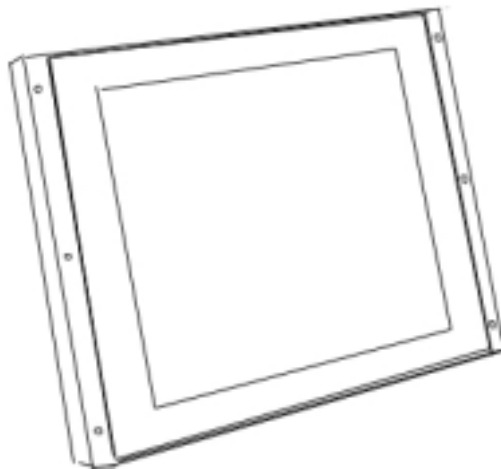


# Panel Mount Industrial LCD Display Kit (User Manual)

Model No. MTK-1xxx



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## Features:

1. Plug and Play
2. Support DDC1 & DDC2B
3. On Screen Display (OSD) Contrast, Brightness, Screen Size etc.

## Precautions:

1. Always handle your MTK-1xxx with care when moving it, and avoiding the impact and shock.
2. Don't apply pressure to the screen.
3. Don't touch the screen directly with the fingers.
4. The display area is highly prone to scratching.
5. Don't let water or oil penetrate the monitor and wipe off water drop immediately. Long contact with water may cause discoloration or spots.
6. Please keep the food particles and fingerprints away from the display area.
7. Be sure to turn off power supply.
8. Avoid exposing the MTK-1xxx to direct sunlight or other heat source. The MTK-1xxx should be facing away from direct sunlight to reduce the glare.
9. Choose a well-ventilated area to position your MTK-1xxx to allow adequate dissipation of heat. Don't place anything on top of the MTK-1xxx.
10. Ensure the area around the MTK-1xxx is clean and moisture-free.
11. Never remove the rear cover. The display unit contains high-voltage parts. You may suffer electric shock if you touch these parts.
12. If the panel surface is soiled, wipe it with absorbent cotton or other soft cloth.

## Storage:

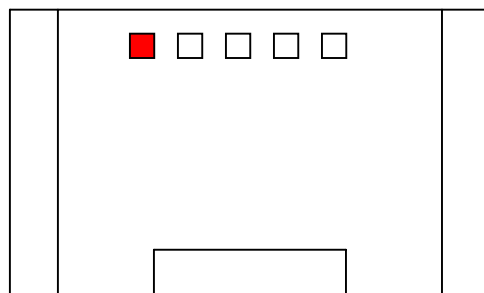
1. Don't store the monitor in temperature higher than 60°C or lower than -20°C.
2. Store in dark places away from sunlight and ultra violet (UV) radiation.

## Cleaning:

1. Before cleaning the monitor, make sure the monitor is under the "Off" condition.
2. Please un-plug the monitor first, and don't apply the cleaning liquid to the monitor directly.
3. Keep a certain distance from the monitor, and apply the cleaners to the cloths and then use the cloths to clean the monitor gently.
4. Don't use ketene type material (ex. Acetone), Ethyl alcohol, toluene, Ethyl acid or Methyl chloride to clear the panel.
5. The desirable cleaners are water, IPA (Iso Propyl Alcohol) or Hexane.

# BACK CONTROL PANEL

The monitor's OSD control functions are located on the top middle of the back.

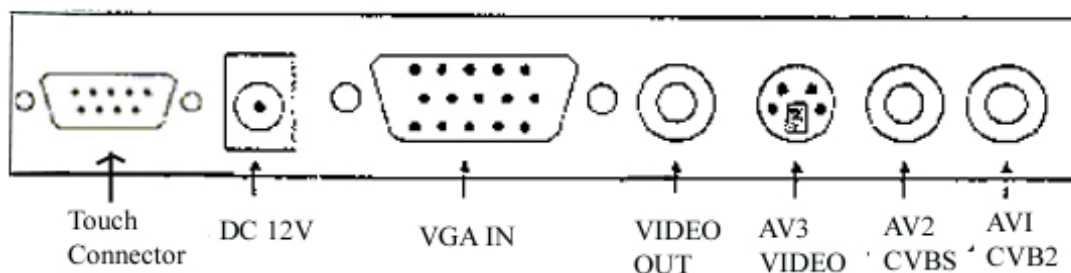


(back view of kit)

From right to left:

- Select :To select the input source (VGA, AV1, AV2, AV3)
- Menu :To select the Basic Setting, Position, Screen Setting, Auto Adjust, Menu Setting, Recall, All Reset and Exit
- Down :To decrease the value of the Select function
- Up :To increase the value of the Select function
- On/Off :Power switch to turn ON or OFF the monitor.

# BOTTOM INPUT/OUTPUT PORT



# Installation:

## 1. Product Package

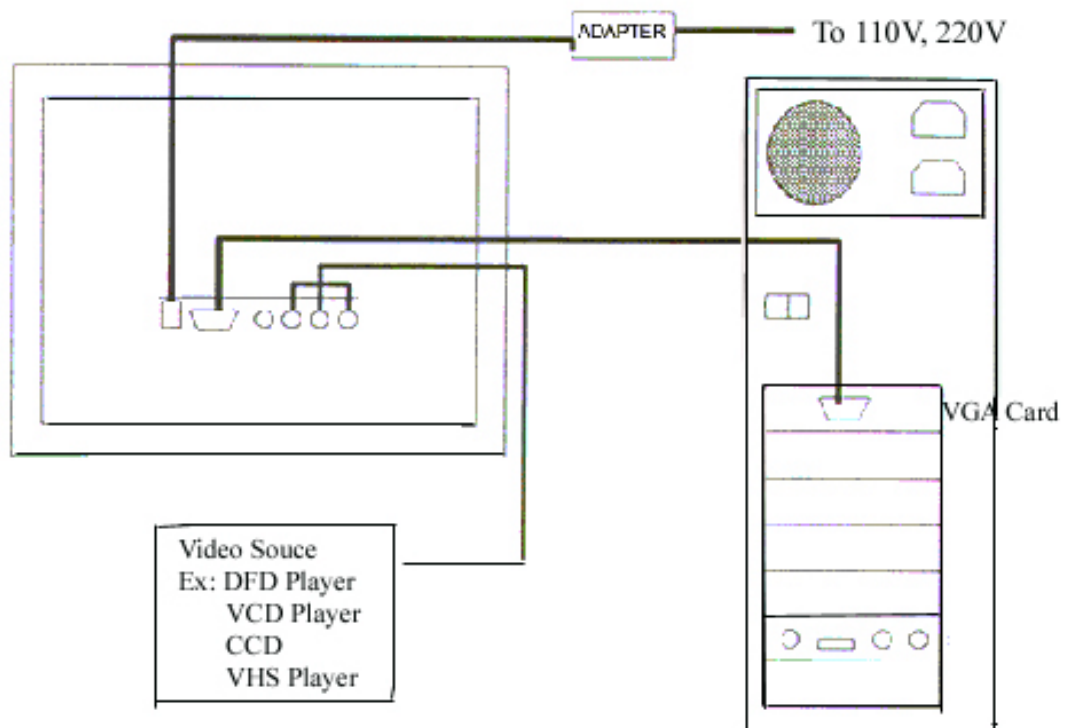
Please check the contents first after opening the carton. The package should include the following items;

- Analog Color TFT LCD Monitor
- Accessory box:
  1. RGB cable
  2. AC Adapter & Cord
  3. Video cable
- Operating manual

## 2. Installation:

2.1 Make sure the monitor and the system unit power switches are OFF.

2.2 Plug one end of the 15pin signal cable to the monitor and the other end to the video signal connector at the rear of the system. Tighten the two screws on the cable connector on both ends. Please reference to the followings to finish the installation:



If the installation is complete, turn the computer (or video machine) ON.  
Adjust the OSD control to suit your personal preference.

# ON SCREEN DISPLAY FOR VGA (OSD)

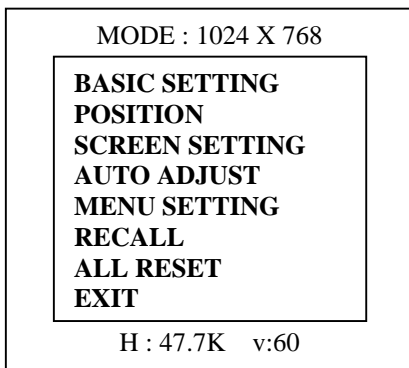


Fig 1

## 1.1 Fig 1:

**BASIC SETTING:** (See section 1.2)

**POSITION:** (See section 1.3)

**SCREEN SETTING:** (See section 1.4)

**AUTO ADJUST:** (See section 1.5)

**MENU SETTING:** (See section 1.6)

**RECALL:** When you run the function, the monitor will be setting to last status of the saving value.

**ALL RESET:** To setting default value to the monitor.

**EXIT:** To close the OSD & saving all value.

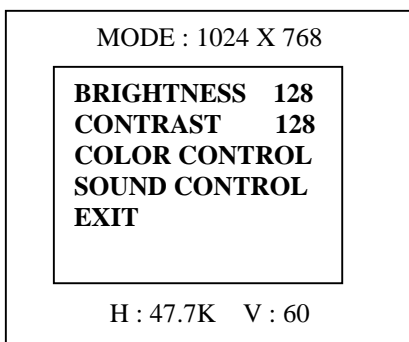


Fig 2

## 1.2 Fig 2:

**BRIGHTNESS :** To adjust the black color level of the image.

**CONTRAST :** To adjust the white color level of the image.

**COLOR CONTROL :** (See section 1.7)

**SOUND CONTROL :** (See section 1.8)

**EXIT :** Return to last menu.

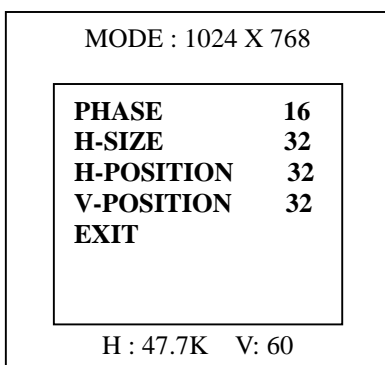


Fig 3

## 1.3 Fig 3:

**PHASE :** To adjust the noise of the image.

**H-SIZE :** To adjust the horizontal size of the image.

**H-POSITION :** To adjust the horizontal position of the image.

**V-POSITION :** To adjust the vertical position of the image.

**EXIT :** Return last menu.

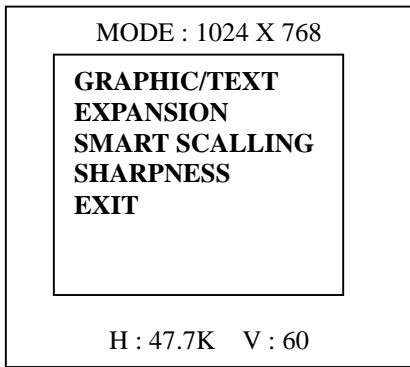


Fig 4

**SHARPNESS** : To adjust the image from weak to sharp.

**EXIT** : Return last menu.

#### 1.4 Fig 4:

**GRAPHIC/TEXT** : To exchange the 640x640 (60Hz)/720x350 (60Hz)

**Expansion** : To expansion the image to full screen or to abbreviate the image to normal (1:1)

**SMART SCALLING** : To adjust the image to interpolation.

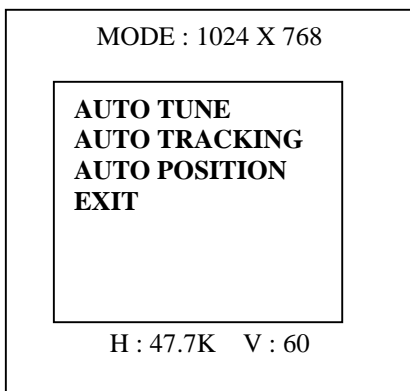


Fig 5

#### 1.5 Fig 5:

**AUTO TUNE** : To auto turn the tracking, position & gain of the image.

**AUTO TRACKING** : To auto tune the H-size & phase of the image.

**AUTO POSIITON** : To auto tune the horizontal & vertical position of the image.

**EXIT** : Return last menu.

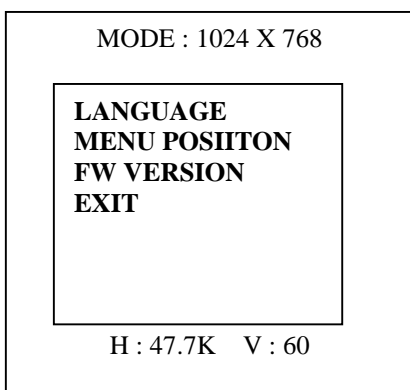


Fig 6

#### 1.6 Fig 6:

**LANGUAGE** : To select the English or Japanese of the OSD.

**MENU POSIITON** : To adjust the horizontal & vertical position of the OSD.

**FW VERSION** : To show the version of the system BIOS.

**EXIT** : Return last menu.

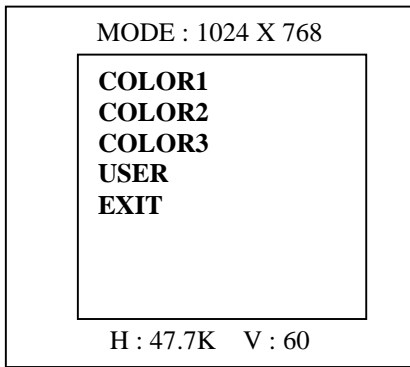


Fig 7

image by oneself define.

**EXIT** : Return last menu.

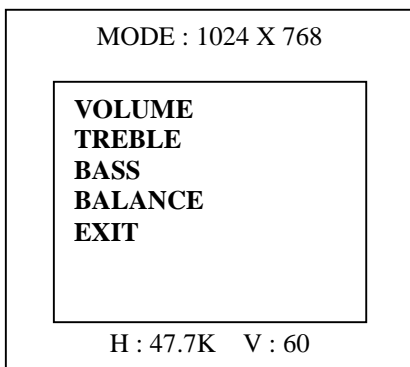


Fig 8

**EXIT** : Return last menu.

### 1.7 Fig 7:

**COLOR1** : To setting the color temperature of the image to 9600K.

**COLOR2** : To setting the color temperature of the image to 6500K.

**COLOR3** : To setting the color temperature of the image to 5400K.

**USER** : To setting the RGB color of the

### 1.8 Fig 8:

**VOLUME** : To adjust the volume of the sound.

**TREBLE** : To adjust the treble of the sound.

**BASS** : To adjust the bass of the sound.

**BALANCE** : To adjust the left & right channel of the sound.

# ON SCREEN DISPLAY FOR VIDEO (OSD)

BRIGHTNESS 128



BRIGHTNESS : To adjust the black color level of the image.

CONTRAST 128



CONTRAST : To adjust the white color level of the image.

SATURATION 64



SATURATION : To adjust the color saturation of the image.

HUE 0



HUE : To adjust the color hue of the image.

VOLUME 16



VOLUME : To adjust the volume of the sound.

TREBLE 8



TREBLE : To adjust the treble of the sound.

BASS 8



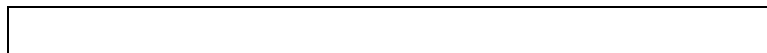
BASS : To adjust the bass of the sound.

BALANCE 8



BALANCE : To adjust the left & right channel of the volume.

RESET



RESET : To setting default value to the monitor.



# REFERENCE

## SIGNAL CONNECTOR PONOOTS

### POWER CONNECTOR

Pin 1	Ground
Pin 2	+ 12V output

### RGB SIGNAL CONNECTOR

Pin 1	Analog Red Input
Pin 2	Analog Green Input
Pin 3	Analog Blue Input
Pin 4	Ground
Pin 5	Digital Ground
Pin 6	Analog Red Ground
Pin 7	Analog Green Ground
Pin 8	Analog Blue Ground
Pin 9	NC
Pin 10	Sync Ground
Pin 11	Ground
Pin 12	SDA (DDC Data)
Pin 13	H. Sync
Pin 14	V. Sync
Pin 15	SCL (DDC CLK)

## VGA SUPPORT MODE

Resolution	Horiz.	Vert. Freq. (Hz)	Polarity
640 x 350	31.46	70	+/-
	37.86	85	+/+
720 x 350	31.46	70	+/-
	37.86	85	+/-
640 x 400	31.46	70	-/+
	37.93	85	-/+
	24.82	56	-/+
720 x 400	31.46	70	-/+
	37.86	85	-/+
640 x 480	31.46	59.9	-/-
	35.00	66.6	+/-
	37.86	72.8	-/-
	37.50	75.0	-/-
	43.27	85.0	-/-
800 x 600	35.15	56.2	+/+
	37.87	60.3	+/+
	48.07	72.2	+/+
	46.87	75.0	+/+
	44.4	70.0	+/+
	53.67	85.0	+/+
832 x 624	49.72	74.5	-/-
1024 x 768	78.36	60.0	-/-
	56.47	70.1	-/-
	58.08	72.9	
	60.02	75.0	+/+
	68.68	84.9	+/+
1152 x 864	54.90	60.0	
	64.19	70.2	+/+
	67.50	75.0	-/-
	76.30	80.0	
	77.09	84.9	
1280 x 1024	64.60	59.9	+/+
	63.98	60.0	-/-
	74.40	59.3	
	78.72	74.0	