

# High Definition Plasma Display

# TH - 65PF9EK TH - 65PF9BK

## [ Product summary ]

- 65" **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)

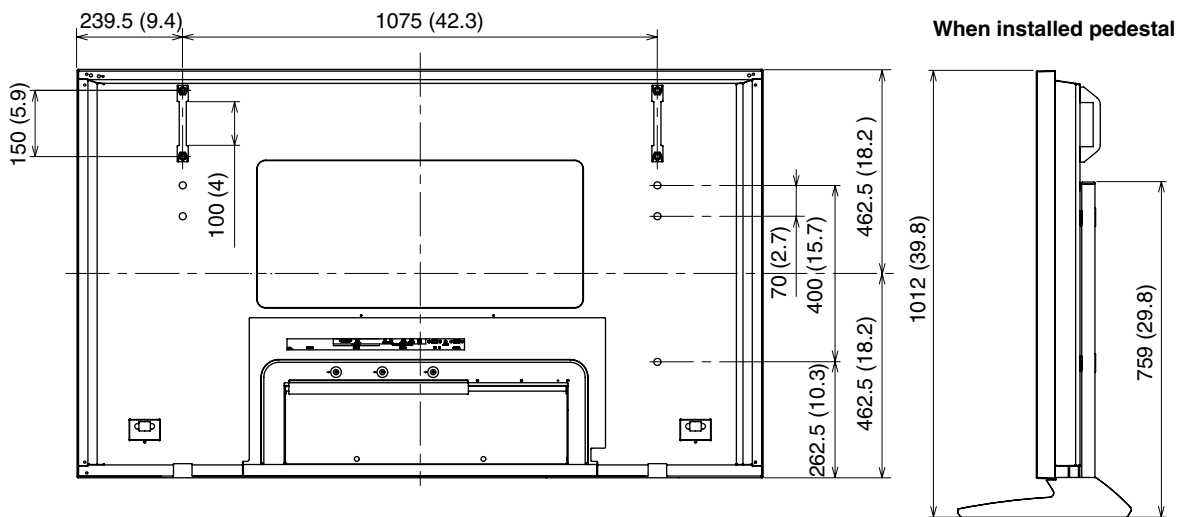
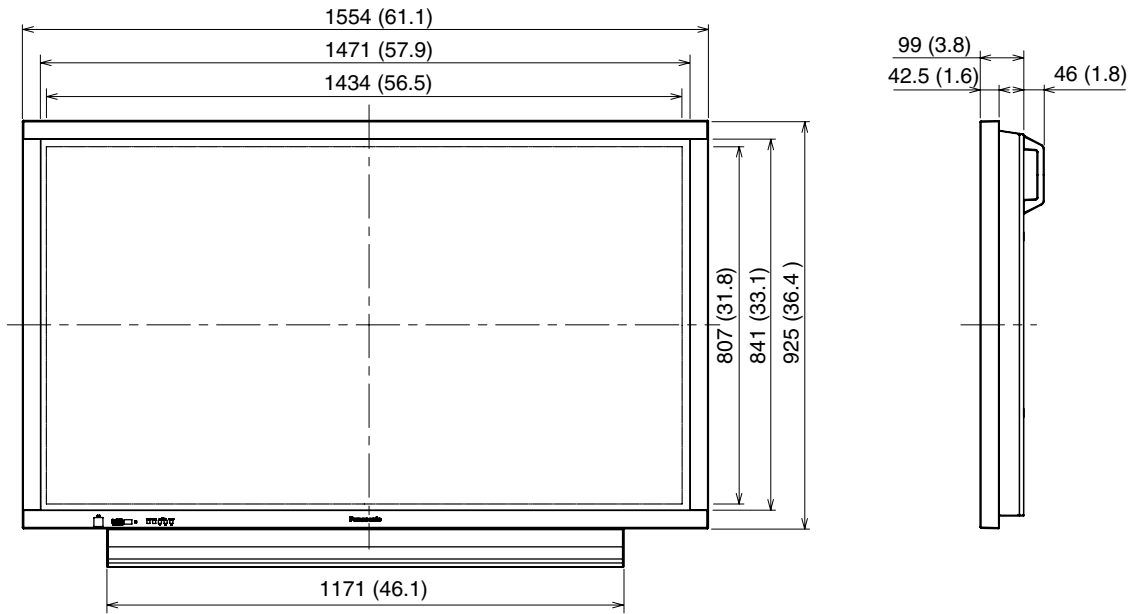
Display	
Screen Size (Diagonal)	65 - inch (164.6 cm )
Aspect ratio	16:9
Effective Display Area (W x H)	1,434 x 807 mm
Resolution (H x V)	1,920 x 1,080 pixels (1pixel=3cells for R,G and B)
Pixel Pitch (H x V)	0.747 x 0.747 mm
Brightness	1,000 cd/m <sup>2</sup>
Contrast Ratio (Bright room)	Max. 5,000:1 (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 220-240 V, 50Hz/60Hz
Power Consumption	725 W
Power off condition	0.3 W
Stand-by condition	Save Off 1.2 W, Save On 1.0 W
SOUND	
Audio Output	20 W [10 W + 10 W] (10% THD)
MECHANICAL	
Dimensions (WxHxD)	1,554 x 925 x 99 mm (exclusive protruding portion)
Weight	approx. 74 kg
Cabinet color	Black
ENVIRONMENTAL	
Operating environment	
Temperature	0 °C - 40 °C
Humidity	20 % - 80 % (Non condensation)
Altitude	0 - 2,800 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 CONTROLLER	
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 - AC Power cord - Operating instruction book	
OPTIONAL ACCESSORIES	
- Wall-hanging bracket ( vertical, angled ) - Pedestal - Touch Panel - Speakers - Anti-glare filter - Terminal boards	

**Panasonic**

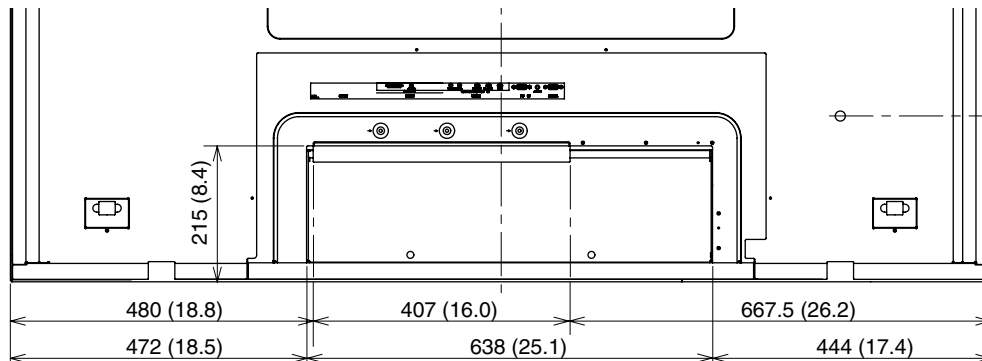
TH-65PF9E/BK\_060831(1/3)

# ■ Dimensions (Shown with optional Pedestal stand)

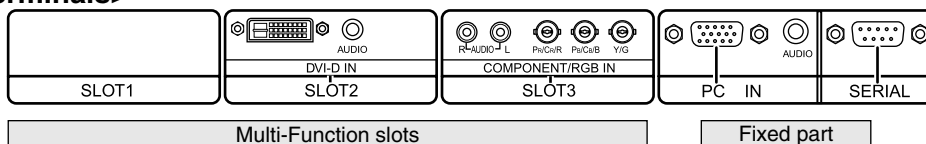
Units : mm (inches)



## <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