

# High Definition Plasma Display

## TH - 50PF9UK

### [ Product summary ]

- 50" **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)

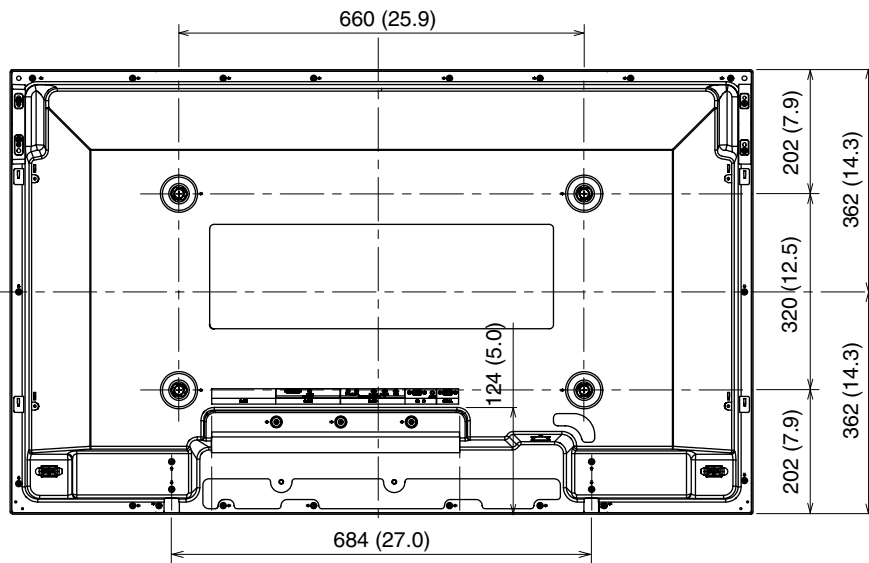
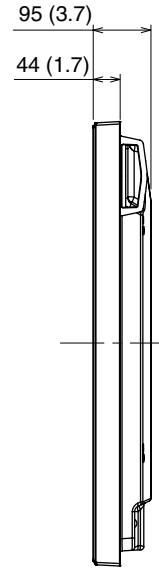
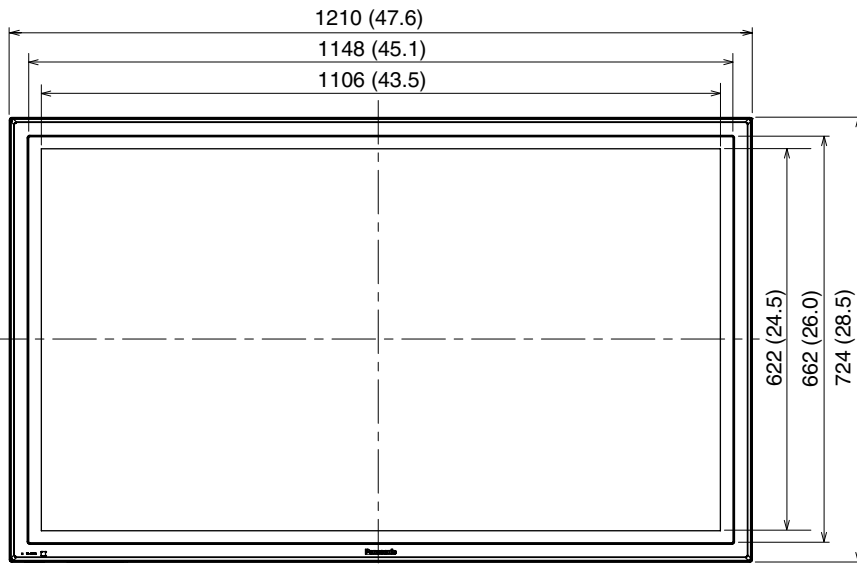
Display	
Screen Size (Diagonal)	50 - inch (127 cm)
Aspect ratio	16:9
Effective Display Area (W x H)	43.5" x 24.5" (1,106 x 622 mm)
Resolution (H x V)	1,920 x 1,080 pixels (1pixel=3cells for R,G and B)
Pixel Pitch (H x V)	0.576 x 0.576 mm
Brightness	1,000 cd/m <sup>2</sup>
Contrast Ratio (Bright room)	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
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 120 V, 50Hz/60Hz
Power Consumption	650 W
Power off condition	0.1 W
Stand-by condition	Save Off 1.0 W, Save On 0.8 W
SOUND	
Audio Output	16 W [8 W + 8 W] (10% THD)
MECHANICAL	
Dimensions (WxHxD)	47.6" x 28.5" x 3.7" (1,210 x 724 x 95 mm) (exclusive protruding portion)
Weight	approx. 93 lbs. (42 kg)
Cabinet color	Black
ENVIRONMENTAL	
Operating environment	
Temperature	32°F - 104°F (0 °C - 40 °C)
Humidity	20 % - 80 % (Non condensation)
Altitude	0 - 9,100 feet ( 0 - 2,800m )
Storage environment	
Temperature	-4°F - 140°F (-20°C - 60 °C)
Humidity	20% - 90% (Non condensation)
Altitude	0 - 10,800 feet (0 - 3,300m)
EMI REGULATIONS	
FCC Part 15 Class-B, ICES-003	
SAFETY STANDARDS	
UL6500 Ver.2	
IR REMOTE CONTROL	
Power Requirements	DC 3V (UM3 battery x 2)
Operation distance	approx. 23 feet (7m) in front of plasma display
Weight	approx. 4.6 oz (130g) including batteries
INCLUDED ACCESSORIES	
- Remote controller - Batteries - Fixing Band x 2 - AC Power cord - Operating instruction book	
OPTIONAL ACCESSORIES	
- Wall-hanging bracket (vertical, angled, drawer type) - Pedestal - Ceiling-hanging bracket - Mobile stand - Touch Panel - Speakers - Anti-glare filter - Terminal boards	

**Panasonic**

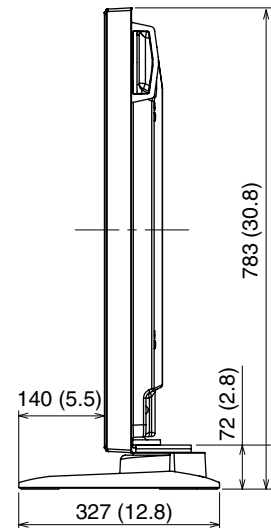
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**■Dimensions (Shown with optional Pedestal stand)**

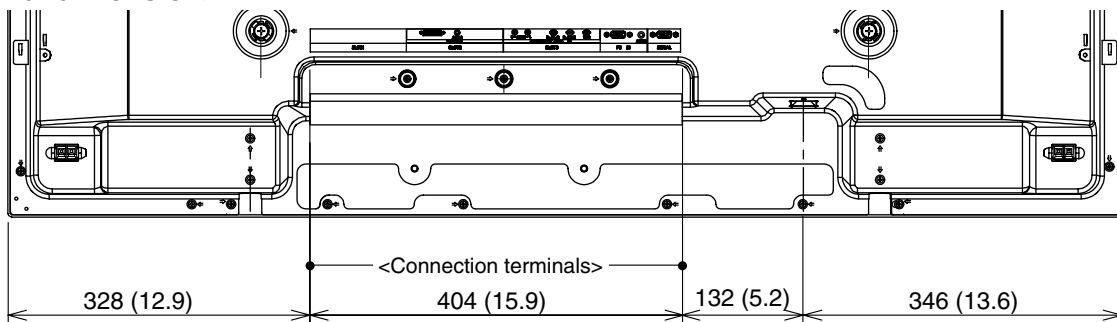
Units : mm (inches)



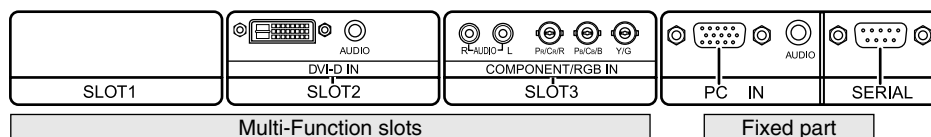
When installed pedestal



**<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-42TM6BV	BNC Dual Video TY-FB9BD	DVI-D TY-FB9FDD	SDI TY-FB7SD	HD-SDI TY-FB9HD	HDMI TY-FB8HM	PC IN(D-sub 15-pin) Fixed Terminal				
Composite	NTSC	15.73	59.94	Y				Y	Y									
	PAL	15.63	50.00	Y				Y	Y									
	PAL60	15.73	59.94	Y				Y	Y									
	SECAM	15.63	50.00	Y				Y	Y									
	Modified NTSC	15.73	59.94	Y				Y	Y									
Component / RGB	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	Y	Y	
	750(720)/50p	37.50	50.00	Y	Y	Y	Y			Y			Y	Y	Y	Y	Y	
	1125(1080)/60i	33.75	60.00	Y	Y	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	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		
RGB	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

## Transmitting Conditions

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