TFT-LCD Monitor
INSTRUCTION MANUAL

Please read this manual thoroughly before use, and keep it handy for future reference.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT
TO RAIN OR MOISTURE.
DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

CAUTION:

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 PERSONNEL.

Explanation of Graphical Symbols

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to 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.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

Precautions

■ Safety

Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by the qualified personnel before operating it any further.

Unplug the unit from the wall outlet if it is not going to be used for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.

■ Installation

Do not install the unit in an extremely hot or humid place or in a place subject to excessive dust or mechanical vibration.

The unit is not designed to be waterproof. Exposure to rain or water may damage the unit.

■ Cleaning

Clean the unit with a slightly damp soft cloth.

Use a mild household detergent. Never use strong solvents such as thinners or benzene as they might damage the finish of the unit.

Retain the original carton and packing materials for safe transport of this unit in the future.

FCC Compliance Statement

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,

This can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one on 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

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This product complies with other various regional and safety regulations such as FCC, CE. These certifications are noted on the product label.

Important Safeguards

1. READ INSTRUCTIONS -- All the safety and operating instructions should be read before the appliance is operated.

2. RETAIN INSTRUCTIONS -- The safety and operating instructions should be retained for future reference.

3. CLEANING -- Unplug video monitor or equipment from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

4. ATTACHMENTS -- Do not use attachments not recommended by the video monitor or equipment manufacturer as they may result in the risk of fire, electric shock or injury to persons.

5. WATER AND MOISTURE -- Do not use video monitor or equipment near water -- for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, or the like.

6. ACCESSORIES -- Do not place video monitor or equipment on an unstable cart, stand or table. The video monitor or equipment may fall, causing serious injury to a child or adult, and serious damage to the equipment. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

7. Video monitor or equipment and cart combinations should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn.

8. VENTILATION -- Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to ensure reliable operation of the video monitor or equipment and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the video monitor or equipment on a bed, sofa, rug, or other similar surface. Video monitor or equipment should never be placed near or over a radiator or heat register. Video monitor or equipment receiver should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

9. POWER SOURCES -- Video monitor or equipment should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your video monitor or equipment dealer or local power company. For video monitor or equipment designed to operate from battery power refer to the operating instructions.

10. GROUNDING OR POLARIZATION -- This video monitor may be equipped with a polarized alternating - current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

11. Alternate Warnings - This video monitor is equipped with a three-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

12. POWER CORDS -- Do not allow anything to rest on the power cord. Do not locate video monitor or equipment where the cord will be abused by persons walking on it.

13. HEED WARNINGS -- Follow all instructions marked on the video monitor or equipment.

14. LIGHTNING -- For added protection for video monitor or equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power-line surges.

15. OVERLOADING --Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

Important Safeguards

16. LIGHTNING -- For added protection for video monitor or equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power-line surges.

17. OVERLOADING --Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

18. OBJECT AND LIQUID ENTRY -- Never push objects of any kind into video monitor or equipment through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

19. SERVICING -- Do not attempt to service video monitor or equipment yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20. DAMAGE REQUIRING SERVICE -- Unplug video monitor or equipment from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    A. When the power-supply cord or the plug has been damaged.
    B. If liquid has spilled, or objects have fallen into the video product.
    C. If the video product has been exposed to rain or water.
    D. If the video product does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
    E. If the video product has been dropped, or the cabinet damaged.
    F. When the video product exhibits a distinct change in performance -- this indicates a need for service.

21. SAFETY CHECK -- Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.

22. FIELD INSTALLATION -- This installation should be made by a qualified service person and should conform to all local codes.

Installation Guide

Accessory

All of the accessories have been tested and qualified.

Do not use any non-qualified accessories with this LCD monitor.

Please check all accessories before installation LCD monitor.

● LCD monitor x 1

● AC power cord x 1

● VGA Cable x 1

● User manual x 1

Instruction Reading Guide

Forbid label:
Express user while operating or installing the screen , movement its is it can lead to the fact screen or show instability that pay to set for.

Danger label:
To draw installers attention that if caution is not observed potential injury to the installer or other persons could occur

Attention label:
The user should pay attention to the explanation in the manual for this item whilst configuring the monitor

Doubt label:
A warning that the installer may need to consult suitably qualified

Suggestion label:
The user may like to consider this for an optimal setting

Contents

Quick Installation

ⓘ   For instructions on wall mounting or rack mounting, see page 23 of this user guide.

1   Connect power cord

2   Connect video cable
   • Make sure both the LCD display and computer are turned OFF
   • Connect the video cable from the LCD display to the computer.

3   Turn ON LCD display and computer
   • Turn ON the LCD display, then turn ON the computer. This sequence (LCD display before computer) is important.

4   Windows users: Set the timing mode (resolution and refresh rate)
   Example: 1280 x 1024 @ 60 Hz.
   For instructions on changing the resolution and refresh rate, see the graphic card's user guide

   Installation is complete. Enjoy your new LCD display.

Features

- **General**
  - 1280 x RGB x 1024 TFT LCD Panel.
  - Advance control OSD menu.
  - High brightness.
  - High contrast.

- **PC**
  - 1 analog RGB signal input.
  - 1 Digital DVI signal input.
  - Compatible with SXGA (1280 x 1024) resolution.
  - Support vertical refresh rate up to 75 Hz for VESA standard specification.
  - Automatic detection or manual configuration of optimal refresh and synchronization rates for VGA and composite signals.
  - VGA screen horizontal / vertical position and width adjustment.

- **VIDEO**
  - 2 composite (CVBS) signal input.
  - 2 composite (CVBS) signal loop-out.
  - Video loop-out auto termination (75 Ohms).
  - 1 Y/C (S-Video) separate signal input.
  - Video input support NTSC / PAL / SECAM video standards.
  - High precision Y/C separation 3D comb filter for NTSC / PAL signal.
  - 3D concurrent noise reduction.
  - Time base correction (TBC).
  - Chroma transient improvement(CTI)
  - Build-in high quality 3D de-interlace for NTSC / PAL signal.
  - 9300K / 6500K / User custom color temperatures.
  - Provide PIP (Picture In Picture) function.
  - Provide VOV (Video On Video) function.
  - Support 3:2 and 2:2 pull-down for film source.
  - AGC (Auto Gain Control) function for all video signals.
  - Video screen horizontal / vertical position and width adjustment.
  - Provide over / under / full scan function.

- **AUDIO**
  - 2x stereo audio input by RCA Jack.
  - 2W+2W speaker.
  - Auto audio mute during video loss.
  - Balance, Bass and Treble audio controls.

- **Other**
  - Key-lock function.
  - Programmable power on option.
  - Signal auto searching.
  - Power latching.
  - Power failure auto recover.
  - Programmable sleep mode for screen.
  - Easily selectable video switching function.
  - Multi language (English, German, French, Spain, Japan, Chinese),
  - RS-485 interface for remote control.
  - ISP functions for upgrade firmware.
  - Support VESA 75 x 75 and VESA 100 x 100 mounting standard.
  - Support Desktop bracket.
  - Support Rack mount bracket (optional).
  - Wide voltage range AC 100~240V / 50/60Hz input.
  - Power consumption 40W@110VAC/60Hz.

Resolution Support

■ **VGA resolution table**

Resolution	Symbol	H Freq.	V Freq.	Pixel	Remark
640 x 480	640-60	31.469	59.941	25.175	VESA
640 x 480	640-72	37.861	72.810	31.500	VESA
640 x 480	640-75	37.500	75.000	31.500	VESA
800 x 600	800-56	35.156	56.250	36.000	VESA
800 x 600	800-60	37.879	60.317	40.000	VESA
800 x 600	800-72	48.077	72.188	50.000	VESA
800 x 600	800-75	46.875	75.000	49.500	VESA
1024 x 768	1024-60	48.363	60.004	65.000	VESA
1024 x 768	1024-70	56.476	70.069	75.000	VESA
1024 x 768	1024-75	60.023	75.029	78.750	VESA
1280 x 1024	1280-60	63.981	60.020	108.000	VESA
1280 x 1024	1280-75	79.976	75.024	135.000	VESA

■ **DVI resolution table**

| Resolution	Symbol	H Freq.	V Freq.	Pixel	Remark
640 x 480	640-60	31.469	59.941	25.175	VESA
640 x 480	640-72	37.861	72.810	31.500	VESA
640 x 480	640-75	37.500	75.000	31.500	VESA
800 x 600	800-56	35.156	56.250	36.000	VESA
800 x 600	800-60	37.879	60.317	40.000	VESA
800 x 600	800-72	48.077	72.188	50.000	VESA
800 x 600	800-75	46.875	75.000	49.500	VESA
1024 x 768	1024-60	48.363	60.004	65.000	VESA
1024 x 768	1024-70	56.476	70.069	75.000	VESA
1024 x 768	1024-75	60.023	75.029	78.750	VESA
1280 x 1024	1280-60	63.981	60.020	108.000	VESA
1280 x 1024	1280-75	79.976	75.024	135.000	VESA

Please refer to page 18 for information on automatic input sync optimization.

Please note, selecting frequencies outside these ranges may result in an abnormal image or damage to the monitor

Operating Instructions - Controls
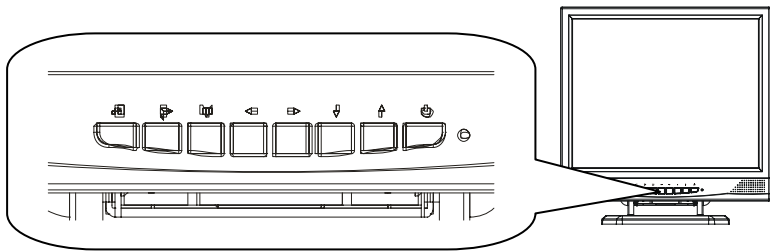
⏻ Power

        Monitor ON /OFF. If switched OFF with this button, monitor will be in

        standby state.

        Light indicate:

                Green – Power On

                Yellow – Standby mode.

                Red – Power Off

⬆ Adjust UP / PIP

        OSD Menu mode - select item above.

        Normal operating mode - Turn PIP ON/OFF, select PIP source.

⬇ Adjust Down / Scan Mode

        OSD Menu mode - select item below.

        Normal operating mode - Select input sequence.

➡ Adjust RIGHT / Volume Up

        OSD Menu mode - select item to the right

        Normal operating mode - Increase Volume level.

⬅ Adjust LEFT / Volume Down

        OSD Menu mode - select item to the left.

        Normal operating mode - Decrease volume level.

📖 MENU

        OSD menu ON or ENTER control.

⮐ EXIT / Auto

        OSD Menu mode - exit to previous menu. Exit top menu.

        Normal operating mode - Force auto sync rate adjustment for VGA input.

⬕ INPUT

        Select input from CVBS1, CVBS2, S-Video, VGA and DVI channel.

Backside Connections
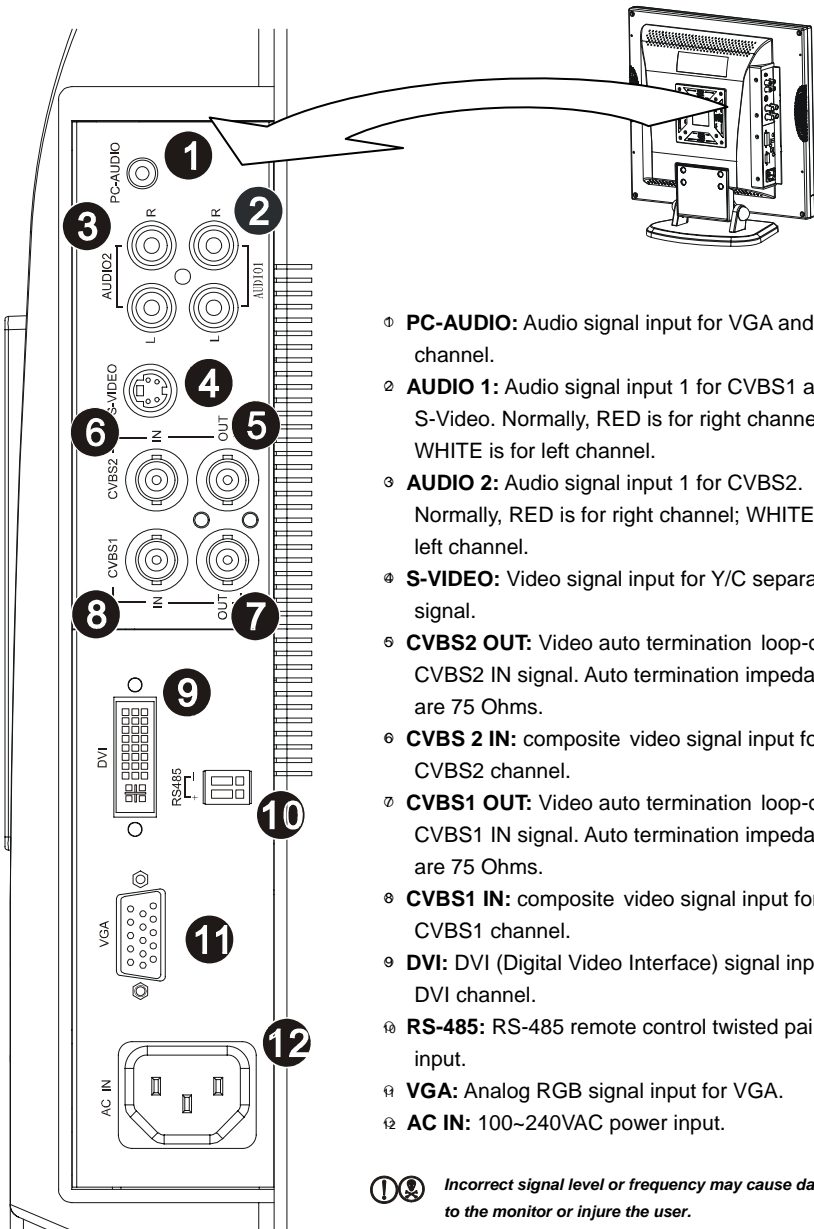
① **PC-AUDIO:** Audio signal input for VGA and DVI channel.

② **AUDIO 1:** Audio signal input 1 for CVBS1 and S-Video. Normally, RED is for right channel; WHITE is for left channel.

③ **AUDIO 2:** Audio signal input 1 for CVBS2. Normally, RED is for right channel; WHITE is for left channel.

④ **S-VIDEO:** Video signal input for Y/C separate signal.

⑤ **CVBS2 OUT:** Video auto termination loop-out for CVBS2 IN signal. Auto termination impedance are 75 Ohms.

⑥ **CVBS 2 IN:** composite video signal input for CVBS2 channel.

⑦ **CVBS1 OUT:** Video auto termination loop-out for CVBS1 IN signal. Auto termination impedance are 75 Ohms.

⑧ **CVBS1 IN:** composite video signal input for CVBS1 channel.

⑨ **DVI:** DVI (Digital Video Interface) signal input for DVI channel.

⑩ **RS-485:** RS-485 remote control twisted pair input.

⑪ **VGA:** Analog RGB signal input for VGA.

⑫ **AC IN:** 100~240VAC power input.

Incorrect signal level or frequency may cause damage to the monitor or injure the user.

OSD Architecture

OSD Menu Tree

General	CVBS	VGA / DVI	Audio	Advanced	**Layer 1**

Layer 2

General	CVBS	VGA / DVI	Audio	Advanced
Input auto search	Brightness	Input sync. auto	Mute	PIP setup
Power on default	Contrast	Brightness	Volume	RS-485 setup
Auto power on	Color	Contrast	Treble	
Language	Hue	Color temperature	Bass	
Key lock	Sharpness	Advanced setup	Balance	
Back light	Color temperature			
Advanced setup	Advanced setup			

Layer 3

General	CVBS	VGA / DVI	Audio	Advanced
V-loss setup	Scan mode	H-position	RS-485 format	Source
OSD position	H-position	V-position	ID address	Swap
Logo display	V-position	Picture stretch	Baud rate	Bezel size
Display	Comb filter	Input sync. manual		Size
		White balance		H-position
				V-position

OSD Architecture

General Setup
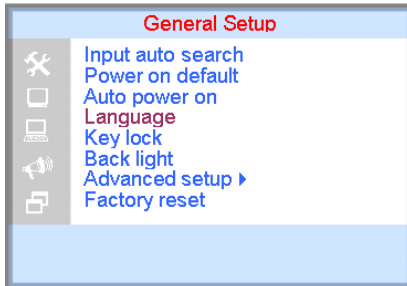
- Input auto search: Allows monitor to search for an input signal at power on.

  ⓘ *This function is only available once when monitor turned ON.*

- Power on default: Set the signal input priority at power ON.

CVBS1:	Set channel to AV1 when power is turned ON.
CVBS2:	Set channel to AV2 when power is turned ON.
S-Video:	Set channel to S-Video when power is turned ON.
VGA:	Set channel to VGA when power is turned ON.
DVI:	Set channel to DVI when power is turned ON.
None:	No changing.

- Auto power on: Allows the monitor to memorize the power status prior to power failure and resume the same status on restoration of power.

ON:	Set ON to enable the function.
OFF:	Set OFF to disable the function.

  💡 *Suggest set Auto power on to "ON".*

- Language (Reserved): Allows user to select the OSD menu Languages in English, German, French, Spain, Japan and Chinese.

- Key lock: This function is from preventing an unauthorized person to accessing the OSD settings.

ON:	Key-lock function enabled.
OFF:	Key-lock function disabled.

  💡 *If key-lock function is enabled, the monitor will auto lock its keypad 1 minute after the last key press.*
  To unlock the keypad, press and hold the menu button for 5 seconds.

- Back light: Allows user to adjust panel backlight level.

- Factory reset: Reset the monitor to the original factory settings.
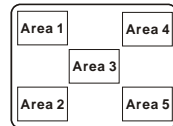
OSD Architecture

Advanced General Setup
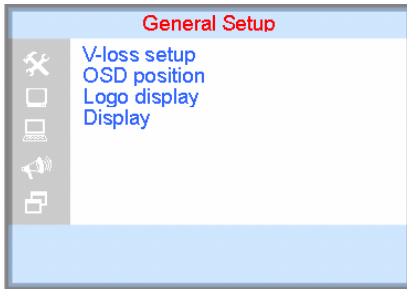
- V-loss setup: Places monitor into sleep mode after video loss. Delay period is defined by slide bar.

  ⓘ *When the slide bar is set to 0, video loss sleep is disabled and its status is shown as below:*
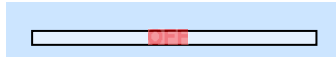
- OSD Position: This feature allows user configuration of OSD menu position on screen.

Area1:	OSD menu on top-left.
Area2:	OSD menu on bottom-left.
Area3:	OSD menu on screen center
Area4:	OSD menu on top-right.
Area5:	OSD menu on bottom-right.

- Logo Display: This feature allows user turn on/off company logo at power on.
  - ON: Show company logo at power on.
  - OFF: Hide company logo.

- Display: Show / Hide channel title.
  - ON: Show channel title
  - OFF: Hide channel title

OSD Architecture

CVBS / S-Video Setup

- ●   Brightness: Adjusts the overall picture shade and brightness.

  > *Use the Brightness to make details in the dark areas of the picture just visible, and Contrast to "brighten" the picture without causing noses and foreheads of people to turn white.*

- ●   Contrast: Permits adjustment for contrast between light or dark areas of the picture.

- ●   Color: Adds color to the black and white picture content (of a color signal), and is usually set for viewer's preference in color saturation.

- ●   Hue: Adjusts the shade of all the colors on the screen, but is most noticeable to the eye in reds and yellows, and is also usually set for pleasing face tones (NTSC only).

- ●   Sharpness: Sets the desired sharpness of the image.

- ●   Color temperature: Selects color temperature of 6500°K, 9300°K or User.

- ●   Factory reset: Reset the monitor to the original factory settings.

OSD Architecture

CVBS / S-Video Advanced Setup
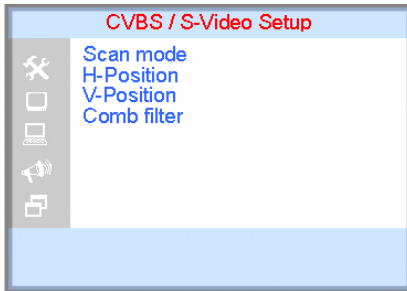
- Scan Mode: This function allows user to select monitor display format.

  Under: this feature displays the picture with all extremities of the source image visible (reduced size)

  Over: this feature displays the picture with all extremities of the source image hidden (increased size)

  Full: this feature displays the picture with all extremities of the source image aligned with the visible area of the screen (full size)

- H-position: Adjusts horizontal position of image.

- V-position: Adjusts vertical position of image.

- Comb filter: Allows the user to manually turn the video comb filter ON/OFF.

  ON: Enable comb filter.

  OFF: Disable comb filter.

  Suggestion: set Comb filter to "ON".

OSD Architecture

VGA / DVI Setup
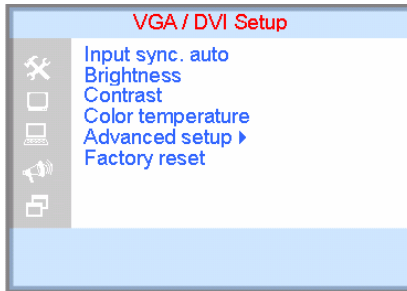
- Input sync. auto: This feature all user to auto-optimize displaying picture under VGA mode.

- Brightness: Adjusts the overall picture shade and brightness.

  Use the Brightness to make details in the dark areas of the picture just visible, and Contrast to "brighten" the picture without causing noses and foreheads of people to turn white.

- Contrast: Permits adjustment for contrast between light or dark areas of the picture.

- Color temperature: Selects color temperature of 6500°K, 9300°K or User.

- Factory reset: Reset the monitor to the original factory settings.

  Input sync. auto, Brightness, Contrast and Factory reset, these functions will be disabled at DVI mode.

OSD Architecture

VGA / DVI Advanced Setup
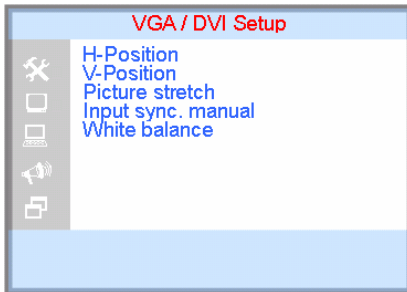
- H-Position: Adjusts horizontal position of image.

- V-Position: Adjusts vertical position of image.

- Picture stretch: Is used to adjust the width of the image. It alters the frequency of the pixel clock across one line and there for may affect picture position as well as width.

  ⓘ *Improper adjustment will cause image loss.*

- Input sync. manual: Is used to adjust for optimum image clarity. It adjusts the sampling phase of each line. When incorrectly set, the image may be unclear.

  ⓘ *Improper adjustment will cause image loss.*

- White balance: Optimizes the white reference for grayscale images.

  ⓘ *H-Position, V-Position, Picture stretch, Input sync. manual and White balance, these function will be disabled at DVI mode.*

OSD Architecture

Audio Setup

- Mute: Select Audio Mute.

- Volume: Set audio volume level for internal speakers.

- Treble: Adjusts the treble content of the sound from the internal speakers.

- Bass: Adjusts the bass content of the sound from the internal speakers.

- Balance: Adjusts the audio speakers' balance.

- Factory reset: Reset the monitor to the original factory settings.

OSD Architecture

PIP Setup
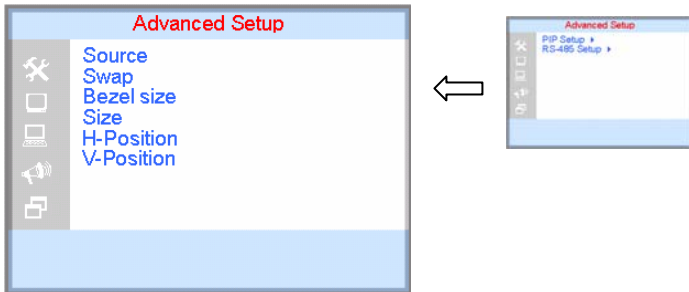
- Source: This feature allows a user to select the video input signal to be displayed when in PIP mode.

CVBS1:	Turn on the PIP, and set PIP channel source to CVBS1.
CVBS2:	Turn on the PIP, and set PIP channel source to CVBS2.
S-Video:	Turn on the PIP, and set PIP channel source to S-Video.
OFF:	Turn off PIP window.

- Swap: swaps the main screen image with the content of the PIP.

- Bezel size: Adjusts the thickness of the PIP window border.

- Size: Adjusts the overall size of the PIP window.

- H-Position: Adjusts the horizontal position of the PIP window.

- V-Position: Adjusts the vertical position of the PIP window.

OSD Architecture

RS-485 Setup
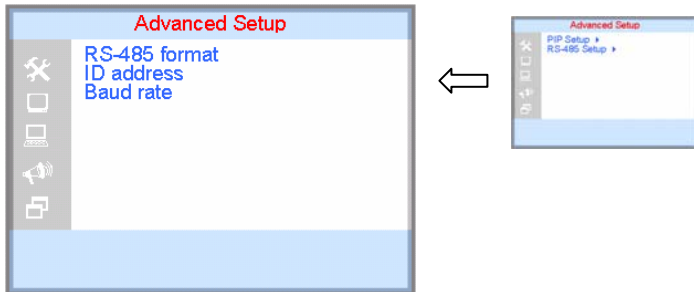
- RS-485 format: Enabled / Disable RS-485 protocol format.

- ID address: Sets RS485 ID for remote connection and control.

- Baud rate: Displays RS485 baud rate for remote connection and control. (Note, this is not user configurable)

Refer to the pin assignment on right for the correct connection.
Used 0.654 conductor twisted pair cable for an extended distances up to 1000m.
Contact your sales representatives for the details on the communication functions such as the protocol of the device.

RS485
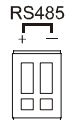
Mounting Guide

Desktop

1   With the monitor on a flat surface, hold the base at one side with one hand and draw the screen upwards with the other hand, until the required tilt angle is achieved.
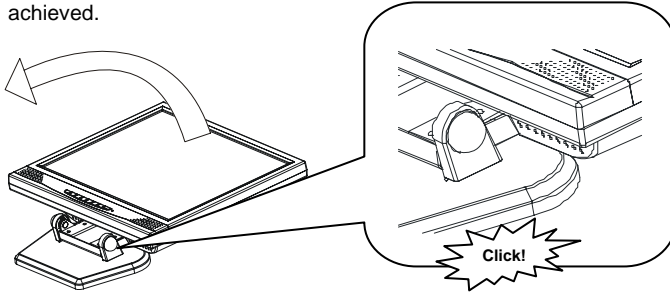
Click!

💡 **A noticeable "click" will be heard, and felt, as the screen is moved into the normal range of tilt.(For detailed range, see image below)**

⊘ **Do not touch the display area of the screen with hands, fingers or any sharp object, or use tools to raise the screen, otherwise damage to the screen may occur.**

🚫 **Do not place fingers into the hinge area, otherwise injury may occur when raising the screen.**

❗ **Only attempt to raise the screen on a flat, level and stable surface, such as a tabletop.**

❓ **If you have any support questions relating to this operation, please contact Tyco Technical Support, who will be pleased to assist you.**

2   When using the desk stand, only operate the panel on a flat surface, which is no more than 10 degrees from level.

3   Optimum viewing angles are obtained when viewing the monitor when it is set between +20º and -5º from vertical.
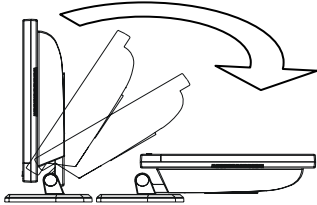

💡 **Adjust the tilt angle for optimum image quality.**
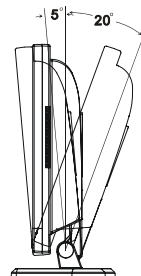
Mounting Guide

VESA Bracket

1   Holding the front of the base with one hand, use the other hand to push the top
     of the casing back, until it lies flat.

ⓧ   **Do not insert fingers onto the hinge
     area, otherwise injury may occur when
     folding down the screen.**

ⓘ   **The screen should only be folded
   down of a flat, stable, level surface.**

2   Lay the LCD display face down on a towel or blanket. Note the 4 screws that
     secure the hinge on the lower part of the back casing. These may be removed
     to release the desk mount bracket if required.

3   Attach a VESA compatible mounting bracket to the
     appropriate set of holes (both 75mm x 75mm and
     100mm x 100mm are supported)

4 screw for VESA 75

4 screw for VESA 100
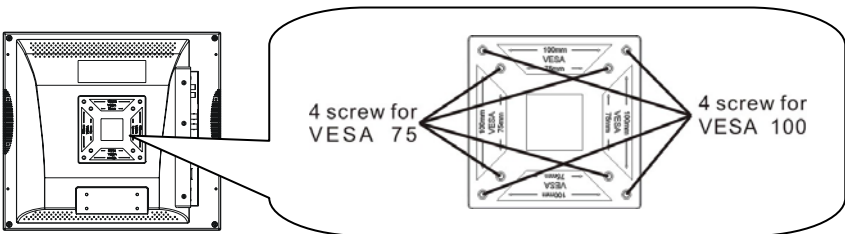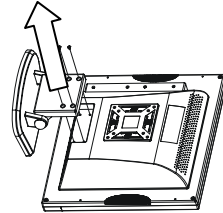
ⓘ   **Use only M4 x 12mm screws to mount the VESA bracket, failure to
     observe this may cause serious injury.**

ⓧ   **Ensure that the VESA bracket has an adequate size mounting plate,
     screws and or fixings to support the weight of the monitor and bracket
     to the surface to which it is being attached.
     Failure to observe this may cause serious injury.**

💡   **If there is any doubt of the suitability of a mount or fixing method, a
     suitably qualified technician should be consulted.**

The depth of VESA
hole is 12mm .

M4

3

12(MAX)
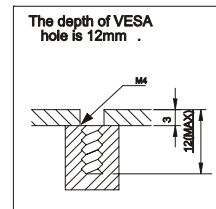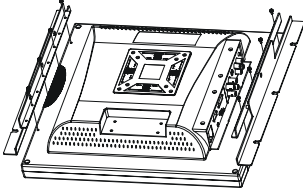
Mounting Guide

Rack Mount Bracket

1   Remove the desk mount bracket as detailed in the previous section.

2   Fix the rack mount brackets to the two sides of the monitor as shown below.

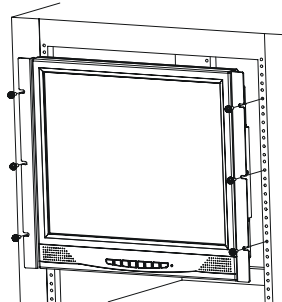**Use the supplied M3 screws to mount the monitor to the brackets. Failure to observe this may result in serious injury.**
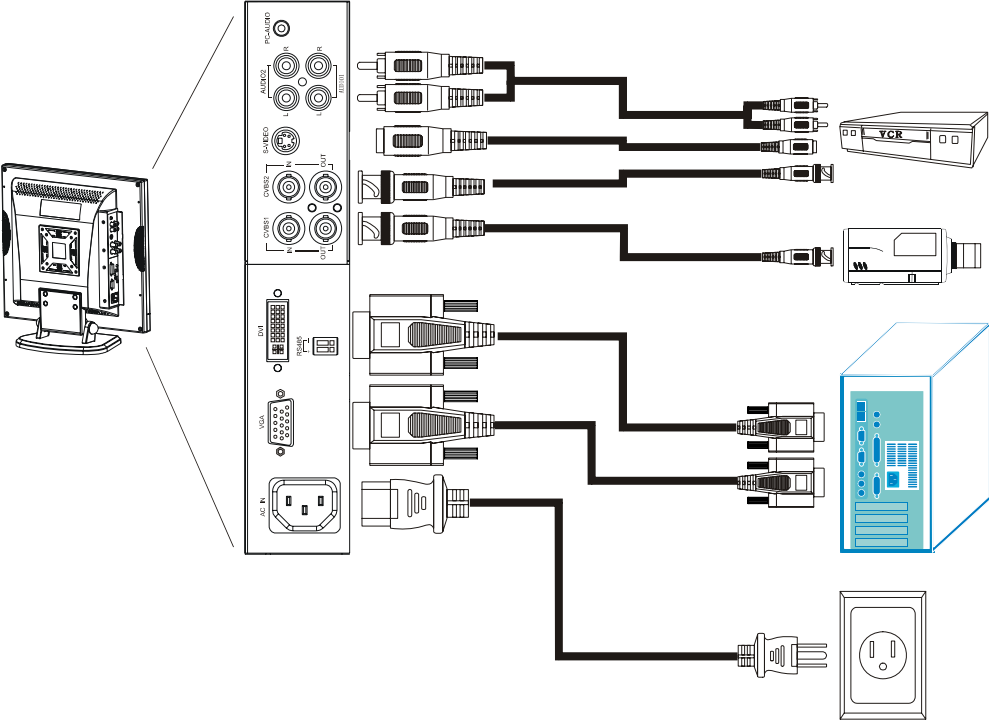
3   Fix the monitor in rack.

Use screws applicable to the rack system in use. Failure to observe this may result in serious injury.

If there is any doubt of the suitability of a mount or fixing method, a suitably qualified technician should be consulted.

Typical Connection Device

Specification

			17"	19"
Pixel Type			Normal white	Normal black
Max. Resolution			1280 x RGB x 1024	1280 x RGB x 1024
Aspect Ratio			4:3	4:3
Resolution / Scan for VGA / DVI			640 x 480 @ 60/72/75Hz	640 x 480 @ 60/72/75 Hz
			800 x 600 @ 56/60/72/75 Hz	800 x 600 @ 56/60/72/75 Hz
			1024 x 768 @ 60/70/75 Hz	1024 x 768 @ 60/70/75 Hz
			1280 x 1024 @ 60 / 75 Hz	1280 x 1024 @ 60 / 75 Hz
Viewing Area			337.920(H) x 270.336(V)	376.32(H) x 301.056(V)
Pixel Pitch			0.264 x 0.264 mm	0.294 x 0.294 mm
Brightness			450 cd/m2	450 cd/m2
Contrast Ratio			500:1	500:1
Backlight Type	**Type**		4CCFL	4CCFL
	Hours		50,000 hr(Typ)	50,000 hr(Typ)
Viewing Angle (H/V)			160/160	140/135
Display Color			16.2M colors	16.2M colors
Response Time			8ms(tr+tf)	8ms(tr+tf)
Sync. Format			NTSC / PAL / SECAM	
Frequency (Horizontal)			PC: 31.5K~80KHz Video 15750 / 15625Hz (NTSC/PAL)	
Frequency (Vertical)			PC: 56Hz~75Hz Video: 50 / 60Hz	
Input Interfaces	**Video Interface**		D-Sub 15 In x 1,　DVI In x 1, Video In x 2 (BNC), Video Out x 2 (BNC), S-Video In x 1	
		VGA	Yes, x 1	
		DVI	Yes, x 1	
		CVBS	Yes, x 2	
		S-Video	Yes, x 1	
	Audio Interface		Audio In x 2,　PC Phone In x 1	
	Input Power		AC Socket In x 1	
Input Signal			Composite signal 0.5~2Vpp / 75ohm (Auto Termination), Y Signal 1Vpp, C signal 0.3 Vpp	
Integrated Speakers			Yes (2W + 2W)	
Front Panel Controls			Power, Adjust Up/Down/Left/Right, Menu, Exit, Input	
Indicators			LED, Power on, Stand by, Sleep	
Special Features	**Remote Control**		No	
	Anti-Glare Glass		Optional	
	PIP & VOV		VOV + PIP	
	Comb Filter		3D (NTSC / PAL)	
	De-interlace		3D (NTSC / PAL)	
	Noise reduction		3D	
	TBS		Yes	
	CTI		Yes	
	AGC		Yes	
	3:2 2:2 pull-down		Yes	
	Non-linear scaling		No	
	Power Failure Auto Recover		Yes	
	Color Temperature		9300˚K / 6500˚K / User	
	Scan Mode		Over / Full / Under	
	Key Lock		Yes	
	Rack mount Type		Yes	
	Power Latching		Yes	
	Power on Option		CVBS1 / CVBS2 / S Video /　VGA / DVI Selectable	
	Auto signal searching		Yes	
	RS-485		Yes	
	PVM expand		No	
	CDS light sensor		No	
	ISP function		Yes	
	Expand interface		No	
	Language (reserved)		English, German, French, Spanish, Japanese, Chinese	
Rack Tilt Angle / Swivel			up 15° / down 15°	
VESA Mounting			VESA 75 / VESA 100	
Power Type			AC 100~240 VAC 50/60Hz	
Power Supply			Internal	
Temp (Oper.)			0˚C ~ 40˚C	
Max. Temp			50˚C	
Temp (Storage)			-10˚C ~ 60˚C	

Appendixes

Check the information in this section to see if the problems can be solved before requesting repair:

ⓘ **The consumers are only allowed to solve the problems described as below.**
Any unauthorized product modification, or failure to follow instructions supplied with the
product will void the warranty immediately.

Problem: No Power indication

- ◆ Make sure power cord is correctly.
- ◆ Make sure power voltage range is between 100~240Vac.
- ◆ Please contact the store where you purchased the unit or service center listed on your warranty card.

Problem: No image

- ◆ Make sure power button is ON.
- ◆ Check whether the LCD monitor and computer or video devices power cords are plugged in and that there is a supply of power.

Problem: No signal

- ◆ Check the signal connection between the computer and LCD monitor.
- ◆ Make sure the computer power is ON.
- ◆ Make sure the correct input is selected.

Problem: "Out of Range"

- ◆ Check the computer image output resolution and frequency and compare the value with preset value (please refer to page 10).

Problem: Fuzzy image

- ◆ Adjust "Input sync. manual" in VGA advance setup.

Problem: Image too bright or Image too dark

- ◆ Adjust brightness and contrast by OSD.

Problem: Irregular image

- ◆ Check the signal connection between the computer and LCD monitor.
- ◆ Perform "Input sync. auto".

Problem: Distorted image

- ◆ Reset LCD monitor. (perform the "Factory Reset" function by OSD)

Problem: Image is not centered Size is not appropriate

- ◆ Take off extra accessories. (such as looped out video signal)
- ◆ Use OSD image menu to adjust H-Position and V-Position.
- ◆ Check image size setting.
- ◆ Perform "Input sync. auto".

Appendixes

Problem: Uneven color or Color too dark or Dark area distorted

◆   Use OSD "Color" function to adjust color setting.

Problem: White color is not white

◆   Check "Color temperature" is correct.

◆   Use OSD "Color" function to adjust color setting.

◆   Use OSD "Hue" function to adjust color setting.

Problem: Can not adjust LCD monitor with buttons in the front.

◆   Check OSD "Key lock" function is ON.

Problem: Video can not see all pictures on screen

◆   Use OSD "Scan mode" function to adjust screen size.

Problem: Missing accessories

◆   Please contact the stores where you purchased the unit or service center listed as your warranty card.

Problem: The other problem

◆   Please contact the store where you purchased the unit or service center listed on your warranty card.

Memo