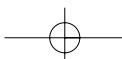


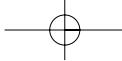
Index

Thank you for selecting our TFT LCD Monitor.
Please take a few minutes to read this User's Manual
for the best performance of this monitor.
Information in this manual may change without notice.

INDEX

1. Installation	3
1) Before Installation (Caution)	3
2) Package Check List	3
3) Monitor Parts	4~7
(1) Main Body (Front) : Control Buttons	4~7
(2) Main Body (Rear) : Multiple Input Terminal	4~7
2. Remote Control Functions	8
3. OSD (On Screen Display) Menu Functions	9
1) PC MONITOR MODE	9
2) COMPOSITE / S-VHS MODE	17
3) TV MODE	20
4. Specification	23





1. Installation

1) Before Installation (Caution)

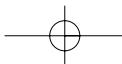
Before using your monitor, please read this manual carefully. In case of any problem on installation, contact the authorized service center or manufacturer.

- The monitor should be handled with caution and not be exposed to impact or shock.
- The display area is highly prone to scratching. Use a cleaner suggested by the authorized service center.
- Do not expose the monitor to high temperatures or humidity.
- There are no user serviceable parts inside your monitor.
- Risk of electric shock. Do not open your monitor case.

Before Installation/Package Check list

2) Package Check List

- TFT LCD Monitor - 1set
- Power Supply - 1pc
- AC Power Cord - 1pc
- VGA Cable - 1pc
- Remote Controller - 1pc (TM/VM)
- User's Manual - 1pc
- Audio Cable - 1pc

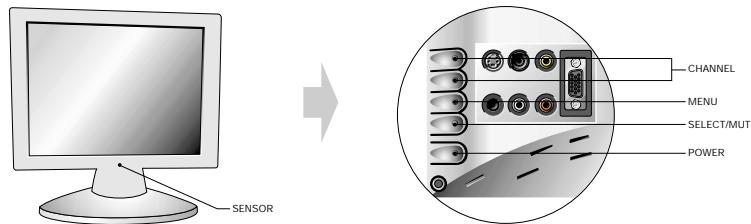


Monitor Parts

3) Monitor Parts (TM 1210)

(1) Main Body (Front)

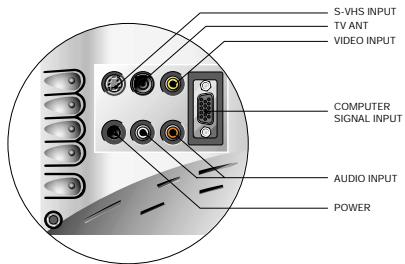
Control Buttons



- SELECT 1. Select a command function
 2. Return to menu
- Menu OSD Menu on/off
- POWER LCD monitor power on/off
- REMOTE CONTROL SENSOR for (TM/VM), LED for (MM)
- UP(▲) 1. Move to next item
 2. Increase the value of the selected item or select 'Yes'
- DOWN(▼) 1. Move to previous item
 2. Decrease the value of the selected item or select 'Yes'

(2) Main Body (Rear)

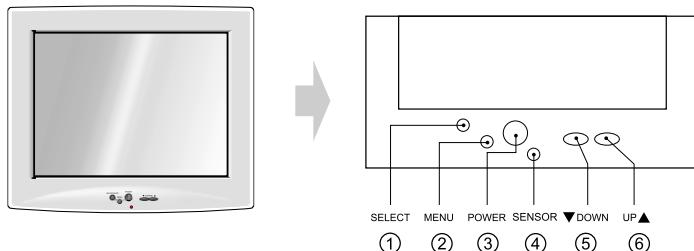
Multiple Input Terminal



3) Monitor Parts (TM 1510)

(1) Main Body (Front)

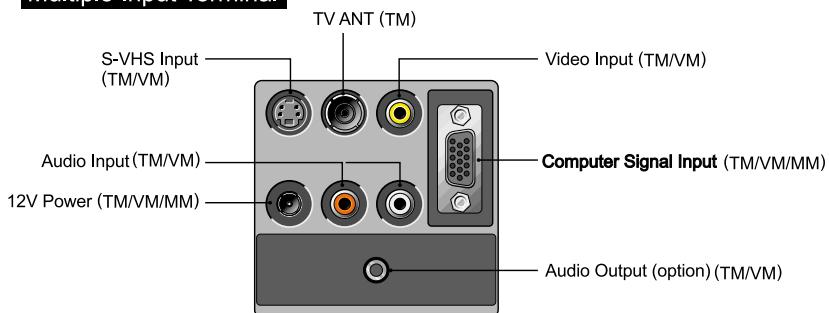
Control Buttons



- SELECT 1. Select a command function
2. Return to menu
- Menu OSD Menu on/off
- POWER LCD monitor power on/off
- REMOTE CONTROL SENSOR for (TM/VM), LED for (MM)
- UP(▲) 1. Move to next item
2. Increase the value of the selected item or select 'Yes'
- DOWN(▼) 1. Move to previous item
2. Decrease the value of the selected item or select 'Yes'

(2) Main Body (Rear)

Multiple Input Terminal



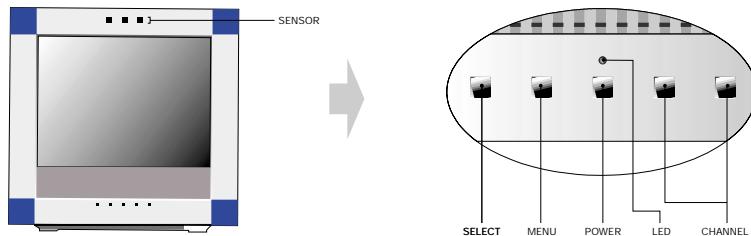
* MM: PC Monitor Only
VM : PC Monitor with Composite VIDEO + S-VHS
TM : PC Monitor with Composite VIDEO + S-VHS + TV

Monitor Parts

3) Monitor Parts (TM 1512 SILVER)

(1) Main Body (Front)

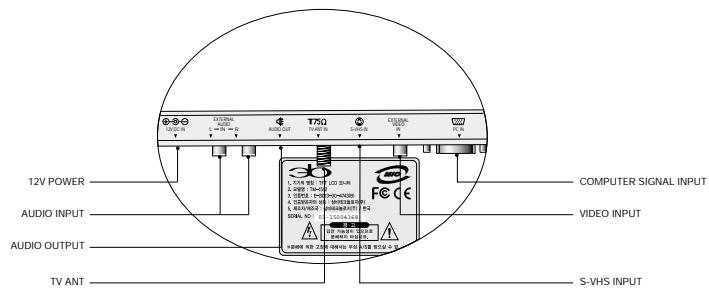
Control Buttons

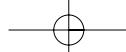


- SELECT 1. Select a command function
 2. Return to menu
- Menu OSD Menu on/off
- POWER LCD monitor power on/off
- REMOTE CONTROL SENSOR for (TM/VM), LED for (MM)
- UP(▲) 1. Move to next item
 2. Increase the value of the selected item or select 'Yes'
- DOWN(▼) 1. Move to previous item
 2. Decrease the value of the selected item or select 'Yes'

(2) Main Body (Rear)

Multiple Input Terminal

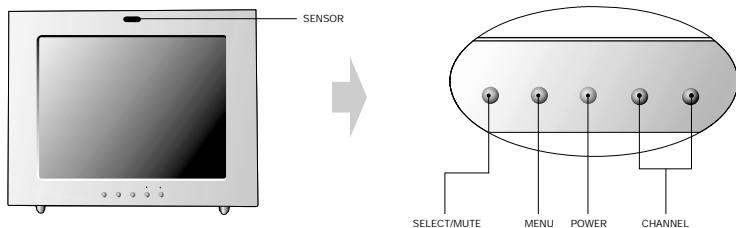




3) Monitor Parts (TM 1512 HAL)

(1) Main Body (Front)

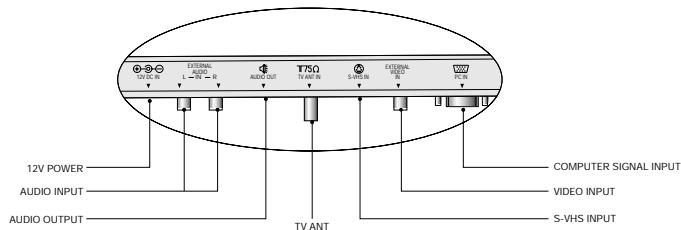
Control Buttons



- SELECT 1. Select a command function
 2. Return to menu
- Menu OSD Menu on/off
- POWER LCD monitor power on/off
- REMOTE CONTROL SENSOR for (TM/VM), LED for (MM)
- UP(▲) 1. Move to next item
 2. Increase the value of the selected item or select 'Yes'
- DOWN(▼) 1. Move to previous item
 2. Decrease the value of the selected item or select 'Yes'

(2) Main Body (Rear)

Multiple Input Terminal

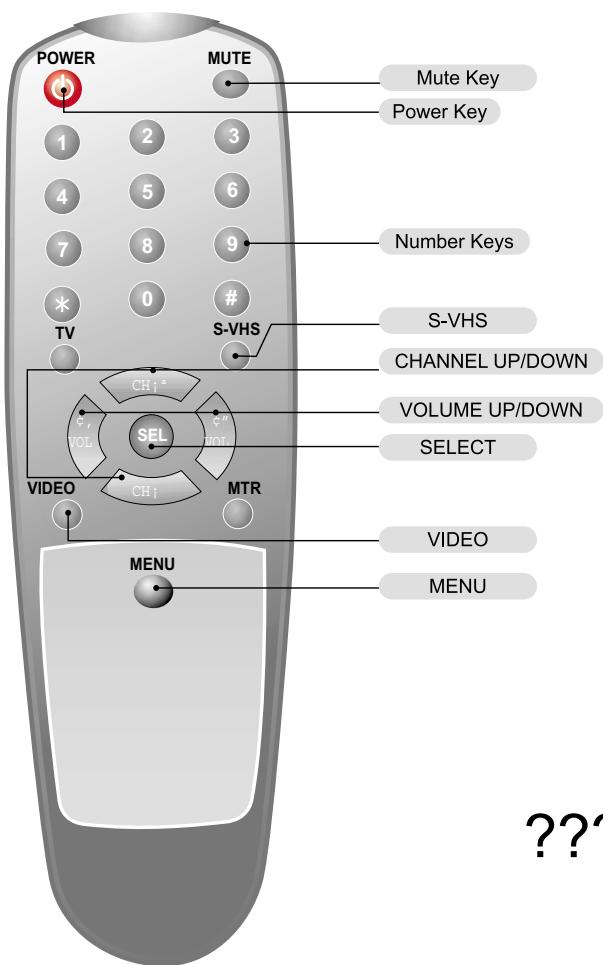


Remote Control Functions

2. Remote Control Functions

< Remote Controller >

<Key Control on LCD Monitor>



???

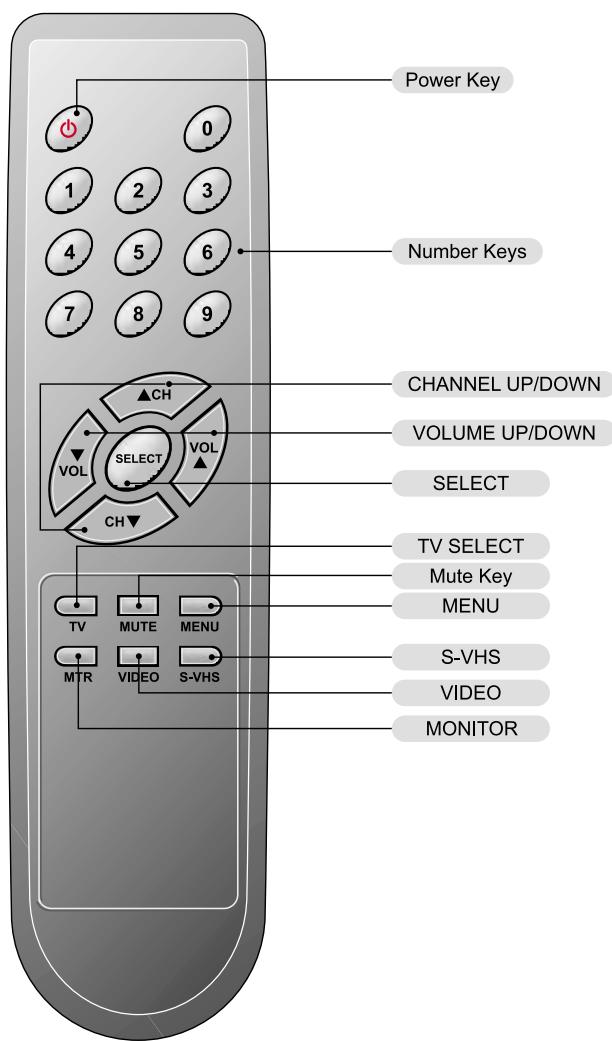
※Remote controller is supplied for TM & VM series.

Remote Control Functions

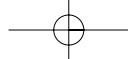
2. Remote Control Functions

< Remote Controller >

<Key Control on LCD Monitor>



※Remote controller is supplied for TM & VM series.



3. OSD (On Screen Display) Menu Functions

1) PC MONITOR MODE (TM / VM / MM series)

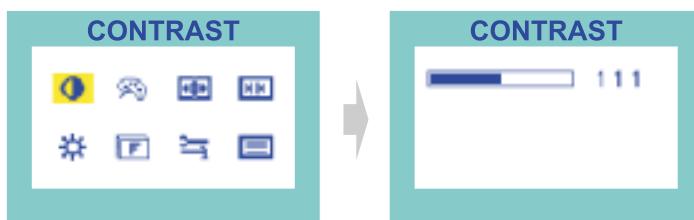
- By Remote Controller → Press MTR on remote control directly

Main Menu

	CONTRAST		BRIGHTNESS
	COLOR		VIDEO MODES
	POSITION		AUTO CONFIG
	IMAGE		SYSTEM

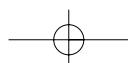
CONTRAST (Image contrast control)

Press MENU → Select [CONTRAST] by using the ▼, ▲ button → Press SELECT → Control [CONTRAST] using the ▼ ▲ buttons → Press SELECT



→ Press MENU to exit OSD Menu (It will disappear in a few seconds)

OSD (On Screen Display)

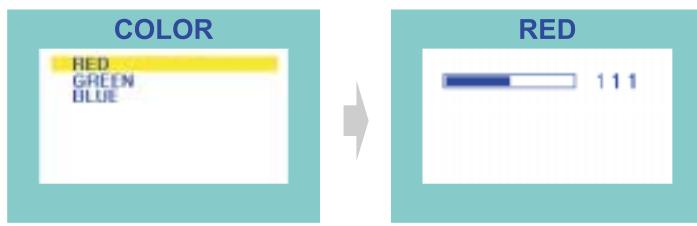


OSD (On Screen Display)**COLOR (Color balance control)**

Press MENU → Select [COLOR] by using the ▼, ▲ buttons → press SELECT



Control [COLOR] by using the ▼, ▲ buttons → Press SELECT → Press the ▼, ▲ buttons to select the item(Red, Green, Blue) you want to change.

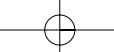


When you are finished with color control, please press SELECT to save. → Press the MENU to exit OSD menu

POSITION (H&V position, Clock & Phase control)

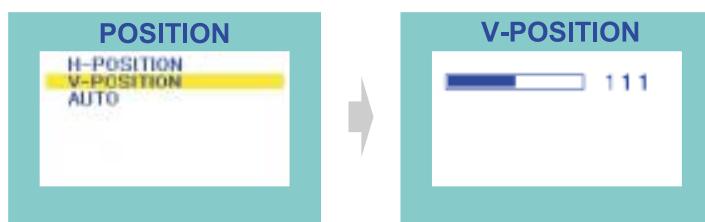
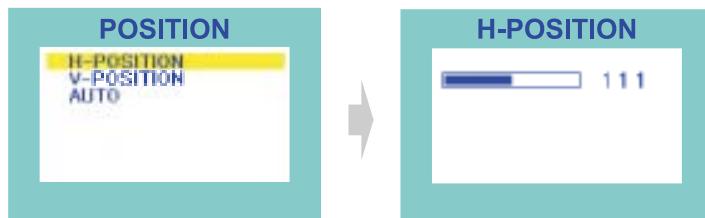
Press MENU → Select [POSITION] by using the ▼, ▲ button → Press SELECT





- HORIZONTAL & VERTICAL POSITION

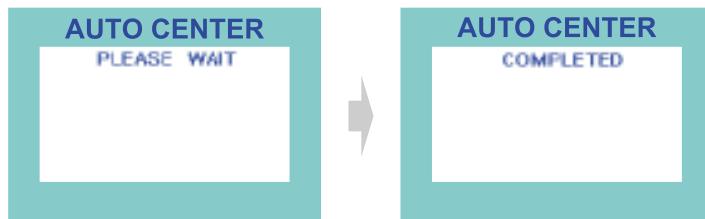
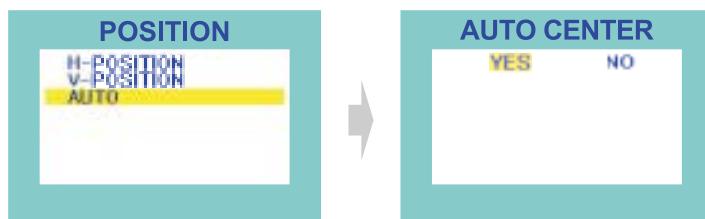
Control [H-POSITION] or [V-POSITION] by using ▼, ▲ buttons → Press SELECT



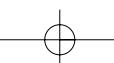
OSD (On Screen Display)

- AUTO

Select [AUTO] by using the ▼, ▲ buttons → Press SELECT → Select 'Yes' → Press MENU to exit OSD menu

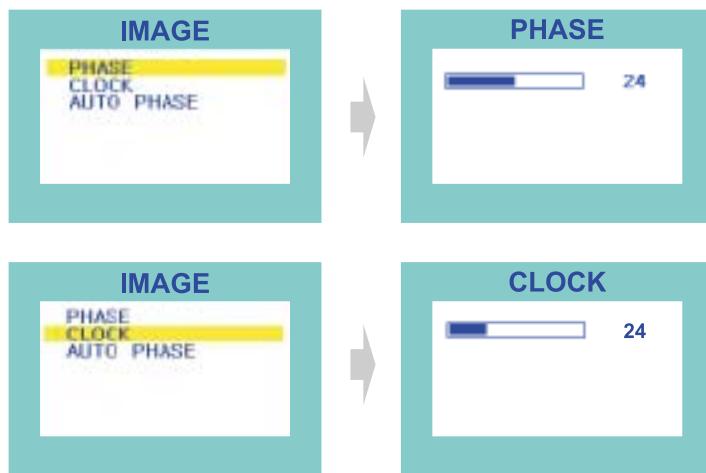
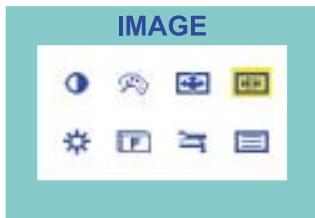


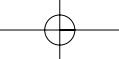
11



OSD (On Screen Display)**IMAGE (Image sharpness control and noise elimination)**

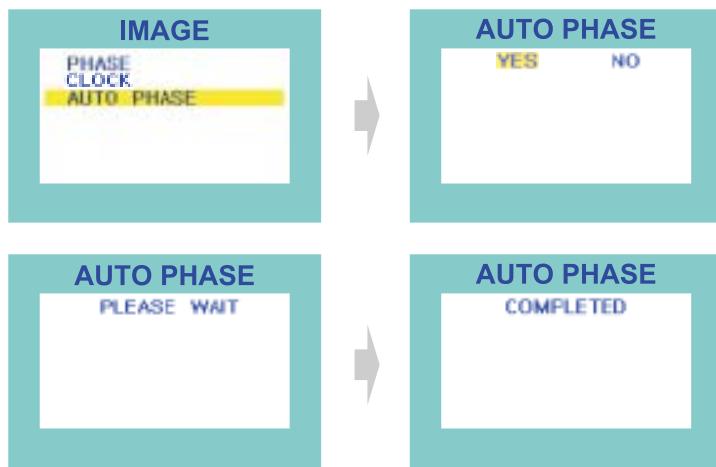
Press MENU→Select [IMAGE] by using the ▼, ▲ buttons→Press SELECT→Control [IMAGE] by using ▼, ▲ buttons→Press SELECT





- AUTO PHASE

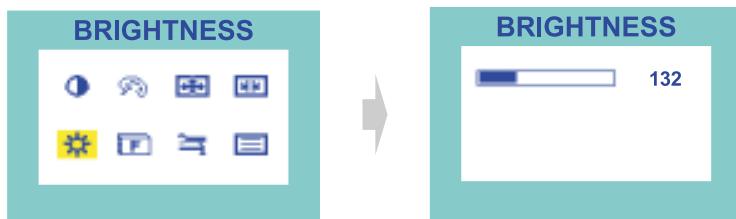
Select [AUTO PHASE] by using the ▼, ▲ buttons → Press SELECT →
Select 'Yes' → Press MENU to exit OSD Menu

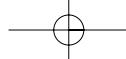


OSD (On Screen Display)

BRIGHTNESS (Image brightness control)

Press [MENU] → Select [BRIGHTNESS] by using the ▼, ▲ buttons
→ Control [BRIGHTNESS] by using the ▼, ▲ buttons → Press SELECT →
Press MENU to exit OSD menu

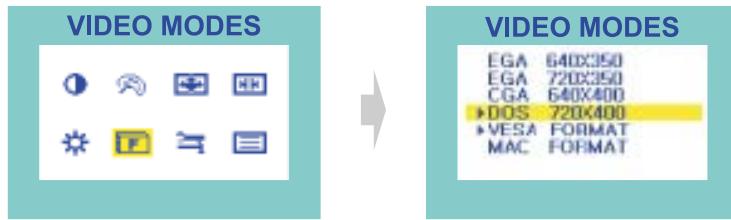




OSD (On Screen Display)

VIDEO MODE

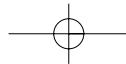
Press MENU → Select [VIDEO MODES] by using ▼, ▲ buttons → Press SELECT



Select VESA or MAC by using the ▼, ▲ buttons and select the MODE you want → Press SELECT and exit by MENU button

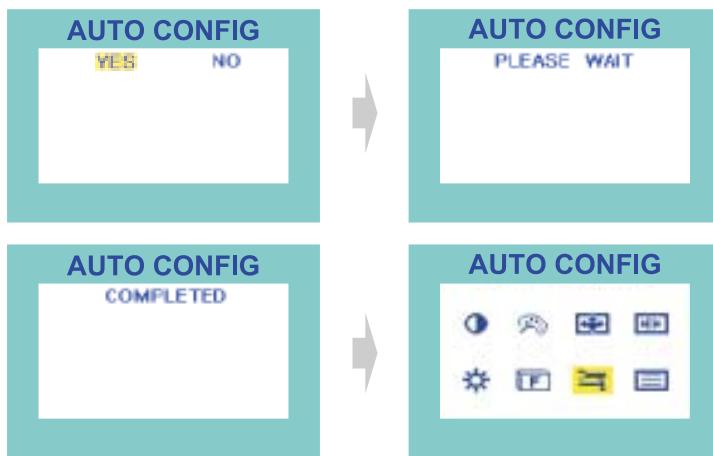
AUTO CONFIG

Automatic image sharpness control and noise elimination Items automatically adjustable : H-position, V-position, Clock, Phase (May require some manual adjustment)



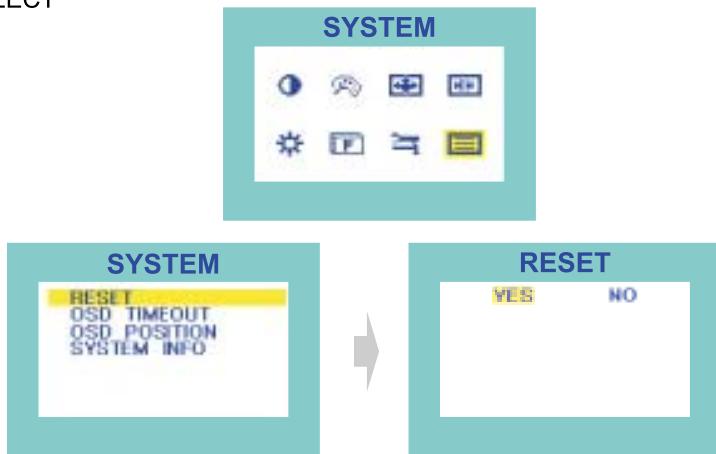
OSD (On Screen Display)

Press Menu → Select [AUTO CONFIG] by using the **▼, ▲** buttons → Press SELECT → Select 'YES' and press SELECT → Press MENU to exit OSD menu

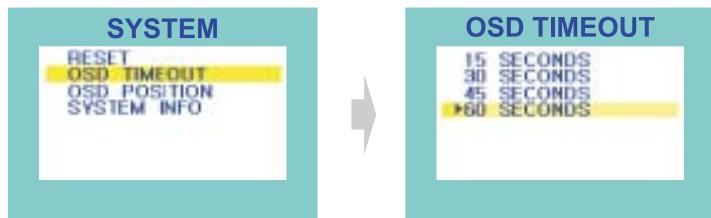


SYSTEM

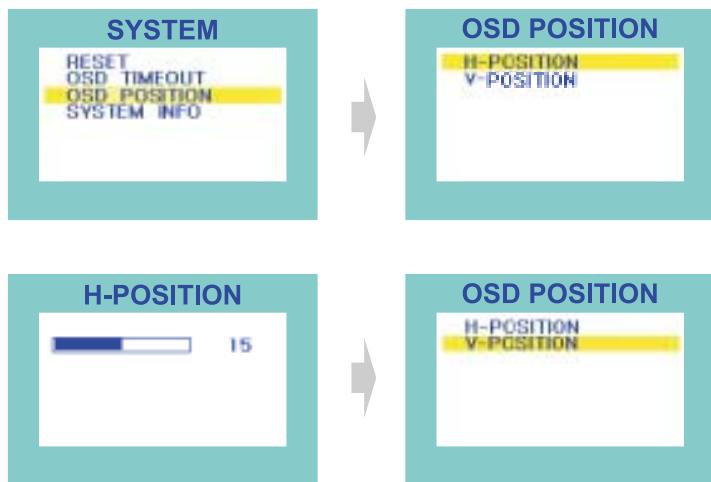
Press MENU and Select [SYSTEM] by using the **▼, ▲** buttons → Press SELECT

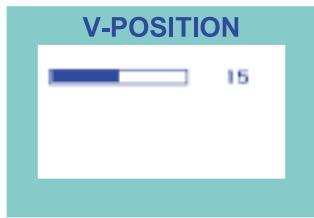


Select [OSD TIMEOUT] by using the **▼, ▲** buttons → Press SELECT → Select the time you want

OSD (On Screen Display)

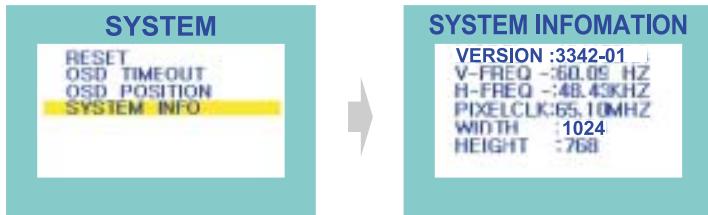
Select [OSD POSITION] by using the $\blacktriangle, \blacktriangledown$ buttons → Press SELECT →
Select [H-POSITION] or [V-POSITION] and Control by using the $\blacktriangle, \blacktriangledown$ buttons → Press SELECT → Back to SYSTEM Menu by MENU button





OSD (On Screen Display)

Select [SYSTEM INFO] by using the **▼, ▲** buttons → Press SELECT →
 Confirm [SYSTEM INFO] and back to SYSTEM Menu by MENU button →
 Press MENU to exit OSD Menu



2) COMPOSITE / S-VHS MODE

MAIN MENU

	VOLUME		CONTRAST
	INPUT		COLOR
	MODES		BRIGHTNESS
	SYSTEM		CH SEARCH

By Remote Controller

→ Press VIDEO / S-VHS on remote controller directly

BY SELECT KEY

→ In PC mode, you can change the mode to Composite/S-VHS

OSD (On Screen Display)

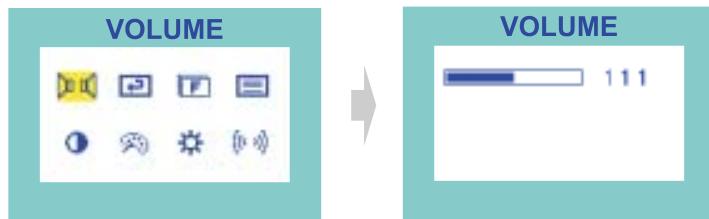
By Menu Key

Press MENU → Select [INPUT] by using ▼,▲ buttons → Select the mode you want → Press Menu to exit OSD menu.



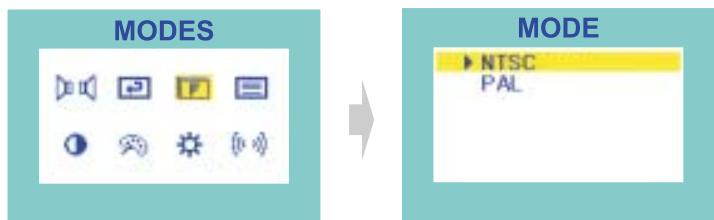
VOLUME (Control the Volume)

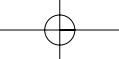
Press MENU → Select [VOLUME] → Control [VOLUME] by using ▼,▲ buttons → Press SELECT → Press MENU to exit OSD Menu



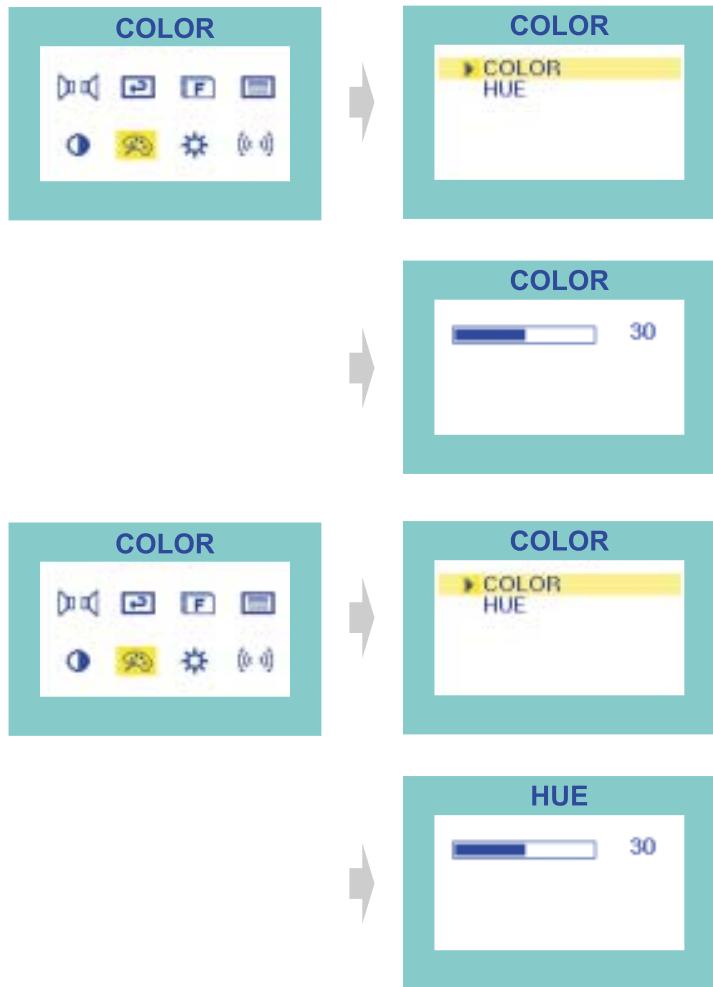
MODE

Press MENU → Select [MODE] by using ▼,▲ buttons → Press SELECT → Select the Video Mode by using ▼,▲ buttons → Press SELECT



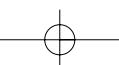
**COLOR**

Press MENU → Select [COLOR] by using ▼ ▲ buttons → Press SELECT → Select COLOR or HUE → Control [COLOR], [HUE] by using the ▼, ▲ buttons → Press SELECT → Press MENU to exit OSD Menu



OSD (On Screen Display)

*Other functions are same as MM.

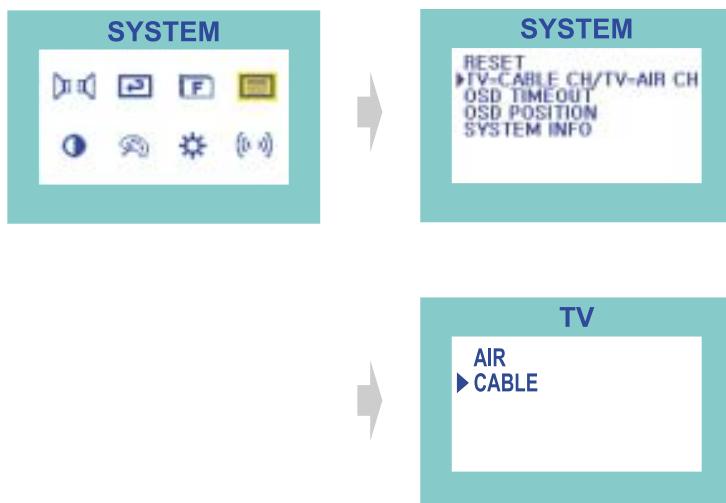


OSD (On Screen Display)**3) TV MODE****MAIN MENU**

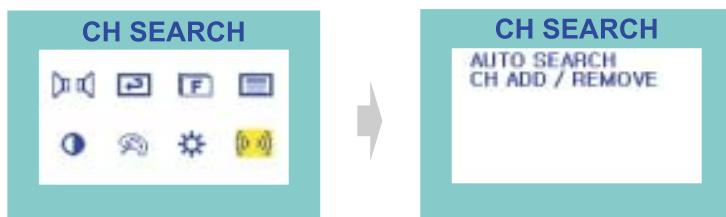
Main Menu are same as Composite / S-VHS menu.

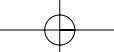
SYSTEM**- SELECT CABLE/AIR CH (Inapplicable for PAL BG & PAL DK)**

Press MENU → Select SYSTEM by using ▼, ▲ buttons → Press SELECT
 → Select TV=CABLE CH or TV=AIR CH → Press SELECT

**CH SEARCH**

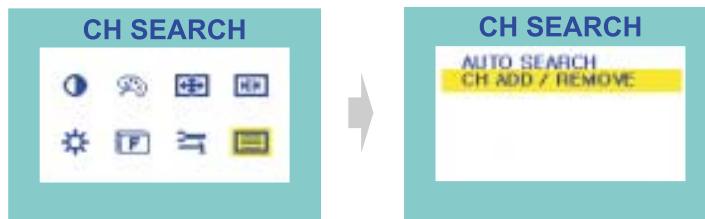
Press MENU → Select [CH SEARCH] by using ▼, ▲ buttons → Select Auto-Search or CH ADD/ REMOVE → Press MENU to exit OSD menu





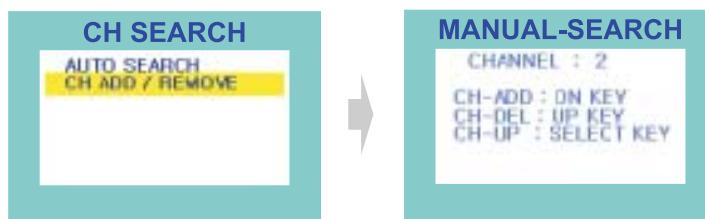
- CH ADD / REMOVE

Press MENU → Select [CH SEARCH] by using ▼,▲ buttons → Select CH ADD / REMOVE



- To ADD channel

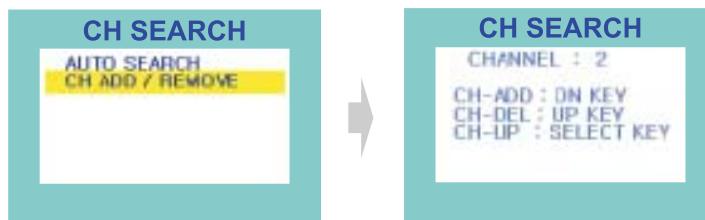
Use SELECT key to choose channel you want to add → press ▼ button to add channel → press menu to exit OSD menu



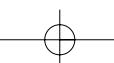
OSD (On Screen Display)

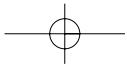
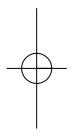
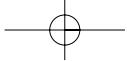
- To Delete channel

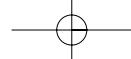
Use SELECT key to choose channel you want to remove → press ▲ button to remove channel → press menu to exit OSD menu by pressing SELECT button. You can increase the channel number, but can not reduce the channel number.



* Other Functions are same as VM.







Specification

GENERAL

- 1) TV COLOR SYSTEM : NTSC, PAL, SECAM, TRI
- 2) RECEIVING CHANNELS : US, (CCIR, Japan etc.)
- 3) VIDEO INPUT Color system : NTSC/PAL
- 4) INPUT MODE : XGA(1024×768)@75 Hz
- 5) DISPLAY : 12" TFT LCD, 15" TFT LCD
- 6) VIDEO IMPEDANCE : 75 ohm
- 7) SOUND OUTPUT : 2.5±0.3[W]/CH
- 8) SPEAKER : 70×40mm, 8 ohm
- 9) DIMENSIONS(W×H×D) : 12"(292×220×48), 15"(390×310×51)
- 10) WEIGHT(NET) : 12" (1.5kg), 15" (4.3kg)
- 11) OPERATING TEMPERATURE : 0°C~40°C
- 12) OPERATING HUMIDITY : 15%~85%
- 13) POWER SOURCE : INPUT - AC 100~240V, 50/60Hz
OUTPUT- DC 12V, 3.3A
- 14) POWER CONSUMPTION : 35W
- 15) ENCLOSED : PLASTIC(ABS)

FEATURES

- 1) CHANNEL AUTO PROGRAMMING
- 2) CHANNEL ADD/ DELETE
- 3) CHANNEL DIRECT FUNCTION (By 10 KEYS)
- 4) FULL FUNCTION REMOTE CONTROL [22KEYS]
- 5) CATV
- 6) AUDIO STEREO INPUT
- 7) RASTER MUTING AT NO SIGNAL
- 8) IMPROVEMENT CROSS COLOR BY COMB FILTER
- 9) NTSC/PAL COLOR
- 10) S-VHS SIGNAL
- 11) AUTO PHASE, POSITION, COLOR
(MODE MANUAL FUNCTION)
- 12) OSD
- 13) ZOOMING FUNCTION

JACK & TERMINALS

- 1) F Type jack (Back) - TV ANT INPUT
- 2) A/V IN RCA jack (Back)
- 3) AUDIO OUT STEREO jack (Back)
- 4) 4-P MINI DIN jack (Back) - S-VHS
- 5) 15-PIN MINI D-Sub (Back)

VIDEO

- 1) INPUT LEVEL : 1.1±0.2Vp-p at 75 ohm

AUDIO

- 1) INPUT LEVEL : RCA jack Type 400±50mVrms (at 1KHz)
- 2) OUTPUT LEVEL : RCA jack Type 400±50mVrms (at 1KHz)
- 3) SOUND DISTORTION : Less than 10%
- 4) HUM : Less Than 10mVrms
- 5) BUZZ : Less Than 200mVp-p

CONTROL & SWITCH

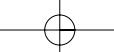
- 1) SUB POWER
- 2) MENU
- 3) SELET
- 4) UP (CHANNEL)
- 5) DOWN (CHANNEL)

INDICATOR

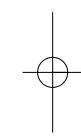
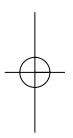
- 1) LED for PC Monitor
- 2) Sensor for TV

ACCESSORIES

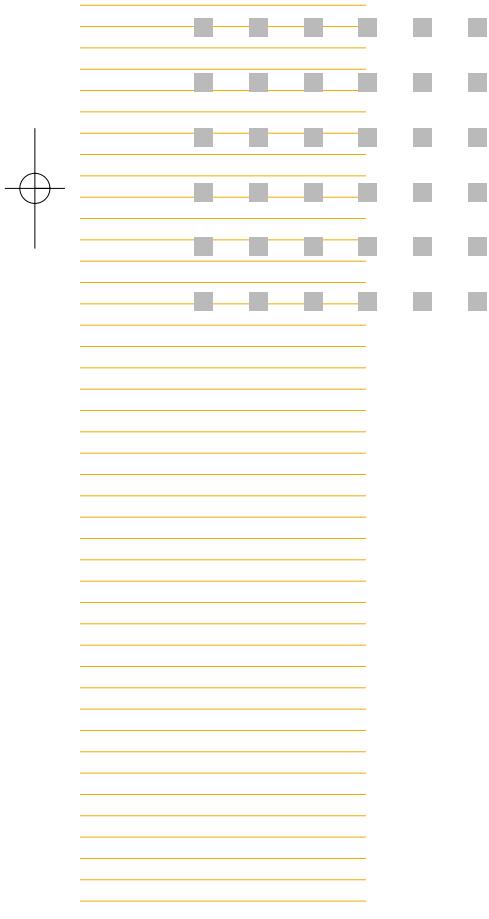
- 1) USER'S MANUAL
- 2) WARRANTY CARD
- 3) REMOTE CONTROLLER (TM/VM)
- 4) AC SMPS ADAPTOR
- 5) AC POWER CORD
- 6) VGA CABLE
- 7) AUDIO CABLE



Be amazed at how slim, light, and attractive it is!



High Resol

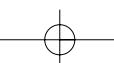


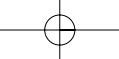
Saves your work space



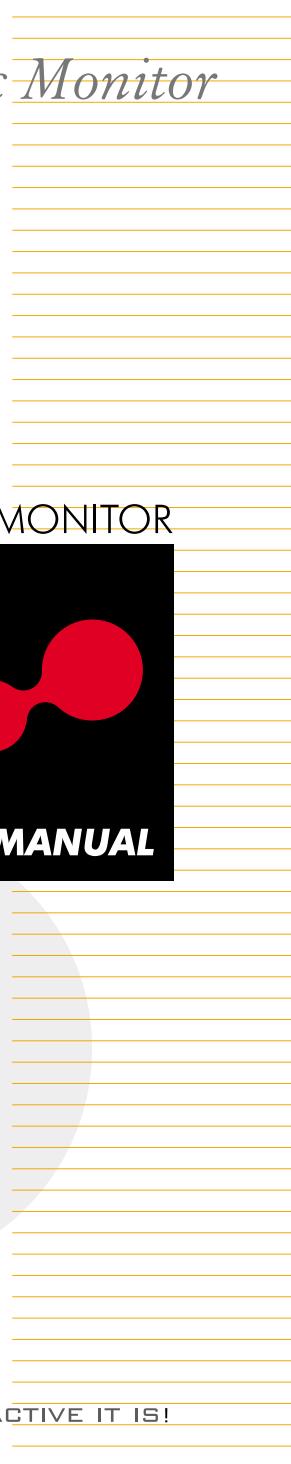
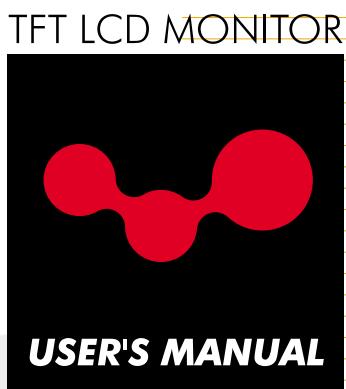
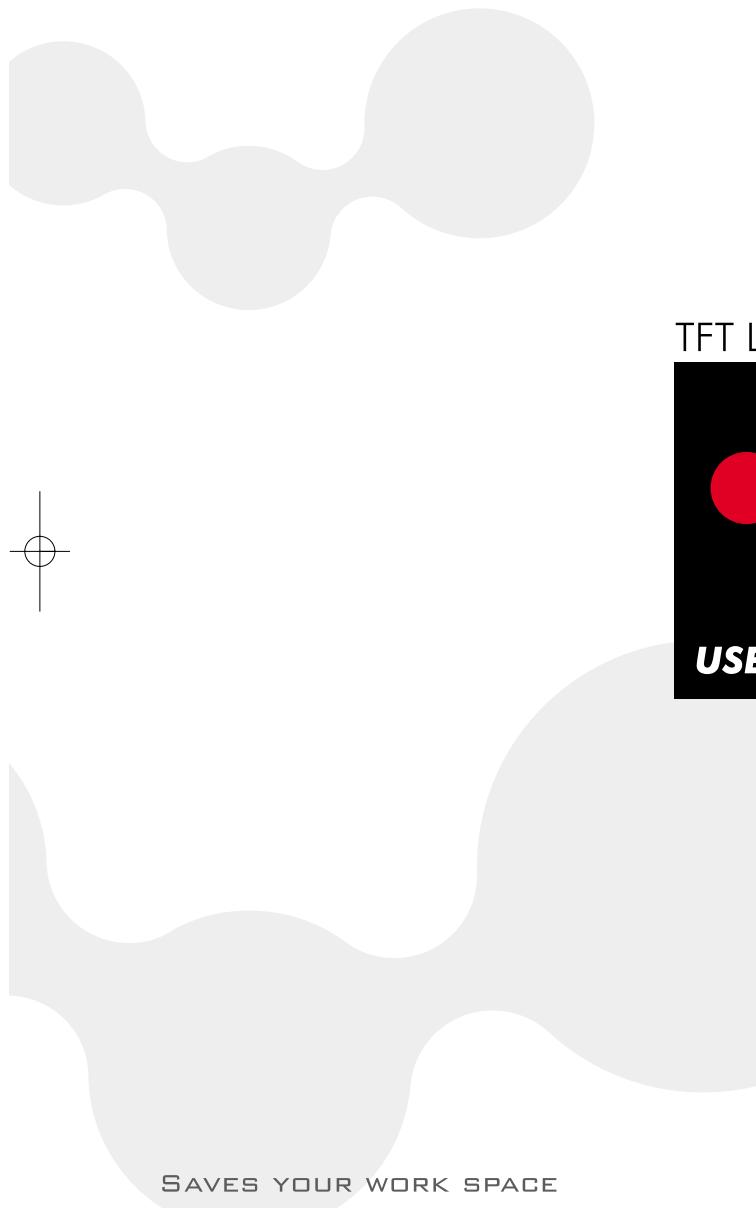
SAVES YOUR WORK
BE AMAZED AT HOW

MADE IN KOREA



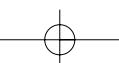


High Resolution Multi-sync Monitor



SAVES YOUR WORK SPACE

BE AMAZED AT HOW SLIM, LIGHT, AND ATTRACTIVE IT IS!



Additional information on TM2010HAL (20.1" diagonally)

In addition to [Page 20](#) on "3) TV MODE"

Main menu

Press "MENU" button and choose "SOUND" by using \blacktriangle \blacktriangledown buttons \rightarrow Press "SELECT"

\rightarrow Choose "MULTI SOUND" to show as follow



Possibly obtain the proper values by choosing one of icons as shown above diagrams

In addition to [Page 07](#) titled "Multiple Input Terminal",

Special features & connectors explanation:



1. 2 video in(puts) & 2 audio in(puts):

Makes you possibly connect with an S-VHS & a Composite Video simultaneously

Makes you possibly connect with 2 Composite Videos simultaneously

For Video 1 mode, press "Video" button on remote once and for Video 2 mode, press it once more

2. Video out(put):

Enjoy the same broadcasting or video by connecting with other monitors

3. Audio out(put):

Possibly connect with amplified speakers for the richer sound system

4. PC audio in(put):

Connect with computer hardware for sound from the monitor

5. Headphone:

Connect with your headset to enjoy the sound yourself

6. Additional features:

- PC in(put) for connecting with computer hardware
- S-VHS in(put) for connecting with DVD player
- ANT(enna) in(put) for connecting with TV to watch (cable) broadcasting
- Screen size: 20.1" / Aspect ratio: 4 by 3 / Brightness: 400 cd/m² / Resolution: VGA
- Nicam available / VESA wall mountable

For technical service, please contact the nearest dealers in your place.

<MEMO>

Additional information on TM2010HAL (20.1" diagonally)

In addition to [Page 20](#) on "3) TV MODE"

Main menu

Press "MENU" button and choose "SOUND" by using \blacktriangle \blacktriangledown buttons \rightarrow Press "SELECT"

\rightarrow Choose "MULTI SOUND" to show as follow



Possibly obtain the proper values by choosing one of icons as shown above diagrams

In addition to [Page 07](#) titled "Multiple Input Terminal",

Special features & connectors explanation:



1. 2 video in(puts) & 2 audio in(puts):

Makes you possibly connect with an S-VHS & a Composite Video simultaneously

Makes you possibly connect with 2 Composite Videos simultaneously

For Video 1 mode, press "Video" button on remote once and for Video 2 mode, press it once more

2. Video out(put):

Enjoy the same broadcasting or video by connecting with other monitors

3. Audio out(put):

Possibly connect with amplified speakers for the richer sound system

4. PC audio in(put):

Connect with computer hardware for sound from the monitor

5. Headphone:

Connect with your headset to enjoy the sound yourself

6. Additional features:

- PC in(put) for connecting with computer hardware
- S-VHS in(put) for connecting with DVD player
- ANT(enna) in(put) for connecting with TV to watch (cable) broadcasting
- Screen size: 20.1" / Aspect ratio: 4 by 3 / Brightness: 400 cd/m² / Resolution: VGA
- Nicam available / VESA wall mountable

For technical service, please contact the nearest dealers in your place.

<MEMO>