

# High Definition Plasma Display

## TH - 103PF9EK

### [ Product summary ]

- 103" **1080p** High Definition Plasma Display for Professional use
- "Super Cinema Mode" - perfectly tuned color setting for true professional users - enables a reference monitor level of color reproduction on native 1080p high resolution panel
- Equipped with three interchangeable slots - provides flexible and powerful system solution by adding/exchanging a wide variety of optional plug-in boards
- New optional plug-in boards are also available to maximize 1080p resolution panel performance - TY-FB9FDD (UxGA compatible DVI board (pre-installed when shipped)), TY-FB9HD (full 10 bit processing HD-SDI board)
- Available with various unique professional features like, Dual picture mode, Digital zoom, Built-in video wall image enlarger, etc...

### [ Product specification ] (design and specification subject to change without notice)

Display	
Screen Size (Diagonal)	103 - inch (260.4 cm)
Aspect ratio	16:9
Effective Display Area (W x H)	2,269 x 1,277 mm
Resolution (H x V)	1,920 x 1,080 pixels (1pixel=3cells for R,G and B)
Pixel Pitch (H x V)	1.182 x 1.182 mm
Brightness	1,000 cd/m <sup>2</sup>
Contrast Ratio (Bright room)	Max. 5,000:1 (400:1)
Gradation	4,096 steps (equivalent)
Signal Compatibility	
Scan Rate	Horizontal frequency 15-110 kHz Vertical frequency 48 -120Hz
PC Signal Compatibility	VGA, SVGA, WVGA, WSVGA, XGA, SXGA, XGA+, SXGA+, WXGA UXGA, WUXGA .....(Compressed)
Supported Video Standards	NTSC, PAL, PAL 60, SECAM, Modified NTSC
Video Signal Compatibility	525(480)/60i·60p, 625(575)/50i·50p, 750(720)/60p·50p, 1125(1080)/60i·50i·24p·24sF·25p·30p·60p·50p, 1250(1080)/50i
Input / Output	
Fixed Terminal	
PC IN	Mini D-sub 15pin x1 Analog RGB / Component - Plug & Play (VESA DDC 1/2B)
AUDIO IN	M3 jack x 1
SERIAL	D-sub 9-pin x 1 External control, RS-232C compatible
AUDIO OUT	RCA pin jack x2(L/R) Output level : VARIABLE
Interchangeable Terminals	
(Slot1) Vacant	
(Slot2:TY-FB9FDD) DVI-D IN	DVI 24 pin x 1
AUDIO IN	M3 jack x 1 L / R : 0.5 Vrms
(Slot3:TY-42TM6A) COMPONENT IN	BNC x 3 Analog RGB / Component
AUDIO IN(L/R)	RCA pin jack x 2
ELECTRICAL	
Power Requirements	AC 220 - 240 V, 50Hz/60Hz
Power Consumption	1500 W
Power off condition	0.5 W
Stand-by condition	Save Off 1.5 W, Save On 1.3 W
SOUND	
MECHANICAL	
Dimensions (W x H x D)	2,414 x 1,421 x 129 mm (141mm when including protruding portion of slots)
Weight	approx. 220 kg
Cabinet color	Black
ENVIRONMENTAL	
Operating environment	
Temperature	0 °C - 40 °C
Humidity	20 % - 80 % (Non condensation)
Altitude	0 - 2,400 m
Storage environment	
Temperature	-20°C - 60 °C
Humidity	20% - 90% (Non condensation)
Altitude	0 - 3,300m
RADIATION REGULATIONS	
EN55022 Class-B, EN55024, EN61000-3-2, EN61000-3-3	
SAFETY STANDARDS	
EN60065 Ner.7	
IR REMOTE CONTROL	
Power Requirements	DC 3V (UM3 battery x 2)
Operation distance	approx. 7m in front of plasma display
Weight	approx. 130g including batteries
INCLUDED ACCESSORIES	
- Remote controller - Batteries - Fixing Band x 2 - Power supply cord x 2 - Operating instruction book - Allenwrench - Eyebolt cap x 3	
OPTIONAL ACCESSORIES	
- Wall-hanging bracket ( vertical ) - Pedestal - Terminal boards	

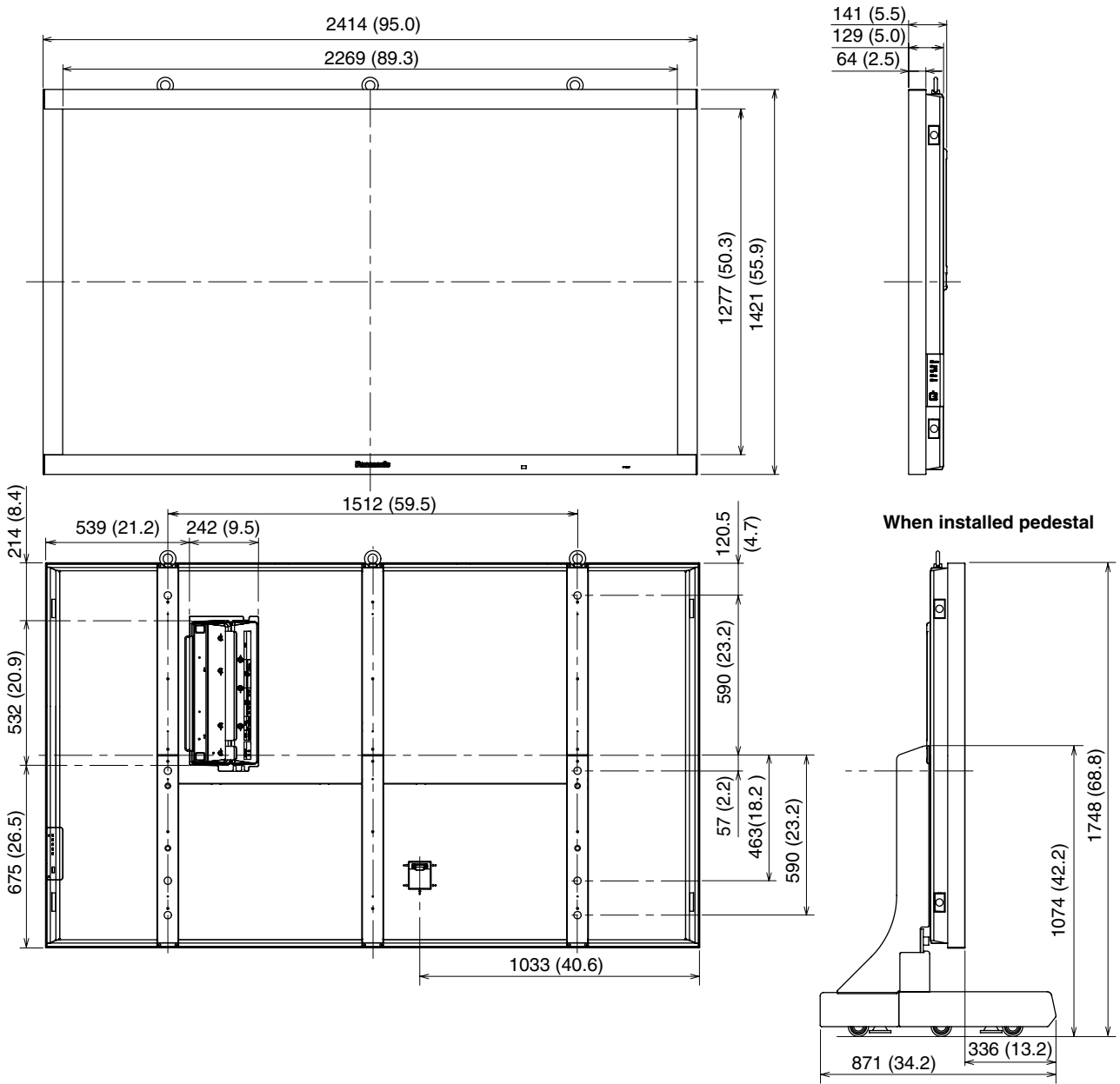
**Panasonic**

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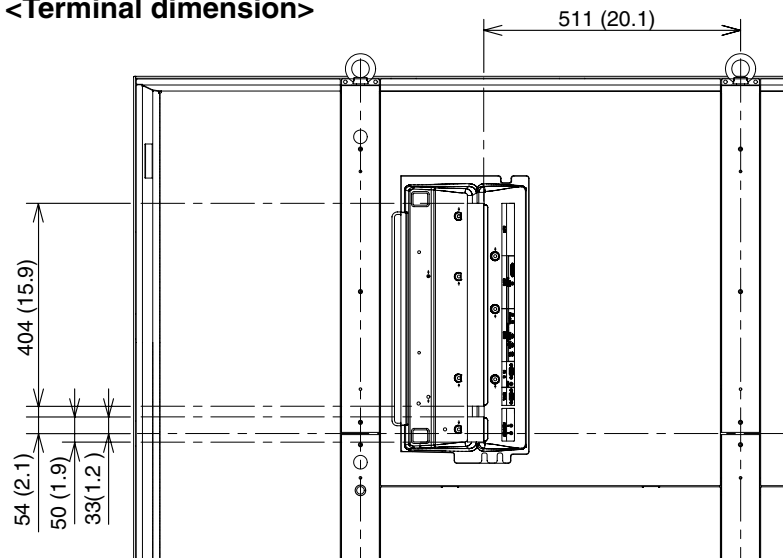
## ■ Dimensions (Shown with optional Pedestal stand)

Units : mm (inches)

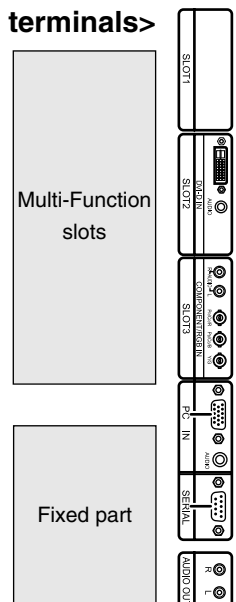
Three eye bolts are attached on the top of the unit as shown in the diagram when the unit is shipped. They can be utilized for hoisting up the unit, and can be removed after installation.



### <Terminal dimension>



### <Connection terminals>



# Preset Input Signals

Signal name	horizontal frequency (kHz)	vertical frequency (Hz)	Optional Terminal Board														
			Composite/Component Video TY-42TM6Y	Component Video TY-42TM6AZ	PC Input TY-42TM6P	RGB Active Through TY-42TM6G	Composite Video TY-42TM6B/V	BNC Dual Video TY-FB9BD	DVI-D TY-FB9FDD	SDI TY-FB7SD	HD-SDI TY-FB9HD	HDMI TY-FB8HM	SCART TY-FB8SC	PC IN(D-sub 15-pin) Fixed Terminal			
<b>Composite</b>	NTSC	15.73	59.94	Y				Y	Y				Y				Y
	PAL	15.63	50.00	Y				Y	Y								Y
	PAL60	15.73	59.94	Y				Y	Y								Y
	SECAM	15.63	50.00	Y				Y	Y								Y
	Modified NTSC	15.73	59.94	Y				Y	Y								Y
<b>Component / RGB</b>	525(480)/60i	15.73	59.94	Y	Y	Y	Y			Y	Y						Y
	525(480)/60p	31.47	59.94	Y	Y	Y	Y			Y		Y					Y
	625(575)/50i	15.63	50.00	Y	Y	Y	Y			Y	Y						Y
	625(575)/50p	31.25	50.00	Y	Y	Y	Y										Y
	625(576)/50p	31.25	50.00							Y			Y				
	750(720)/60p	45.00	60.00	Y	Y	Y	Y			Y		Y	Y				Y
	750(720)/50p	37.50	50.00	Y	Y	Y	Y			Y		Y	Y				Y
	1125(1080)/60i	33.75	60.00	Y	Y	Y	Y			Y		Y	Y				Y
	1125(1080)/60p	67.50	60.00	Y	Y	Y	Y			Y							Y
	1125(1080)/50i	28.13	50.00	Y	Y	Y	Y			Y		Y	Y				Y
	1125(1080)/50p	56.25	50.00	Y	Y	Y	Y			Y							Y
	1125(1080)/30p	33.75	30.00	Y	Y	Y	Y					Y					Y
	1125(1080)/25p	28.13	25.00	Y	Y	Y	Y					Y					Y
	1125(1080)/24p	27.00	24.00	Y	Y	Y	Y					Y					Y
	1125(1080)/24sF	27.00	48.00	Y	Y	Y	Y					Y					Y
	1250(1080)/50i	31.25	50.00	Y	Y	Y	Y										Y
<b>RGB</b>	640x400@70	31.46	70.07	Y	Y	Y	Y										Y
	640x480@60	31.47	59.94	Y	Y	Y	Y		Y				Y				Y
	640x480@72	37.86	72.81	Y	Y	Y	Y										Y
	640x480@75	37.50	75.00	Y	Y	Y	Y										Y
	640x480@85	43.27	85.01	Y	Y	Y	Y										Y
	852x480@60	31.47	59.94	Y	Y	Y	Y		Y								Y
	800x600@56	35.16	56.25	Y	Y	Y	Y										Y
	800x600@60	37.88	60.32	Y	Y	Y	Y		Y								Y
	800x600@72	48.08	72.19	Y	Y	Y	Y										Y
	800x600@75	46.88	75.00	Y	Y	Y	Y										Y
	800x600@85	53.67	85.06	Y	Y	Y	Y										Y
	1066x600@60	37.88	60.32	Y	Y	Y	Y		Y								Y
	1024x768@50	39.55	50.00						Y								
	1024x768@60	48.36	60.00	Y	Y	Y	Y		Y								Y
	1024x768@70	56.48	70.07	Y	Y	Y	Y										Y
	1024x768@75	60.02	75.03	Y	Y	Y	Y										Y
	1024x768@85	68.68	85.00	Y	Y	Y	Y										Y
	1366x768@50	39.55	50.00						Y								
	1366x768@60	48.36	60.00	Y	Y	Y	Y		Y								Y
	1152x864@60	53.70	60.00						Y								
	1152x864@75	67.50	75.00	Y	Y	Y	Y										Y
	1280x960@60	60.00	60.00	Y	Y	Y	Y										Y
	1280x960@85	85.94	85.00	Y	Y	Y	Y										Y
	1280x1024@60	63.98	60.02	Y	Y	Y	Y		Y								Y
	1280x1024@75	79.98	75.03	Y	Y	Y	Y										Y
	1280x1024@85	91.15	85.02	Y	Y	Y	Y										Y
	1400x1050@60	65.22	60.00						Y								
	1600x1200@60	75.00	60.00	Y	Y	Y	Y		Y								Y
	1600x1200@65	81.25	65.00	Y	Y	Y	Y										Y
	1920x1200@60	74.04	59.95						Y								
	Mac13"(640x480)	35.00	66.67	Y	Y	Y	Y										Y
	Mac16"(832x624)	49.72	74.54	Y	Y	Y	Y										Y
	Mac21"(1152x870)	68.68	75.06	Y	Y	Y	Y										Y

## Serial RS232C : D-sub 9-Pin (Male)



### Pin Assignment and Signal Name

Pin No.	Signal name	Descriptions
1	CD	NC
2	RXD	Receive Data
3	TXD	Transmit Data
4	DTR	Not used
5	GND	Ground
6	DSR	Not used
7	RTS	Short Circuit
8	CTS	
9	RI	NC

### Communication parameters

Signal Level	Complied with RS232C
Synchronization method	Asynchronous
Baud Rate	9600 bps
Parity	None
Character Length	8 bits
Stop Bit	1 bit
Flow control	-

## PC Input : D-Sub 15-Pin (Female)



### Signal Name

Pin No.	Signal name
1	R (P <sub>R</sub> /C <sub>R</sub> )
2	G (Y)
3	B (P <sub>B</sub> /C <sub>B</sub> )
4	NC (Not connected)
5	GND (Ground)
6	GND (Ground)
7	GND (Ground)
8	GND (Ground)
9	NC (Not connected)
10	GND (Ground)
11	NC (Not connected)
12	SDA
13	HD/SYNC
14	VD
15	SCL