

TFT ANALOG
LCD MONITOR SPECIFICATIONS

MT35191B1-0H



維亞

Ver.070906

Contents

PRODUCT.....	2
Contents.....	2
Features.....	2
Power saver.....	2
Plug & play.....	2
SAFETY.....	3
Electrical.....	3
Common.....	3
SET UP YOUR LCD MONITOR.....	4
Installation.....	4
Screen Adjustments.....	4
OSD Control.....	5
TROUBLE SHOOTING.....	8
MAINTENANCE.....	9
SPECIFICATIONS.....	10
SUPPORT PC TIMING.....	11
OUTER DIMENSION.....	12
PACKING.....	13

PRODUCT

Note : Save the original box and packing material for future shipping needs.

Contents

- ◆ The Accessories in this LCD Monitor Model.

Accessory Box:

1. VGA cable X 1
2. Power Cord X 1
3. User's manual X 1
4. AC to DC adapter X 1
5. CGA 10pin Cable(Optional)

Features

- ◆ High Brightness.
- ◆ Fast response time.
- ◆ Power Saver.
- ◆ Low electromagnetic wave and power saver.
- ◆ Safety certifications.

Power saver

- ◆ Power control system, also called (Power Saver), is installed inside the LCD Monitor.
- ◆ If the monitor has not been used for a certain period of time, the system will turn the monitor to low voltage mode to save power. Slight moving or any click will return to the original image.
- ◆ The VGA card inside the computer handles Power Saver. You can use computer software to set the function.
- ◆ The LCD Monitor is compatible with EPA ENERGY STAR and N TEK if used with a VESA DPMS computer.
- ◆ To save power, turn off the power of the LCD monitor when not in use.

Plug & play

- ◆ The new VESA Plug and Play function is used which eliminates the complicated and time-consuming installation process.
- ◆ You can use the Plug and Play system without encountering usual installation problems. Your computer system can easily identify and automatically adjust the monitor.
- ◆ The LCD Monitor uses Display Data Channel (DDC) to send Extended Display Identification Data (EDID) to the computer system, so the computer system can be set to monitor auto adjust.

SAFETY

Note: Please note the following safety precaution before using this monitor.

Electrical	
Sure the Voltage	<ul style="list-style-type: none"> ◆ Before connecting the AC power cord to the DC adapter socket, make sure that voltage of the DC adapter is suitable for local power.
Electrical Shock	<ul style="list-style-type: none"> ◆ Do not insert any metal object into opening on the LCD monitor casing to prevent electrical shock. ◆ To prevent electrical shock, do not touch the interior of the LCD monitor. Only a qualified technician should open the casing of monitor. ◆ If the power cord is damaged, do not use the LCD monitor. Do not place any object on the power cord, and place the power cord away from crowded areas. ◆ While pulling the LCD monitor plug away from the socket on the wall, hold the plug not the power cord. ◆ Do not expose the LCD monitor in the rain or somewhere closed to the water (such as in the kitchen, near the pool). ◆ If the LCD monitor is dampened, please unplug the power cord and contact Service Center.
Unusual condition	<ul style="list-style-type: none"> ◆ If the LCD monitors functions improperly, especially when making unusual noise or spreading strange odor, unplug it immediately and contact service center.
Common	
Monitor and Screen Care	<ul style="list-style-type: none"> ◆ Avoid touching the screen with your fingers or any tough objects. Oil from the skin is difficult to remove, and touching objects to the screen may damage the panel. It is suggested to clean the monitor by first turning it off and using a soft, dry cloth. ◆ The LCD monitor should be placed in areas with low humidity and less dust. Please watch out for environmental conditions on humidity and ventilation. ◆ The LCD monitor should be kept away from heat sources and irradiation. For example: kitchen, oven or direct sunlight and etc. ◆ To reduce glare, avoid placing the monitor in a place that receives direct sunlight. ◆ Avoid letting small children play with monitor. The frequent touching of the panel will cause panel to look dirty and will affect the quality of the brightness if too dirty. ◆ If moving the monitor, please handle with care when unplugging and moving it. ◆ Do not place items over the monitor when placing and adjusting the LCD monitor. ◆ If the LCD monitor is not in use for a long time, please unplug it and restore it into the proper package, the original carton & packaging stuffs are preferred. ◆ The opening on the LCD Monitor casing is for the purpose of ventilation. To prevent overheating, the openings should not be blocked or covered. Do not place the LCD monitor on a bed, sofa, blanket or other soft surfaces; or else the soft objects will block the openings of the LCD monitors. ◆ If you place the LCD Monitor on a bookshelf or other airtight spaces, it's essential to leave a space of 4"(10cm) distance between the Monitor and the hard surface.
Clean screen	<ul style="list-style-type: none"> ◆ Ensure the area around the LCD monitor is clean and free of moisture. Please refer to [Maintenance] chapter for normal maintenance practice.

SET UP YOUR LCD MONITOR

Installation

Notes

Note: Please read last section " Safety" before you install the LCD Monitor. Please note the instruction below prior to installing your LCD monitor.

Installation Position

- ◆ Choose a position where the reflection of light is minimal and away from a window for maximizing the quality of the screen image.
- ◆ It is important to keep 30 cm between the LCD monitor to minimize eyestrain.

Workstation Height

- ◆ Position the LCD monitor slightly above your horizontal vision as you are sitting.

Angle of Vision Quick Installation

- ◆ Tilt either forward or backward for the most comfortable viewing angle. This LCD monitor supports connection to a computer or workstation. The steps are described as Quick Setup.
- ◆ After installation, please refer to "Auto Adjust" for automatic adjust procedures.

Screen Adjustments

Auto Adjust

Though your computer system can identify the new LCD monitor system, the Auto Adjust function can be as to enhance the display. To enter adjust mode, please refer to "OSD Control".

- ◆ Turn the computer and LCD monitor on.
- ◆ Press 'Auto' button to start Auto Adjust.
- ◆ The LCD monitor will start the Auto Adjust process automatically for 10 consecutive seconds, where you will notice the image change as the Auto Adjust is working.
- ◆ Your LCD monitor provides a STFC function, through which you can check whether the LCD monitor functions are working properly.

Self Test Function Check (STFC):

- ◆ If your LCD monitor is properly connected, but there is no image showing and the indicator light keeps orange, please follow the steps below to start STFC.

Shutdown computer and LCD monitor.
Unplug the signal connector from the back of computer.
Turn the LCD monitor on.

If the image connector is disconnected or damaged, the image shown on following figure will also appear during normal operation.



Turn off the LCD monitor and reconnect signal cable, and then turn the computer and LCD monitor on.

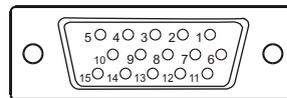
- ◆ If the LED of the LCD monitor is an orange color after completing the steps above, please check your VGA card and computer system. Your monitor should be operating properly.

OSD Control

Thanks to the user-friendly design of OSD (On Screen Display), you can adjust your monitor by the keypads in the front of the monitor.

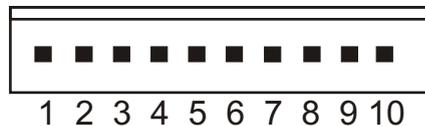


1	Power Switch	Power On/Off
2	LED	Power Indicator
		Green:Normal
		Red:Power Saving
		Off:Power Off
3	Menu	Show OSD
4	+	Adjustment when OSD is shown
5	-	Adjustment when OSD is shown
6	Auto/Esc	Automatically optimize positions,phase&clock when OSD is shown,Exit OSD when OSD is shown



VGA 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	Ground
Pin 10	Sync Ground
Pin 11	Ground
Pin 12	SDA (DDC Data)
Pin 13	H. Sync or H+V Sync.
Pin 14	V. Sync
Pin 15	SCL (DDC CLK)



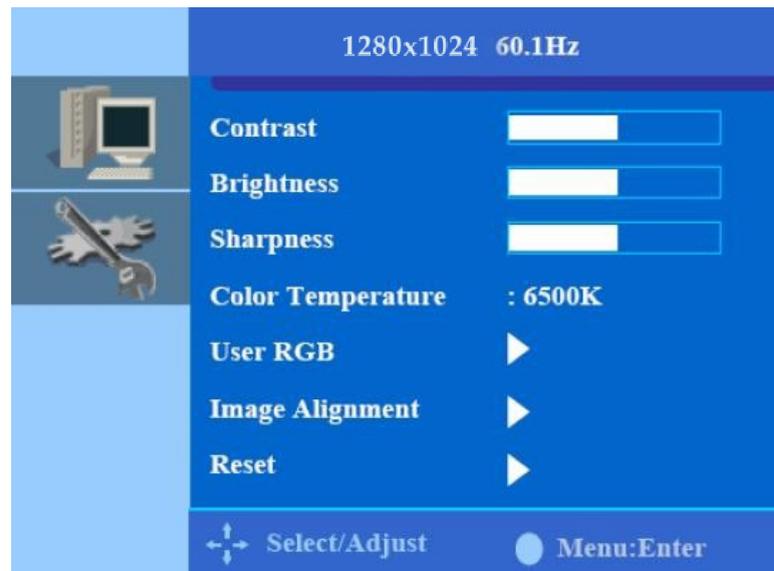
CGA Signal Connector (Optional)

Pin1	CGA Analog Red Input
Pin2	CGA Analog Green Input
Pin3	CGA Analog Blue Input
Pin4	Ground
Pin5	V Sync
Pin6	H+V,H Sync
Pin7	No Connection
Pin8	Ground
Pin9	V Sync
Pin10	H+V,H Sync

Operate Explanation

Your LCD has been adjusted to its optimal status before shipment. You can also adjust the image in accordance with the following illustrations and steps.

- ◆ Press the "Menu" button to start the OSD feature.
- ◆ Click the "+" or "-" button to select the function to be adjusted.
- ◆ Click the "Menu" button to access into the function to be adjusted.
- ◆ Click the "+" or "-" button to change the current setting of the function.
- ◆ To exit the OSD menu or go back to the previous action by clicking the "ESC" button. It will save the change automatically.
- ◆ To repeat above steps for changing the setting of other functions.



Notes

- ◆ The OSD disappears several seconds after you stop pressing the buttons while performing an adjustment.
- ◆ Any changes are automatically saved in the memory when the OSD disappears. Turning off the power should be avoided while using the menu.
- ◆ Adjustments for clock, phase and positions are saved for each signal timing. Except for these adjustments, all other adjustments have only one setting which applies to all signal timings.
- ◆ The color will change from white to pink while the function is selected.

Adjustment of
Screen

Function Definition

Mode	Description	
Image Setting	Contrast	Adjust the contrast of the image.
	Brightness	Adjust the brightness of the screen.
	Sharpness	Adjust the picture sharpness.
	Color temperature	User/6500/7500/9300.
	User RGB	Adjust red/green/blue gain.
	Image Alighthent	Adjust picture position.(V-size,H-size,..)
	Reset	Restore to factory settings.
Feaure Controls	Auto Color	Auto adjust the screen color.
	Screen Test	Screen Test.
	Language	Adjust the language.
	Input Source	Adjust the input source.
	OSD Timer	Adjust the OSD timer.

TROUBLE SHOOTING

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

Note : 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 end the warranty immediately.

No image	<ul style="list-style-type: none">◆ Make sure power button is ON.◆ Check whether the LCD monitor and computer power cords are plugged and whether there is a supply of power.
No Signal Input	<ul style="list-style-type: none">◆ Check the signal connection between the computer and LCD monitor.
"Out Of Range"	<ul style="list-style-type: none">◆ Check the computer image output resolution and frequency and compare the value with the preset values (Please refer to [Appendix-Display Mode]).
Fuzzy image	<ul style="list-style-type: none">◆ Adjust Phase.
Image too bright Image too dark	<ul style="list-style-type: none">◆ Adjust brightness and contrast by OSD.
Irregular image	<ul style="list-style-type: none">◆ Check the signal connection between the computer and LCD monitor.◆ Perform Auto Adjust.
Distorted image	<ul style="list-style-type: none">◆ Reset the LCD monitor. (perform the "Recall" function by OSD)◆ Take off extra accessories (such as signal extension cord).
Image is not centered Size is not appropriate	<ul style="list-style-type: none">◆ Use OSD Image Menu to adjust H. Position and V. Position.◆ Check image size setting.◆ Perform Auto Adjust.
Uneven color Color too dark Dark area distorted White color is not white	<ul style="list-style-type: none">◆ Use OSD Color Menu to adjust color setting.
Can't adjust LCD monitor with the buttons in the front. The other problem	<ul style="list-style-type: none">◆ Please contact the stores where you purchased the unit or service center listed at your warranty card.

MAINTENANCE

This product is under strict quality control in the production process. Maintaining the LCD monitor, refer to the description as below, and is important for maximizing the display performance and product life.

Warning: To prevent electrical shock, do not open the LCD monitor casing. Users shall not repair the LCD monitor on their own. Users' maintenance is limited to cleaning of the parts below.

Unplug the power	◆ Unplug the LCD monitor from an AC socket before conducting maintenance.
Check the cover	◆ Check to see if the LCD Monitor and accessories are damaged, broken, or strained.
Clean	◆ Never spray or pour any liquid directly onto the screen or case.
	◆ Avoid water or and liquid permeating into the LCD monitor or accessories.
Cleaner	Pure water or non-ammonia, non-alcohol based glass cleaner. Do not use ketene (such as acetone), ethanol, toluene, acetic acid, methane, chloride, or abrasive detergent to clean the monitor because those chemicals can damage the LCD monitor.
Screen	To clean your LCD monitor screen, use water or mild cleaner, as above, to gently moist a soft, clean cloth. If possible, use a special screen cleaner sheet or a solution suitable for static electricity application.
Case	To clean your LCD monitor case, use water or mild cleaner, as above, to gently moist a soft, clean cloth.
Accessory	To clean your accessories, use water or mild cleaner, as above, to gently moist a soft, clean cloth.
Conserve	◆ If the LCD monitor is not in use for a long time, please unplug and save in original box in order to avoid any unexpected damage.
Disclaimer	◆ Any damage resulting from use of any cleaner that is not mentioned above is not covered under this warranty term.

SPECIFICATIONS

* FEATURES:

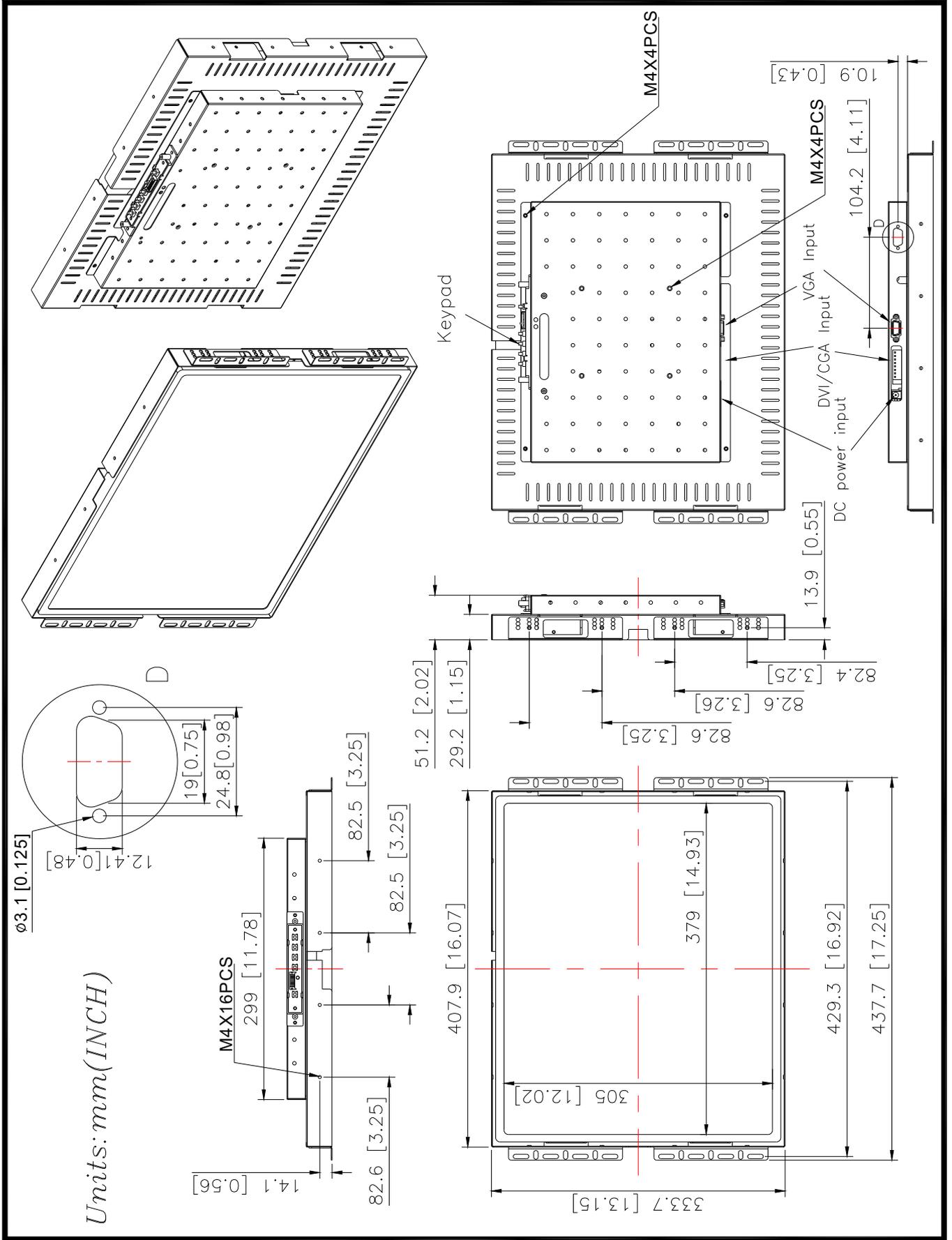
- * High Brightness.
- * External OSD key board.
- * Fast response time.
- * Low electromagnetic wave and power saver.
- * RoHS compliance.

Model		MT35191B1-0H
Model Selection Guide		MT35xxx BX (B0 = PC only, B1 = CGA-EGA-PC)
Touch System	3M Touch	CMT35191B
	ELO-Touch	OMT35191B
LCD Panel	Screen Size	19.0
	Pixel Pitch(mm)	0.294*0.294
	Backlight	CCFL*4
	Cell Type	TN
	Response	5ms
	Aspect Ratio	5:4
Viewing Angle	Horizontal	170°
	Vertical	160°
Video	Input Mode	SXGA
	Horizontal	15~80KHz
	Vertical	48~75Hz
Display	Resolution	1280*1024
	Contrast Ratio	700:1 Typ
	Brightness	300cd/m ²
	Horizontal Size	376.32
	Vertical Size	301.056
	Colors	16.2M
	Bandwidth	130MHz
Power	Consumption	45W max
	Management	VESA-DPMS
		45W max
		Power Down Mode </ = 3 Watts
	Input	AC/DC Adaptor (Input 110-240VAC, Output 12VDC) Power Start Up Delay < 3sec
Operations	Function Key	5Key
	OSD Adjustment	Contrast, Brightness, Phase, Clock, H-position, V-position, Exit
Input Signal		0.7Vpp Analog 75 ohm
Sync		TTL Level Separate, Composite
Windows Compatibility		Windows 98/2000
PC Interface		Analog Interface
Signal Cable		Standard VGA cable w/15-pin D-sub
EMI/Safety		
Operating Temperature		0°C ~ 40°C
Humidity		10~85%
Outer Dimension(L*W*H)mm		407.9*333.7*51.2
Packing Dimension(L*W*H)mm		495*435*475
Weight	W/O Touch	24.1 Kg / 3PCS
Approx	W/I Touch	

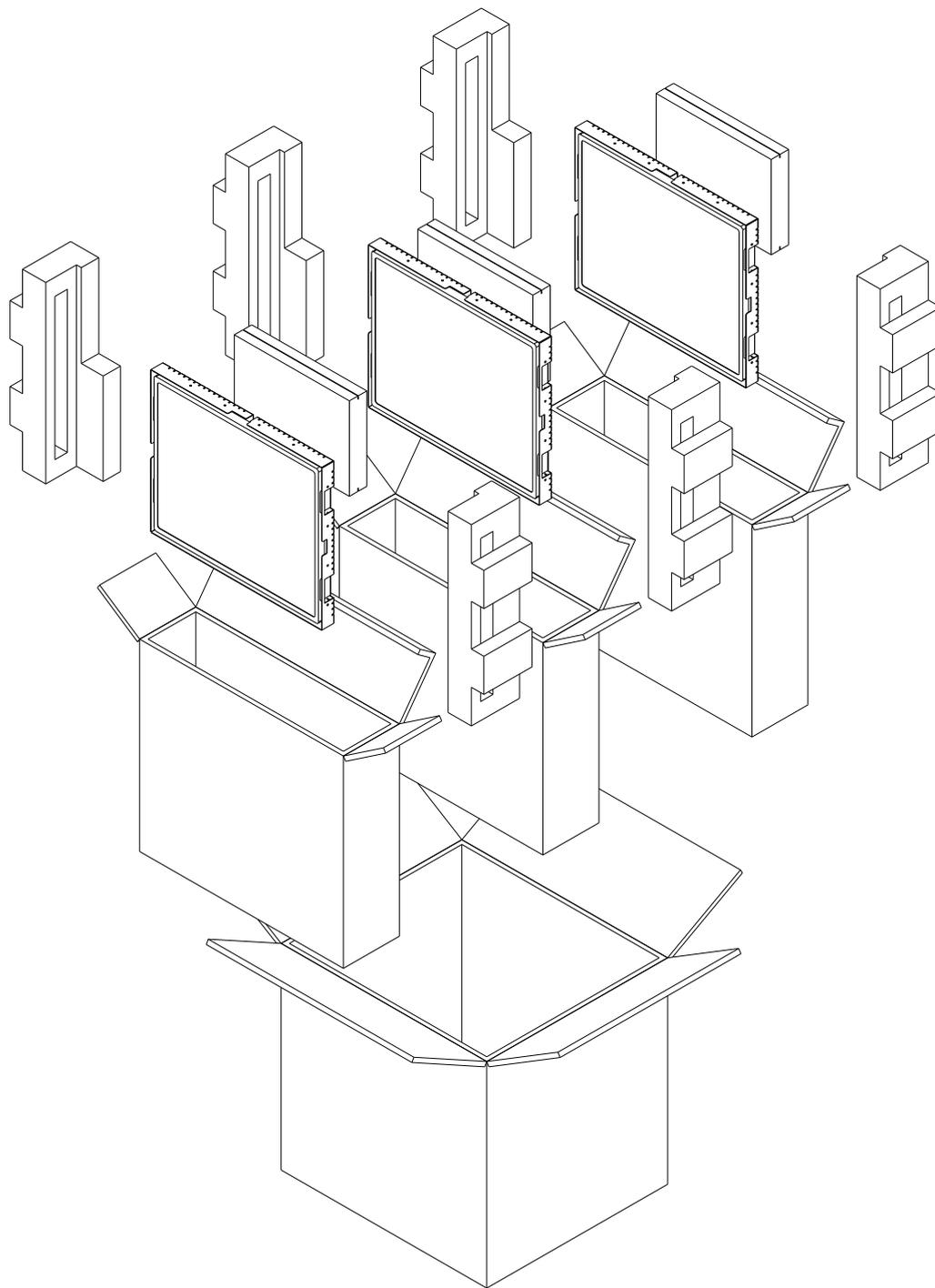
**Support
PC Timing**

Item	Resolution	H Freq.(kHz)	V Freq.(Hz)	Note
1	640x400@70	31.469	70.087	VGA
2	640x480@60	31.469	59.940	VGA
3	640x480@72	37.861	72.809	VGA
4	640x480@75	37.500	75.000	VGA
5	800x600@56	35.156	56.250	SVGA
6	800x600@60	37.879	60.317	SVGA
7	800x600@72	48.077	72.188	SVGA
8	800x600@75	46.875	75.000	SVGA
9	1024x768@60	48.363	60.004	XGA
10	1024x768@70	56.476	70.069	XGA
11	1024x768@75	60.023	75.029	XGA
12	1280x1024@60	64	60.003	SXGA
13	1280x1024@72	76.8	72.0	SXGA
14	1280x1024@75	80.0	75.0	SXGA
15	640x215@57	15.1	57.6	CGA
16	640x198@58	15.4	58.8	CGA
17	640x215@60	15.7	60	CGA
18	640x215@61	16.0	61	CGA
19	640x215@62	16.3	62	CGA
20	640x215@63.4	16.6	63.4	CGA
21	640x215@64	16.8	64	CGA
22	640x265@50	15.6	50.3	CGA
23	640x350@58	21.8	58.9	EGA
24	645x355@59	24.4	59.5	EGA
25	720x378@52	23.5	52	EGA
26	720x400@57	26.4	57.4	EGA

OUTER DIMENSION



PACKING



MT35191B1-0H

Units: mm

Inner box	480X135X445	1PCS
Outer box	495X435X475	3PCS



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