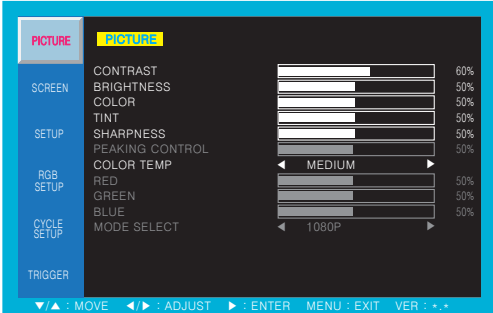
#### P. SWAP

Swap between main and PIP input



## 4-2 Menu Setting (VIDEO, S-VIDEO Mode)

### PICTURE



1. Press the MENU/EXIT key to access menu.
2. Use the ▲&▼arrow to highlight a selection.
3. Press the ►/SELECT to choose an item.
4. Use the ▲&▼arrow to highlight a selection.
5. Use the ▲&▼arrow to adjust the setting on a selected item.

**CONTRAST** : Adjust visual color contrast  
**COLOR** : Adjust visual color of screen  
**SHARPNESS** : Adjust sharpness of screen

**BRIGHTNESS** : Adjust color brightness  
**TINT** : Adjust tint of color  
**COLOR TEMP** : Switch color temperature of screen

### CONTRAST



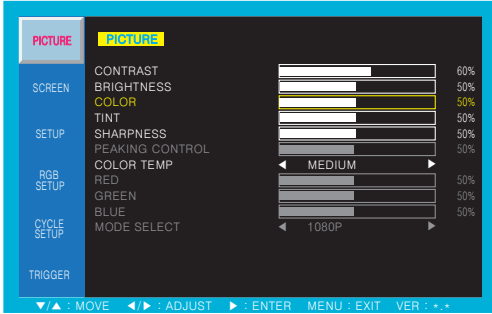
Default setting is 60% and adjustable from range of 0 to 100%

### BRIGHTNESS



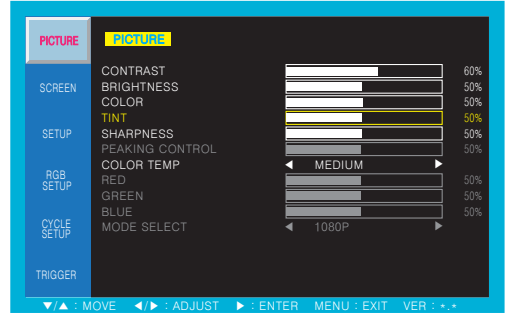
Default setting is 50% and adjustable from range of 0 to 100%

COLOR



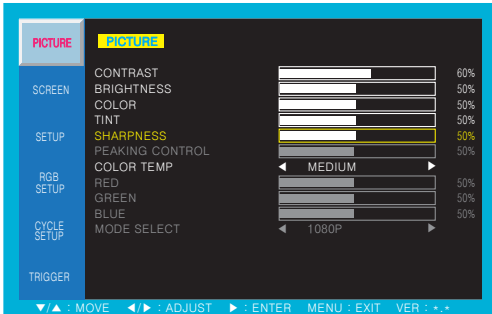
Default setting is 50% and adjustable from range of 0 to 100%

TINT



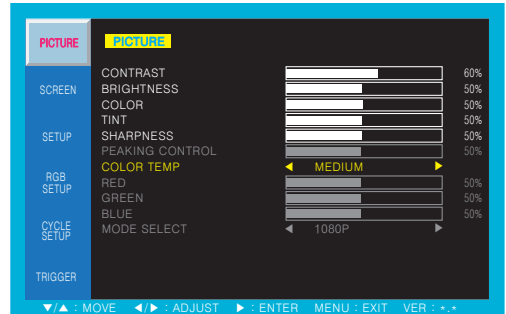
Default setting is 50% and adjustable from range of 0 to 100%

SHARPNESS



Default setting is 50% and adjustable from range of 0 to 100%

COLOR TEMP



Default setting is MEDIUM and switch to WARM, USER and COOL color temperature options

USER - Default setting of RED, GREEN, BLUE is 50% and adjustable from range of 0 to 100%



## SETUP

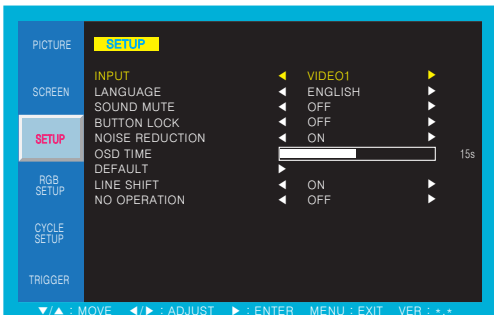


- INPUT : Select an input source for main screen
- SOUND MUTE : Turn on/off the sound
- NOISE REDUCTION : Set a noise reduction mode
- DEFAULT : Factory default setting
- NO OPERATION : Set a no operation mode

1. Press the MENU/EXIT key to access menu.
2. Use the ▲&▼arrow to highlight a selection.
3. Press the ►/SELECT to choose an item.
4. Use the ▲&▼arrow to highlight a selection.
5. Use the ▲&▼arrow to adjust the setting on a selected item.

- LANGUAGE : Set to different language mode
- BUTTON LOCK : Locking the button (Prevent operation)
- OSD TIME : Set a time duration of OSD menu
- LINE SHIFT : Move a little to protect the screen

### INPUT



*Inputs can be set to VIDEO1, VIDEO2, S-VIDEO, RGB PC, DVI, HDMI1, HDMI2 mode*

### LANGUAGE

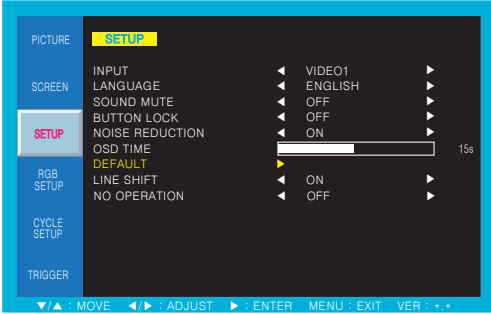


*Default setting is ENGLISH and language setting can be set to ITALIAN, FRENCH, SPANISH and GERMAN*



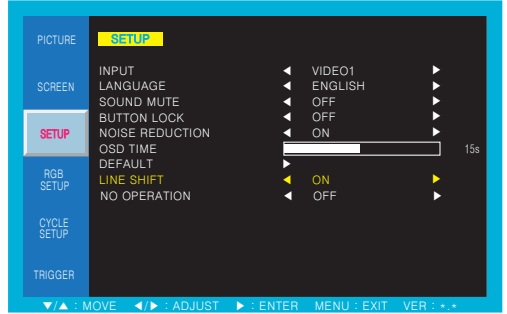


DEFAULT



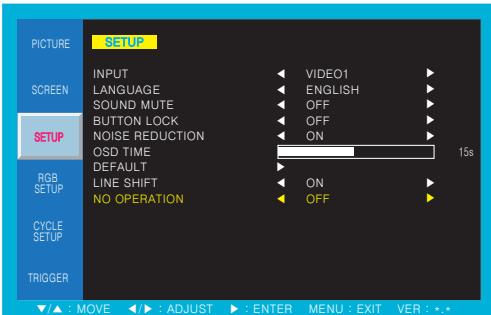
DEFAULT is set OSD menu to factory default

LINE SHIFT



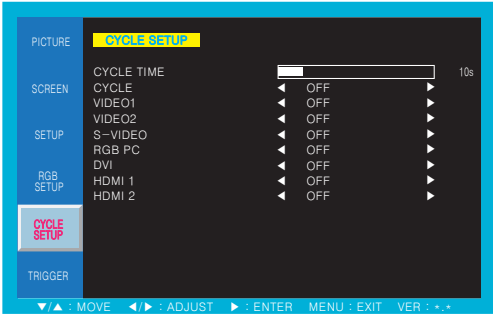
Default setting is ON and switch to OFF line shift option

NO OPERATION



Default setting is OFF and switch to ON no operation option

## CYCLE SETUP

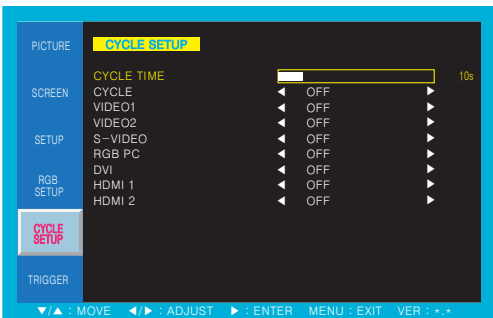


CYCLE TIME : Adjust cycle time to displayed on the screen

1. Press the MENU/EXIT key to access menu.
2. Use the  $\blacktriangle$  &  $\blacktriangledown$  arrow to highlight a selection.
3. Press the  $\blacktriangleright$ /SELECT to choose an item.
4. Use the  $\blacktriangle$  &  $\blacktriangledown$  arrow to highlight a selection.
5. Use the  $\blacktriangle$  &  $\blacktriangledown$  arrow to adjust the setting on a selected item.

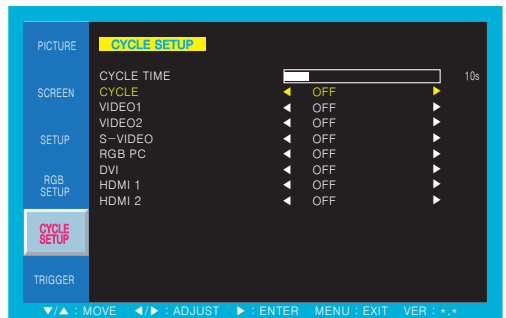
CYCLE : Selected mode keep change continuously

### CYCLE TIME



Default setting is 10s and adjustable from range of 10 to 30s

### CYCLE

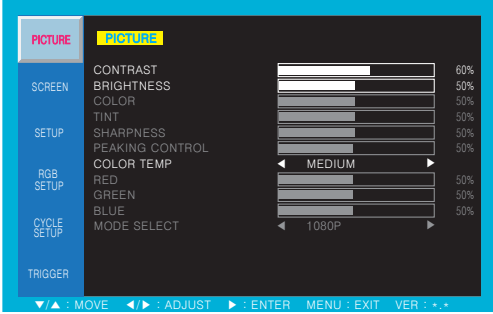


Default setting is OFF and switch to ON cycle option



### 4-3 Menu Setting (VGA Mode)

#### PICTURE

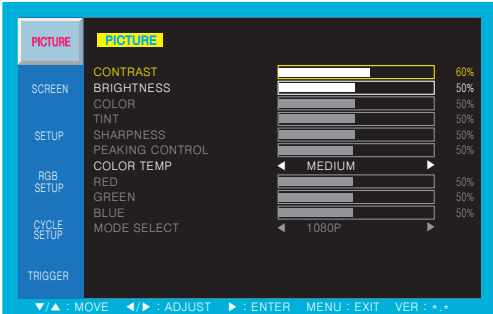


1. Press the MENU/EXIT key to access menu.
2. Use the ▲&▼arrow to highlight a selection.
3. Press the ►/SELECT to choose an item.
4. Use the ▲&▼arrow to highlight a selection.
5. Use the ▲&▼arrow to adjust the setting on a selected item.

CONTRAST : Adjust visual color contrast  
 COLOR TEMP : Switch color temperature of screen

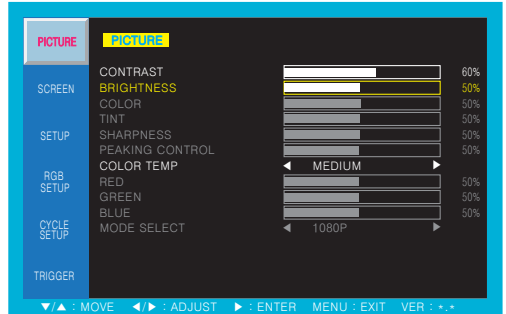
BRIGHTNESS : Adjust color brightness

#### CONTRAST



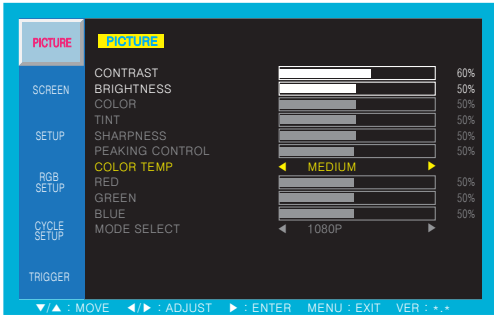
Default setting is 60% and adjustable from range of 0 to 100%

#### BRIGHTNESS



Default setting is 50% and adjustable from range of 0 to 100%

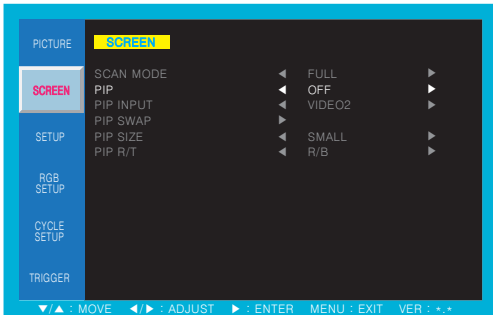
COLOR TEMP



Default setting is MEDIUM and switch to WARM, USER and COOL color temperature options

USER - Default setting of RED, GREEN, BLUE is 50% and adjustable from range of 0 to 100%

SCREEN

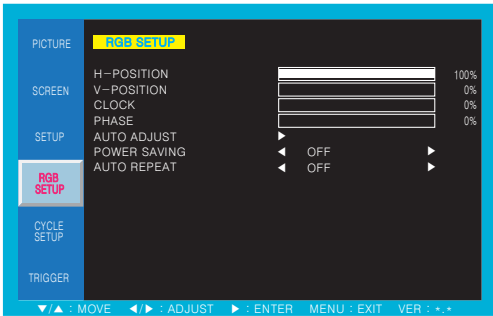


1. Press the MENU/EXIT key to access menu.
2. Use the ▲&▼arrow to highlight a selection.
3. Press the▶/SELECT to choose an item.
4. Use the ▲&▼arrow to highlight a selection.
5. Use the ▲&▼arrow to adjust the setting on a selected item.

PIP : Activates PIP/PBP mode



## RGB SETUP

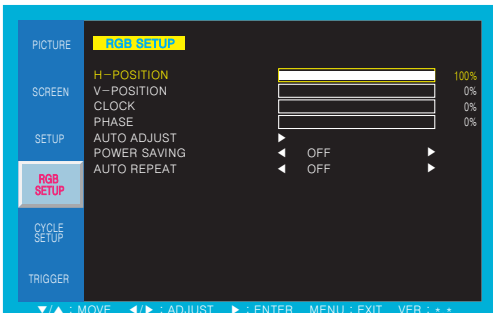


1. Press the MENU/EXIT key to access menu.
2. Use the ▲&▼arrow to highlight a selection.
3. Press the▶/SELECT to choose an item.
4. Use the ▲&▼arrow to highlight a selection.
5. Use the ▲&▼arrow to adjust the setting on a selected item.

H-POSITION : Adjust horizontal position of monitor  
 CLOCK : Adjust clock of monitor  
 AUTO ADJUST : Auto adjust position of screen  
 AUTO REPEAT : Adjust auto repeat of monitor

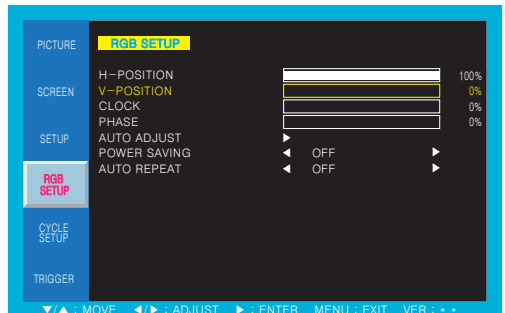
V-POSITION : Adjust vertical position of monitor  
 PHASE : Adjust phase of monitor  
 POWER SAVING : Power saving mode

### H-POSITION



Can be set between 0 to 100% horizontal position of monitor by manually

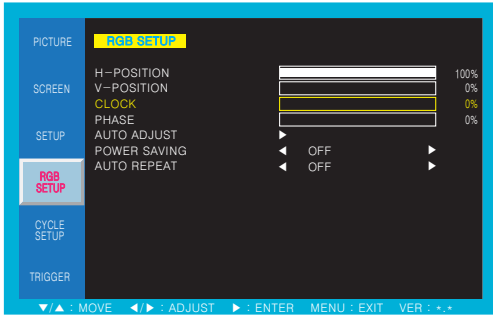
### V-POSITION



Can be set between 0 to 100% vertical position of monitor by manually

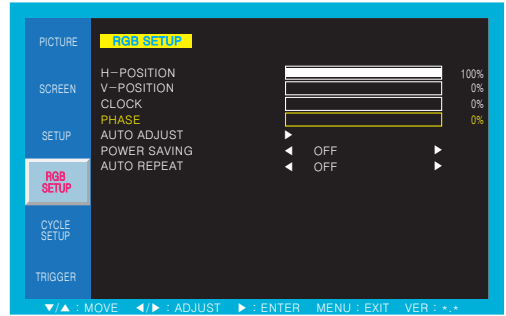


CLOCK



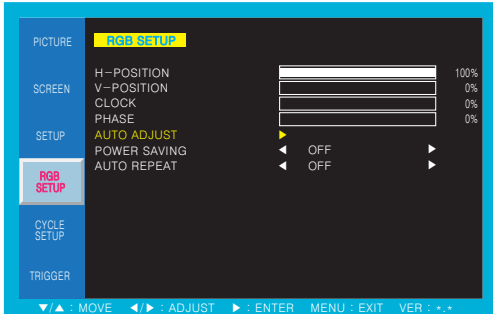
Can be set between 0 to 100% clock of monitor by manually

PHASE



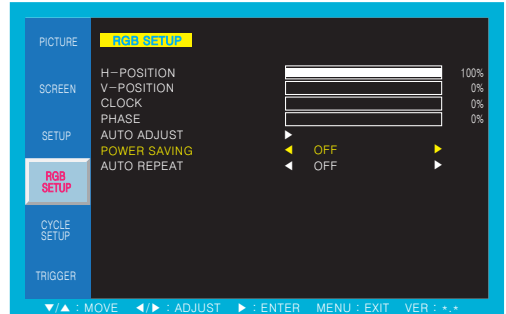
Can be set between 0 to 100% phase of monitor by manually

AUTO ADJUST



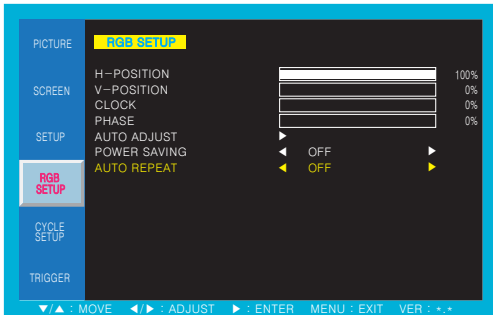
Auto adjust position and image of screen

POWER SAVING



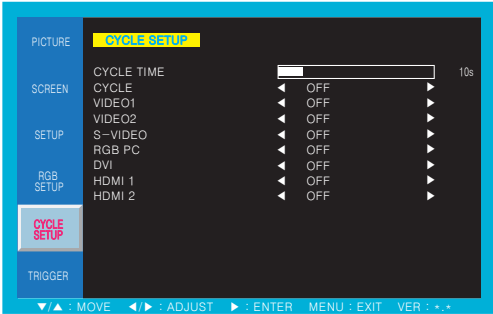
Default setting is OFF and switch to ON power saving mode

AUTO REPEAT



Default setting is OFF and switch to ON auto repeat mode

## CYCLE SETUP



1. Press the MENU/EXIT key to access menu.
2. Use the ▲&▼arrow to highlight a selection.
3. Press the▶/SELECT to choose an item.
4. Use the ▲&▼arrow to highlight a selection.
5. Use the ▲&▼arrow to adjust the setting on a selected item.

*This function of each menu is listed page 19  
Please refer to page 19 for CYCLE SETUP menu*

## TRIGGER



1. Press the MENU/EXIT key to access menu.
2. Use the ▲&▼arrow to highlight a selection.
3. Press the▶/SELECT to choose an item.
4. Use the ▲&▼arrow to highlight a selection.
5. Use the ▲&▼arrow to adjust the setting on a selected item.

*This function of each menu is listed page 20  
Please refer to page 20 for TRIGGER menu*

## VGA / DVI / HDMI Mode Tables

### VGA / DVI Mode

| <i>MODE</i> | <i>RESOLUTION</i> | <i>VERTICAL FREQUENCY (Hz)</i> |
|-------------|-------------------|--------------------------------|
| <i>VGA</i>  | <i>720X400</i>    | <i>70</i>                      |
|             | <i>640X480</i>    | <i>60 / 72 75</i>              |
| <i>SVGA</i> | <i>800X600</i>    | <i>50 / 60 / 72 / 75</i>       |
| <i>XGA</i>  | <i>1024X768</i>   | <i>50 / 60 / 75</i>            |
| <i>WXGA</i> | <i>1366X768</i>   | <i>60</i>                      |
| <i>UXGA</i> | <i>1600X1200</i>  | <i>60</i>                      |
| <i>HD</i>   | <i>1920X1080</i>  | <i>60</i>                      |

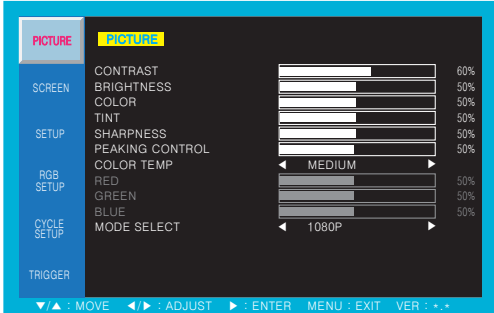
### HDMI Mode

| <i>MODE</i>       | <i>RESOLUTION</i> | <i>VERTICAL FREQUENCY (Hz)</i> |
|-------------------|-------------------|--------------------------------|
| <i>EDTV 480i</i>  | <i>720X480</i>    | <i>30</i>                      |
| <i>EDTV 576i</i>  | <i>720X576</i>    | <i>25</i>                      |
| <i>SDTV 480p</i>  | <i>720X480</i>    | <i>60</i>                      |
| <i>SDTV 576p</i>  | <i>720X576</i>    | <i>60</i>                      |
| <i>HDTV 720p</i>  | <i>1280X720</i>   | <i>50 / 60</i>                 |
| <i>HDTV 1080i</i> | <i>1920X1080</i>  | <i>30 / 25</i>                 |
| <i>HDTV 1080p</i> | <i>1920X1080</i>  | <i>50 / 60</i>                 |

*Note : Not all resolutions generated by your video source are available on the monitor.*

## 4-4 Menu Setting (DVI, HDMI Mode)

### PICTURE



1. Press the MENU/EXIT key to access menu.
2. Use the ▲&▼arrow to highlight a selection.
3. Press the ►/SELECT to choose an item.
4. Use the ▲&▼arrow to highlight a selection.
5. Use the ▲&▼arrow to adjust the setting on a selected item.

**CONTRAST** : Adjust visual color contrast  
**COLOR** : Adjust visual color of screen  
**SHARPNESS** : Adjust sharpness of screen

**BRIGHTNESS** : Adjust color brightness  
**TINT** : Adjust tint of color  
**COLOR TEMP** : Switch color temperature of screen

### CONTRAST



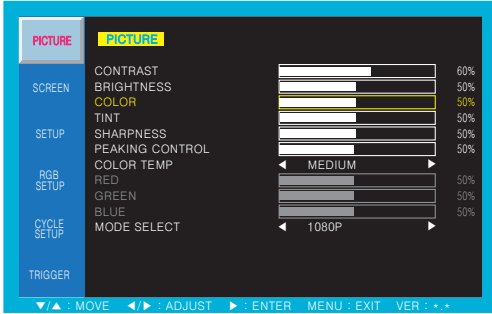
Default setting is 60% and adjustable from range of 0 to 100%

### BRIGHTNESS



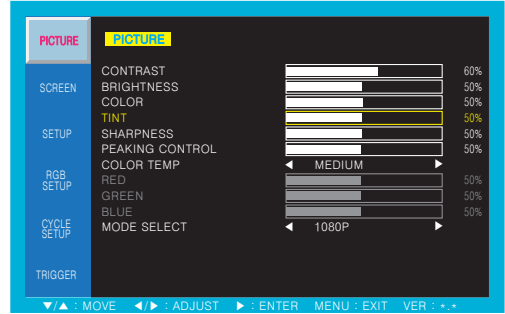
Default setting is 50% and adjustable from range of 0 to 100%

COLOR



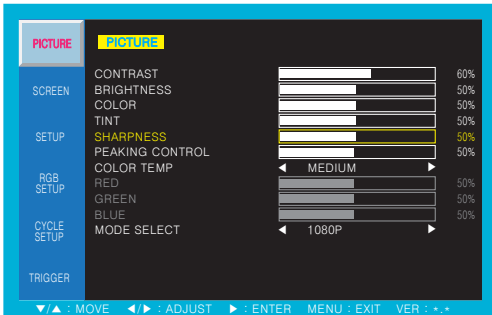
Default setting is 50% and adjustable from range of 0 to 100%

TINT



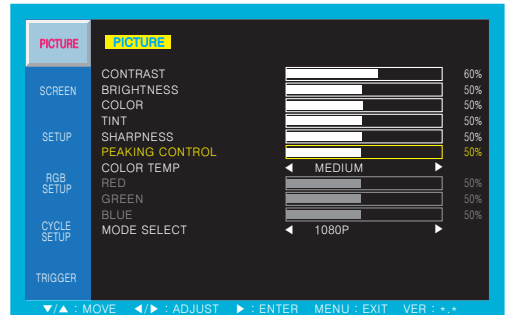
Default setting is 50% and adjustable from range of 0 to 100%

SHARPNESS



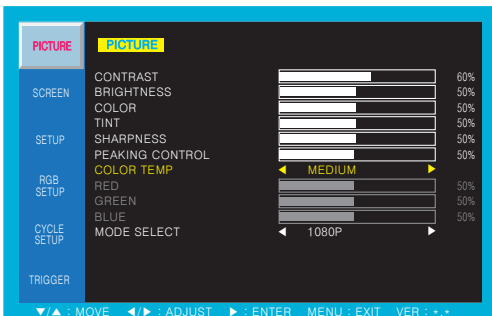
Default setting is 50% and adjustable from range of 0 to 100%

PEAKING CONTROL



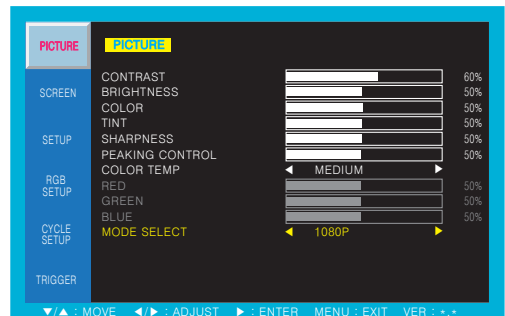
Default setting is 50% and adjustable from range of 0 to 100%

COLOR TEMP



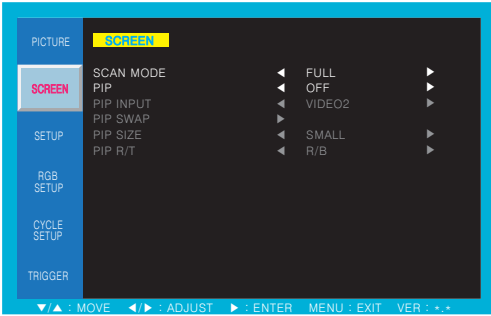
Default setting is MEDIUM and switch to WARM, USER and COOL color temperature options  
USER - Default setting of RED, GREEN, BLUE is 50% and adjustable from range of 0 to 100%

MODE SELECT



Default setting is 1080P and switch to 1920X1080 mode  
1080P - Bluray, DVD player and AV video equipment (2% Over Scan)  
1920X1080 - It is the fit image on PC In (Just/Real Scan)

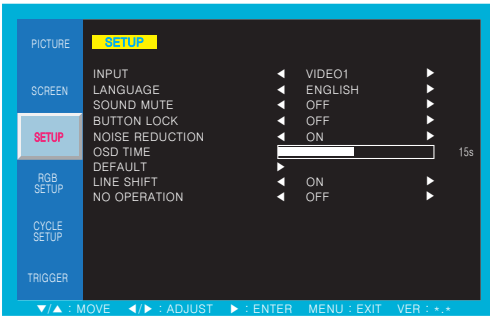
## SCREEN



1. Press the MENU/EXIT key to access menu.
2. Use the ▲&▼arrow to highlight a selection.
3. Press the▶/SELECT to choose an item.
4. Use the ▲&▼arrow to highlight a selection.
5. Use the ▲&▼arrow to adjust the setting on a selected item.

*This function of each menu is listed page 22  
Please refer to page 22 for SCREEN menu*

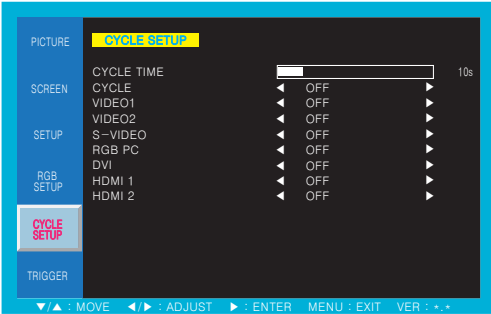
## SETUP



1. Press the MENU/EXIT key to access menu.
2. Use the ▲&▼arrow to highlight a selection.
3. Press the▶/SELECT to choose an item.
4. Use the ▲&▼arrow to highlight a selection.
5. Use the ▲&▼arrow to adjust the setting on a selected item.

*This function of each menu is listed page 16  
Please refer to page 16 for SETUP menu*

## CYCLE SETUP



1. Press the MENU/EXIT key to access menu.
2. Use the ▲&▼arrow to highlight a selection.
3. Press the▶/SELECT to choose an item.
4. Use the ▲&▼arrow to highlight a selection.
5. Use the ▲&▼arrow to adjust the setting on a selected item.

*This function of each menu is listed page 19  
Please refer to page 19 for CYCLE SETUP menu*

## TRIGGER



1. Press the MENU/EXIT key to access menu.
2. Use the ▲&▼arrow to highlight a selection.
3. Press the▶/SELECT to choose an item.
4. Use the ▲&▼arrow to highlight a selection.
5. Use the ▲&▼arrow to adjust the setting on a selected item.

*This function of each menu is listed page 20  
Please refer to page 20 for TRIGGER menu*







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