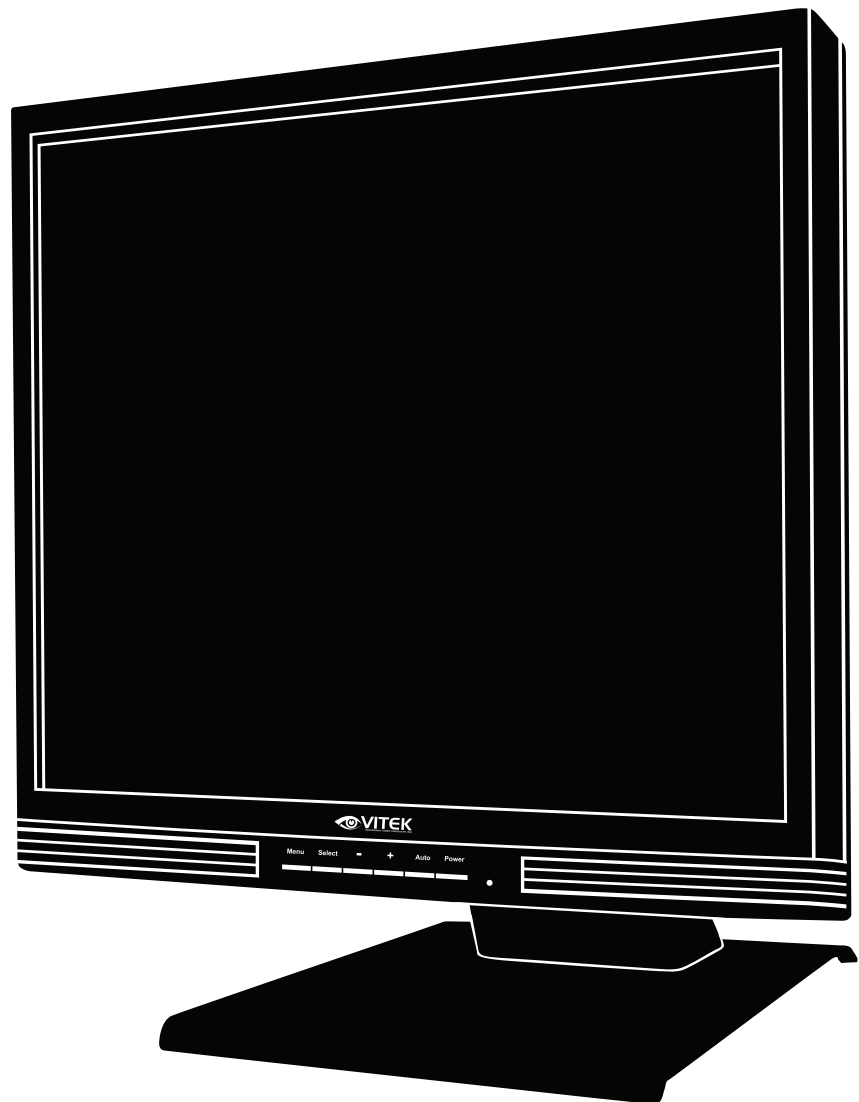# VITEK
INDUSTRIAL VIDEO PRODUCTS, INC.

VTM-LCD174P
VTM-LCD194P

17" & 19" Professional LCD Monitors

VITEK

• 17" or 19" LCD Display Panel

• VGA, Dual Looping BNC Composite, and HDMI Video Inputs

• Resolution up to 1280 X 1024

• Contrast Ratio of 800:1

• Front Panel Controls

• OSD Menu Programming

• VESA Standard Mounting 100

Introduction

Congratulations on your purchase. You can expect only the sharpest and most brilliant color images from this monitor. Featuring easy to use OSD controls and built in speakers, you will find this monitor both easy to use and a pleasure to look at.

Package Contents

- One LCD Monitor
- 12V DC Adapter/Power cord
- D-Sub 15-pin VGA connector Cable
- User's Guide

Hardware Installation

The following sections in this guide give clear, step-by-step descriptions of the installation process and explain how to use the monitor for optimum results.

Please pay attention to the Regulations and Warnings Section of this user's manual before setting up the display monitor.   Failure to do so may inadvertently result in personal injuries or machine damage.

4D-Comb Filter Series

Specifications

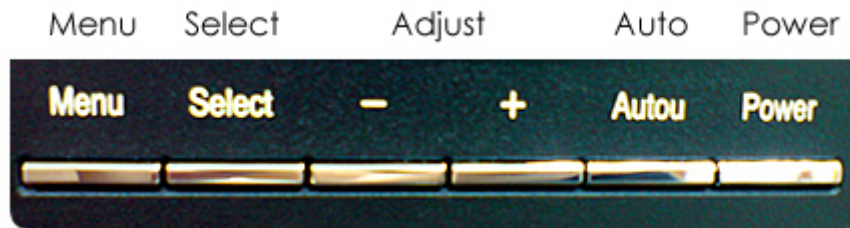|	VTM-LCD174P	VTM-LCD194P
Panel Type	17" TFT Color LCD	19" TFT Color LCD
Display Colors	16.2 Million Colors	
Pixel Pitch	0.264 mm	
Recommended Resolution	SXGA (1280 x 1024)	
Contrast Ratio	800:1	
Brightness	350 cd/m2	
Viewing Angle	H: 160 degrees V: 135 degrees	
Response Time	5ms	
Scanning Frequency	H: 31~65kHz V: 56~75Hz	
Video Inputs/Outputs	Dual Looping BNC Composite	
PC Inputs	15 pin D-Sub (Analog RGB) / HDMI	
Audio Inputs	Stereo RCA In / 3.5mm	
Screen Control	OSD (On Screen Display Menu)	
LCD Lamp	25,000 hours	
Weight	7.7 lbs. (3.5 Kg)	9.9 lbs. (4.5Kg)
Power Supply	AC 100~240V 50/60Hz	AC 100~240V 50/60Hz
Dimensions (w/o Stand)	14.57" x 16.54" x 1.26" (370 x 420 x 32mm)	16.54" x 16.93" x 1.42" (420 x 430 x 36mm)

Timing

Item	Resolution	H Freq.(kHz)	V Freq.(Hz)	Note
1	640x400@70	31.46		VGA
2	640x480@60	31.5	59.940	VESA
3	640x480@72	37.9	72.809	VESA
4	640x480@75	37.5	75.000	VESA
5	720x400@70	31.46		VESA
6	800x600@60	37.9	60.188	VESA
7	800x600@72	48.1	72.000	VESA
8	800x600@75	46.9	75.087	VESA
9	1024x768@60	48.4	60.004	VESA
10	1024x768@70	56.5	70.069	VESA
11	1024x768@75	60.0	75.029	VESA
12	1280x1024@60	64.0	60.000	VESA
13	1280x1024@75	80.0	75.025	VESA

The timings with presetting are recommended. Users have to adjust the timing manually, if it is not included in the presetting list.

Monitor and OSD Control

The LCD color monitor has a simple control layout for controlling the monitor and OSD (On Screen Display) functions.   The table below summarizes the control keys and their related functions.

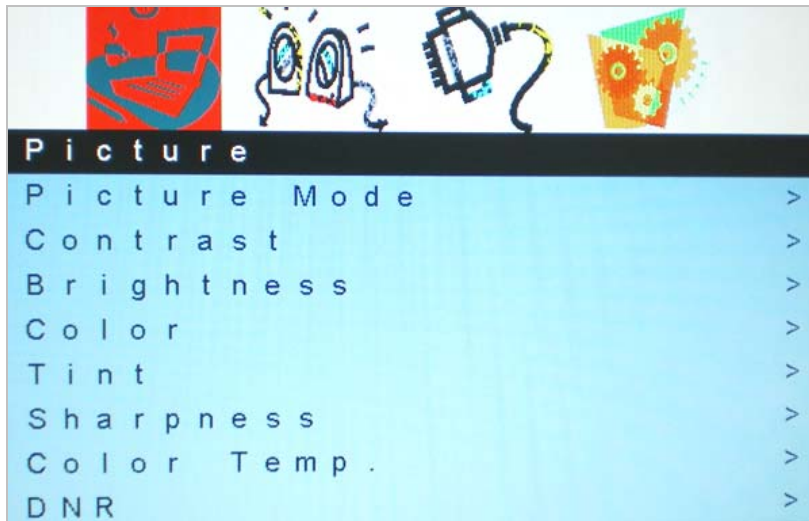| Keys	*Function Description*
Power	Pressing this key turns he display system power ON/OFF.
Auto	Automatically adjusts H-Position, V-Position, Pixel Clock and Phase for an optimal image in PC mode only.
+	Switch setting item. Increase the value of the chose item.
-	Switch setting item. Decrease the value of the chose item.
Select	Select Menu item, confirms value.
Menu	Enter the main menu of the on-screen display (OSD).

LED Status Display

The following table describes the various power states of the LCD monitor as represented by different LED color.

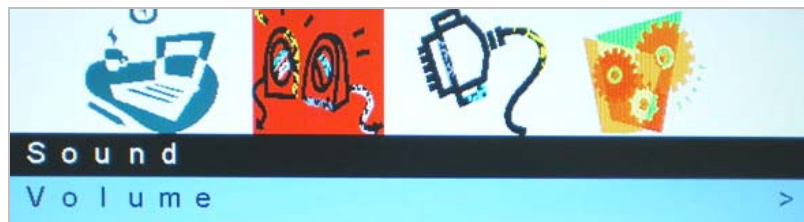| Power State	LED Color
On	Green
Standby	Red
No power	Blank

OSD Control Function List
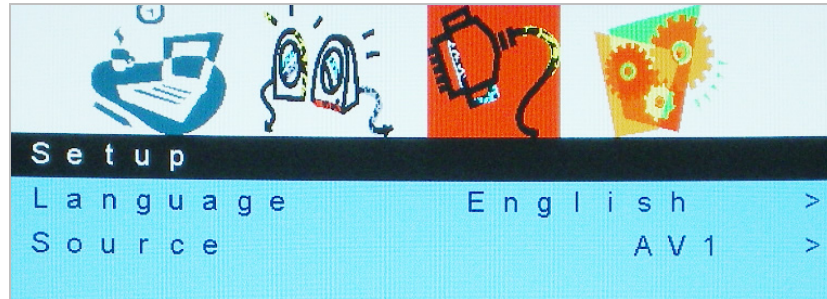

Picture Mode

1. Picture Mode	Press "-" OR "+" to select the picture mode " Memory , Standard , Mid , Dynamic"
2. Contrast	This is used to adjust the image contrast. Press "-" OR "+" to adjust the parameter.
3. Brightness	This is used to set the brightness of the screen. Press "-" OR "+" to adjust the parameter.
4. Color	Set favorite color of red , green, and blue. Press "-" OR "+" to adjust the parameter.
5. Tint	The screen deflection red of green. Press "-" OR "+" to adjust the parameter.
6. Sharpness	Adjust the sharpness. It makes the image become soft. Press "-" OR "+" to adjust the parameter.
7. Color Temp.	Press "-" OR "+" to adjust the color tones. " Cool , Warm , Normal "
8. DNR	Press "-" OR "+" to adjust the noise reduction. "High , Medium , Low , Off "

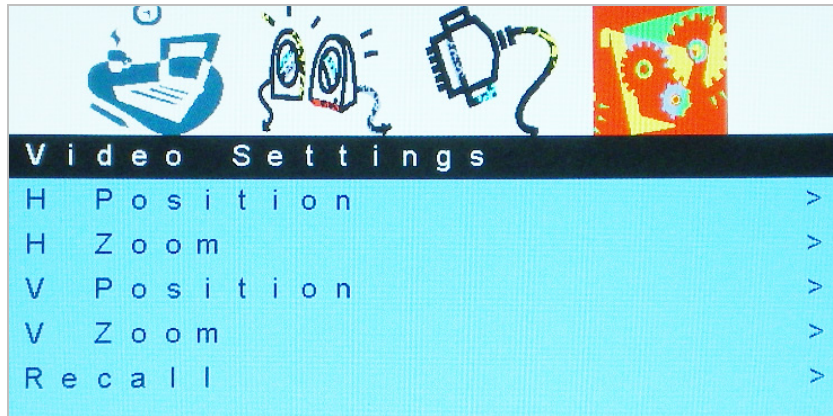NOTE: No. 5 ~ No.8 only in video mode.

Sound Mode

1. Sound Mode	Press "Select" to select " Volume " mode.
2. Volume	Press "-" OR "+" to adjust volume level.

Setup Mode

1. Setup Mode	Press "Select" to select "Language, Source" mode.
2. Language	Press "-" OR "+" to select language.
3. Source	Press "-" OR "+" to select "PC, AV1, AV2, HDMI" Signal Source.

Video Settings

1. Video Setting	Press "-" OR "+" to select "H. Position, H. Zoom, V. Position, V. Zoom, Recall" mode.
2. H. Position	Moves the display picture left or right. Press " - " OR " + " to adjust the parameter.
3. H. Zoom	Adjust the H-size of the display picture Press " - " OR " + " to adjust the parameter.
4. V. Position	Moves the display picture up or down. Press " - " OR " + " to adjust the parameter.
5. V. Zoom	Adjust the V-size of the display picture Press " - " OR " + " to adjust the parameter.
6. Recall	Recall Default value.

Caring for your LCD Monitor

The LCD color monitor is a sensitive piece of electronic equipment.   Proper care can prevent accidentally damaging the LCD panel or the monitor itself. By following these guidelines you can ensure many years of trouble free use.

1. The LCD monitor's plastic casing and LCD glass panel can be cleaned with a soft, lint-free cloth.   *Never use scrub pads or other cleaning materials with abrasive surfaces to clean your LCD monitor!*
   a. A slightly damp cloth or newspaper may be used to clean the glass plate of fingerprints or smudges.
   b. For the plastic case, a mild detergent may be used to clean the surface.   However, you should ensure not to use too much detergent or water as this could leak into the interior of the casing.
2. Do NOT use cleaning fluids based on alcohol, methanol spirit, or ammonia.   The glass plate has a hard surface coating to prevent scratches.   However, the use of strong chemical cleaning agents may damage this coating.   Use only a mild soap or detergent and water or specially formulated cleaners made for cleaning glass panels.
3. Avoid direct contact with water or other liquids.   Never use the LCD monitor in or around areas where water may pose a potential hazard to normal operation.
4. Only use the LCD monitor indoors, and avoid monitor contact with oil, vapor, steam, moisture and dust.   The LCD monitor should be used in a clean and low humidity environment.
5. Keep the LCD monitor away from heaters or other heat sources such as lighting equipment or direct sunlight.
6. Keep the LCD monitor away from sharp object to touch the screen like fingernail and pencil.

WARNING: Any unauthorized modification to this equipment could result in the revocation of the authorization to operate the equipment and void the product warranty.

F.A.Q.

Power button does not respond

- Check the power cord to ensure that it is securely plugged into the monitor base and also into the electrical outlet.
- Ensure there is electrical power coming from the AC outlet.   Use another device to check for power.
- Unplug the power cord of the monitor from the AC outlet; wait a few minutes, then to plug the power cord into the AC outlet again. This will reset the monitor and power supply.

No image on the screen

- Ensure that the DB-15 signal cable is properly connected to the display card/computer.
- Check the DB-15 signal cable connector on both ends for bent or pushed-in pins.
- The display card should be properly seated in its card slot.
- Ensure that the computer's power switch is ON.
- Ensure that the monitor's power switch is ON.
- Unplug the power cord of the monitor from the AC outlet; wait a few minutes, then to plug the power cord into the AC outlet again. This will reset the monitor and power supply.

Power LED is RED (with no image on the screen)

- Check the DB-15 signal cable to ensure that it is properly attached to the graphics display card.
- Check the DB-15 signal cable on both ends for bent or pushed-in pins.
- Make sure the computer is not in a power-saving mode (move the mouse or press a key on the keyboard).

No sound coming from the audio speakers

- The audio cable should be connected to the lineout on the audio card and the line-in on the monitor.   Ensure that the audio cable is properly connected.
- Inspect the audio cable for any apparent damage.   Double check by switching to another audio cable to see if the audio works.

Regulations and Maintenance

FCC compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful

interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: 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 generation, 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 to 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.

Precautions

* Read all of these instructions and save them for later use.

* Follow all warnings and instructions on the product.

* Product
  - Do not cover or block the vent holes in the case.
  - Do not insert sharp objects or spill liquid into the LCD monitor through cabinet slots. They may cause accident fire, electric shock or failure.
  - Disconnect the power plug from the AC outlet if you will not use it for an indefinite period of time.
  - Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage potentials or other risks.
  - Do not touch the screen directly with your fingers. You may damage the screen, and oil from your skin is difficult to move.
  - Do not apply pressure to the screen. The LCD is very delicate.

* Power
  - Use the type of power indicated on the marking label.

* Plugs
  - Do not remove any of the prongs of the monitor's three-pronged power plug.
  - Disconnect the power plug from the AC outlet under following conditions:

    ◎   If you will not use it for an indefinite period time.

    ◎   When the power cord or plug is damaged or frayed.

    ◎   If the product does not operate normally when the operation instructions are followed. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.

◎ If the product has been dropped or the cabinet has been damaged.

◎ If the product exhibits a distinct change in performance, indicate a need for service.

* Power and extension cords
  - Do not allow anything to rest on the power cord.
  - Do not locate this product where persons will walk on her cord.
  - Use the proper power cord with correct attachment plug type. If the power source is 120 V AC, use a power cord that has UL and C-UL approvals. If the power source is a 240 V AC supply, use the tandem (T blade) type attachment plug with ground conductor power cord that meets the respective European country's safety regulations, such as VDE for Germany.
  - Do not overload wall outlets or power cords. Ensure that the total of all units plugged into the wall outlet does not exceed 10 amperes.
  - Ensure that the total ampere rating of all units plugged into the extension cord is not over the cord's rating.
  - If the power supply cord, which came with your monitor, is to be connected to the PC instead of the wall outlet, this equipment is to be used with UL/TUV approved computers with receptacle rated 100~240V AC, 50/60Hz, 2.0A(minimum).

* Environment
  - Place the monitor on a flat and leveled surface.
  - Place the monitor in a well-ventilated place.
  - Keep the monitor away from: Extremely hot, cold or humid places, places directly under sunlight, dusty surroundings, & equipment that generates strong magnetic fields.

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