

# SHARP

## Professional LCD Monitor

PN-G655U/PN-G655E

PN-G655RU/PN-G655RE

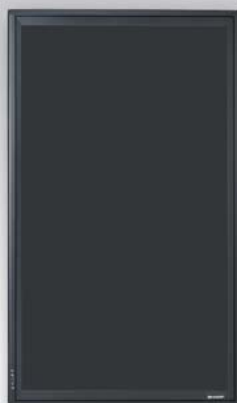
PN-465U/PN-465E

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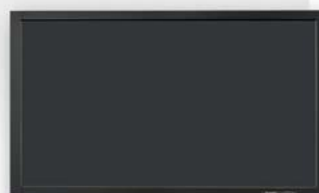
### See the Difference with Our Range of Outstanding Full HD Resolution Professional LCD Monitors.



PN-G655U/PN-G655E  
65inch Full HD LCD  
(Landscape)



PN-G655RU/PN-G655RE  
65inch Full HD LCD  
(Portrait)



PN-465U/PN-465E  
46inch Full HD LCD  
(Landscape & Portrait)

**65inch Model**  
**46inch Model**

1,920x1,080 Pixels  
ASV Black TFT LCD

# Sharp PN series are attractive LCDs for a wide range

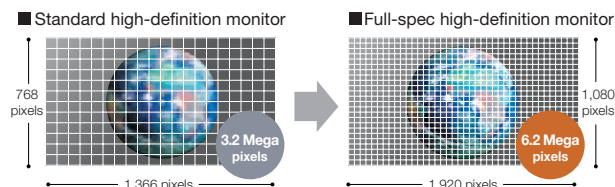
## 1080p Full-HD ASV Black TFT

### Full High Definition Resolution

The Sharp proprietary LCD with 1,920 x 1,080 native resolution delivers dynamic visual impact to audiences with true life color reproduction and crisp text image on a large screen format. The LCD technology achieves high brightness, high contrast ratio and wide viewing angle. The monitors accept full native 1080p signal in both digital & analog PC input and HD video sources through DVI (HDCP compatible).

### ASV Black TFT

ASV Black TFT technology helps to reduce screen glare and reflection that makes the LCD as one of the best flat panel technologies to install in most of commercial applications such as point-of-sales materials in retails, flight information and public information.



## Designed for Commercial Use

### 24/7

Rugged enclosure and well-selected components offer superior reliability for extended use in dedicated commercial applications including retail, out-of-home advertising, public transportations and controlroom displays.

### Portrait

Depend on the contents and information of the application, Sharp offers a choice of LCD monitors for landscape and portrait installations.

\* Required application software or equipment to view information in portrait orientation.



### Back Metal Cabinet, Carrying Handle

The monitors are housed in a rugged back metal cabinet with carrying handle and equipped with VESA\* compliant mounting holes that allow Sharp monitors to be placed on the wall with industry standard mounting brackets.



\*PN-G655U/PN-G655E and PN-G655RU/PN-G655RE have unique hole configuration

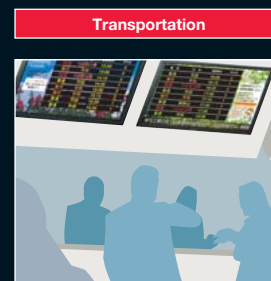
### Fan-less Architecture and Built-in Temperature Sensor

The monitors are designed to maintain air flow and heat dissipation with no mechanical air-ventilation fans that often cause dust problems and fan noise. When the internal temperature raises for unknown reason, the monitors automatically control the backlight system to keep it below the maximum operational temperature\*.

\* The monitor automatically goes to standby mode, when the internal temperature is above the maximum operational level constantly.

	Kameyama LCD	Full High Definition	ASV Black TFT	24/7	Portrait	Metal Back Cabinet	Carrying Handle	Fan-less Architecture	Temperature Sensor	RS-232C Control
PN-G655U/PN-G655E	●	●	●	●		●	● <sup>*1</sup>	●	● <sup>*2</sup>	●
PN-G655RU/PN-G655RE	●	●	●	●	■ Portrait only	●	● <sup>*1</sup>	●	● <sup>*2</sup>	●
PN-465U/PN-465E	●	●	●	●	●	●	● <sup>*1</sup>	●	● <sup>*2</sup>	●

\*1 Already fitted. \*2 Only when the temperature rises above the rated temperature.



\*Not for use in an extreme environment

# of commercial settings.

## Maintenance

### Diagnostic RS-232C Central Control

Sharp monitors are equipped with an RS-232C interface that allows monitors to be fully and easily controlled, monitored and diagnostics at a central location such as remotely turn on and off an individual monitor, change video input and even scan the internal temperature of each monitor.



### Scheduling

Schedule function allows user/operator to set up to 8 schedule of when to turn on/off with which input mode. Each schedule can be set on exact time in a daily, weekly cycle or one-time operation.

### Detachable Bezel

The detachable front bezel design helps easy front cabinet repair, flexible enclosure design and wall embedded installations.



\*PN-465U/PN-465E only.

## Full Complement of Commercial Features

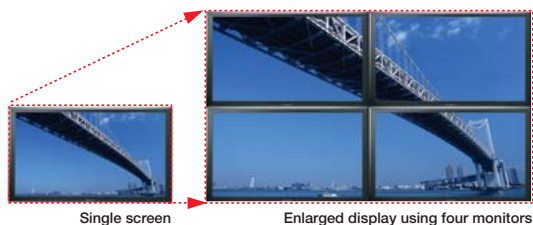
### Flexible Image Formats

Large amounts of information can be presented in a dynamic way with built-in screen image functions that creates "2x2", "3x3", "4x4" and "5x5" videowall from a PC signal as well as "Picture-in-Picture" (PIP) and "Picture-by-Picture"(PbyP) that allow simultaneous display of a second AV/PC source.

\* Separate video splitter is required for "3x3", "4x4", "5x5" or RGB PC analog signal.  
\* "PIP" and "PbyP" : Monitors can show one PC and one AV source simultaneously.

#### ■ Enlargement

Frame correction function prevents misalignment.



### Power on Delay

Power supply (wattage) is a factor when designing videowalls or multi-screen installations. The function specifies each monitor the time lag and prevent unexpected power surge that happens when number of monitors are powered on simultaneously, which consequently helps to minimize the cost of system installation.

### Lockable Key Panel

All control keys on the monitor are hidden and keep a clean professional appearance. The LED indicator on the front cabinet can be turned off, which helps to create a better look when creating a videowall.

### Color Adjustment

For applications where the colors are vital, Sharp monitors offer extensive color adjustment capabilities including black level (brightness), contrast, tint, sharpness, white balance (RGB manual setting) and gamma value.

\*Adjustment menu will vary depend on the input menu.

Scheduling	Detachable Bezel	Flexible Image Formats	Power on Delay	Lockable Key Panel	Color Adjustment
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●

### World Renowned Factory

The professional LCD monitor uses state-of-the-art panels manufactured at Sharp Kameyama Plant in Japan.



#### Medical Use



In life supports situations require a very high level of reliability and safety.

#### QSR / Restaurant



#### HD Videoconferencing



#### CAD



#### Retail



# The New Professional Monitors, Designed to Cater for All Your Needs.

65inch

65inch Model

Kameyama Full HD LCD Panel

ASV Black TFT LCD

NEW

NEW



For Horizontal Placement

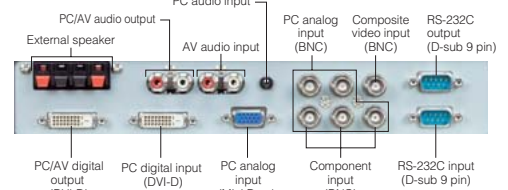
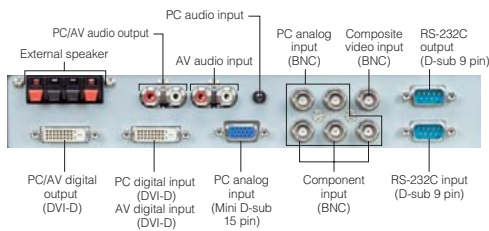
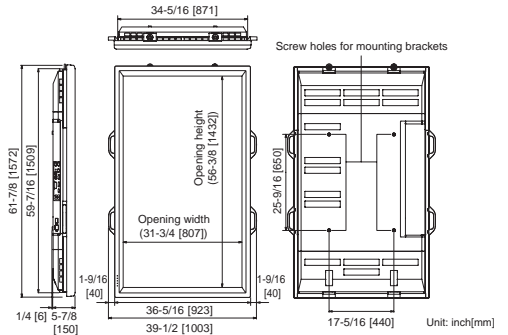
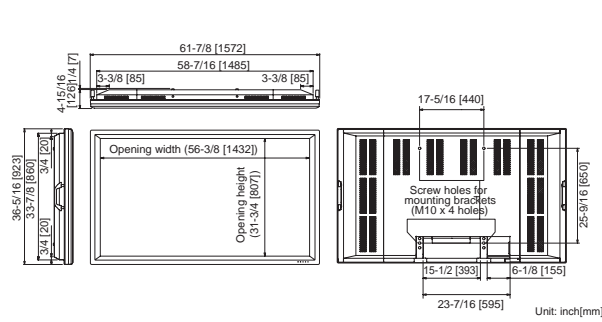
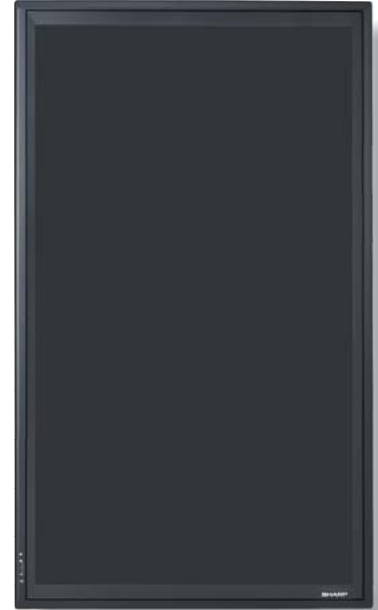
**PN-G655U**  
**PN-G655E**

65inch Full HD LCD

For Vertical Placement

**PN-G655RU**  
**PN-G655RE**

65inch Full HD LCD



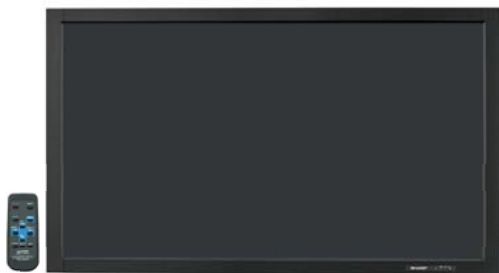
46inch

46inch Model

Kameyama Full HD LCD Panel

ASV Black TFT LCD

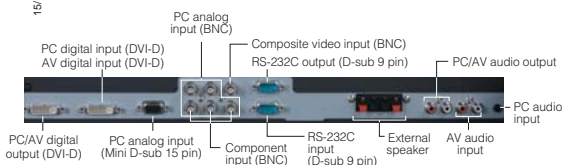
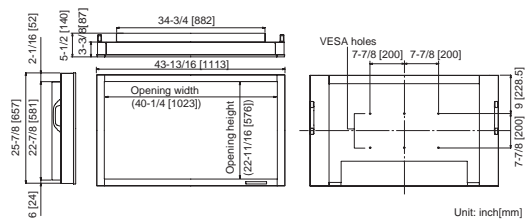
NEW



For Horizontal and Vertical Placement

**PN-465U**  
**PN-465E**

46inch Full HD LCD



## Specifications

PN-G655U, PN-G655RU and PN-465U are distributed in North America  
PN-G655E, PN-G655RE and PN-465E are distributed in Europe, Middle East and Asia

Model		PN-G655U	PN-G655E	PN-G655RU	PN-G655RE	PN-465U	PN-465E	
Orientation		Landscape		Portrait		Landscape / Portrait		
LCD Panel	LCD Type	ASV Black TFT LCD (AGLR)		ASV Black TFT LCD (AGLR)		ASV Black TFT LCD (AGLR)		
	Screen Size	65 inch diagonal (1,428 x 804 mm)		65 inch diagonal (804 x 1,428 mm)		46 inch diagonal (1,018.1 x 572.7 mm)		
	Resolution	1,920 x 1,080 pixels		1,920 x 1,080 pixels		1,920 x 1,080 pixels		
	Display colors	16.77 Million (8bit)		16.77 Million (8bit)		16.77 Million (8bit)		
	Brightness	450cd/m <sup>2</sup>		To be announced		450cd/m <sup>2</sup>		
	Contrast ratio	2000:1		To be announced		1700:1		
	Viewing angle ( H / V )	176° / 176° (CR≥10)		176° / 176° (CR≥10)		176° / 176° (CR≥10)		
	Response time (average)	6ms		To be announced		6ms		
Video color system		PAL, PAL-60, SECAM, NTSC (3.58MHz), NTSC (4.43MHz)		PAL, PAL-60, SECAM, NTSC (3.58MHz), NTSC (4.43MHz)		NTSC (3.58 MHz)	PAL, PAL-60, SECAM, NTSC (3.58MHz), NTSC (4.43MHz)	
Input terminals	Video	PC/AV Digital	DVI-D(24pin) HDCP compatible [DVI1.0]		DVI-D(24pin) HDCP compatible [DVI1.0]		DVI-D(24pin) HDCP compatible [DVI1.0]	
		PC Analog	RGB (mini D-Sub 15 pin ), RGB (BNC x 5) <sup>*1 *2 *3</sup>		RGB (mini D-Sub 15 pin ), RGB (BNC x 5) <sup>*1 *2 *3</sup>		RGB (mini D-Sub 15 pin), RGB (BNC x 5) <sup>*1 *2 *3</sup>	
		AV	Component (BNC: Y, Pb/Cb, Pr/Cr) <sup>*3</sup> (480i/p, 576p, 720p, 1080i), Composite (BNC)		Component (BNC: Y, Pb/Cb, Pr/Cr) <sup>*3</sup> (480i/p, 576p, 720p, 1080i), Composite (BNC)		Component (BNC: Y, Pb/Cb, Pr/Cr) <sup>*3</sup> (480i/p, 576p, 720p, 1080i), Composite (BNC)	
	Serial	RS-232C (D-sub 9 pin x 1)		RS-232C (D-sub 9 pin x 1)		RS-232C (D-sub 9 pin x 1)		
	Audio	PC	φ 3.5 mm mini stereo jack		φ 3.5 mm mini stereo jack		φ 3.5 mm mini stereo jack	
		AV	RCA x 2		RCA x 2		RCA x 2	
Output terminals	Video	DVI-D 24pin <sup>*4</sup>		DVI-D 24pin <sup>*4</sup>		DVI-D 24pin <sup>*4</sup>		
	Serial	RS-232C (D-sub 9 pin x 1)		RS-232C (D-sub 9 pin x 1)		RS-232C (D-sub 9 pin x 1)		
	Audio	Line out (RCA L/R)		Line out (RCA L/R)		Line out (RCA L/R)		
	Speaker	7W + 7W (6 Ω)		7W + 7W (6 Ω)		7W + 7W (6 Ω)		
Functions	Plug & play	VESA DDC2B		VESA DDC2B		VESA DDC2B		
	Power management	VESA DPMS, DVI DMPM		VESA DPMS, DVI DMPM		VESA DPMS, DVI DMPM		
	PC Analog Auto Adjusting	Yes		Yes		Yes		
	User controls	OSD (On Screen Display), Remote control (IR Type), RS-232C		OSD (On Screen Display), Remote control (IR Type), RS-232C		OSD (On Screen Display), Remote control (IR Type), RS-232C		
	OSD Languages	7 Languages (ENG/GER/FRA/ITA/ESP/RUS/JPN)		7 Languages (ENG/GER/FRA/ITA/ESP/RUS/JPN)		7 Languages (ENG/GER/FRA/ITA/ESP/RUS/JPN)		
	Multi-screen capability (enlargement)	PC signal only 2x2,3x3,4x4,5x5		PC signal only 2x2,3x3,4x4,5x5		PC signal only 2x2,3x3,4x4,5x5		
	Bezel image adjustment	Yes		Yes		Yes		
	Image reversing	Yes (Upside down, 180° Rotate, Mirror)		Yes (Upside down, 180° Rotate, Mirror)		Yes (Upside down, 180° Rotate, Mirror)		
	Power-off timer	Yes by Scheduling Function		Yes by Scheduling Function		Yes by Scheduling Function		
	Power-on delay	Yes		Yes		Yes		
Cooling Fan	No Fan		No Fan		No Fan			
Main power switch	Yes		Yes		Yes			
Mounting Method	Four points (440 x 650 mm, M10 screw)		Four points (440 x 650 mm, M10 screw)		VESA Six points (200 x 200 mm, M6 screw)			
Operating Temperature	0°C to 40°C (32 to 104F)		0°C to 40°C (32 to 104F)		0°C to 40°C (32 to 104F)			
Operating Humidity	20% to 80% (Non-condensing)		20% to 80% (Non-condensing)		20% to 80% (Non-condensing)			
Power Voltage	120V AC 60Hz	100V-240V AC 50/60Hz	120V AC 60Hz	100V-240V AC 50/60Hz	120V AC 60Hz	100V-240V AC 50/60Hz		
Power Consumption	550W		To be announced		266W			
Dimensions (W x D x H) with front bezel <sup>*5</sup> w/o front bezel	1,572 x 126 x 923 mm [61.9 x 5.0 x 36.3 inch]		923 x 150 x 1,572 mm [36.3 x 5.9 x 61.9 inch]		1,113 x 140(132 <sup>5</sup> ) x 657 mm [43.8 x 5.5(5.2 <sup>5</sup> ) x 25.9 inch]			
Weight	approx. 65kg [143 lbs.] (w/o stand)		To be announced		approx. 35.5kg [78lbs.] (w/o stand)			
Packaging Dimensions (W x D x H), G/W	approx. 1,720 x 575 x 1,290 mm [67.7 x 22.6 x 50.8 inch], 93kg[204.9 lbs.]		approx. 1,170 x 575 x 1,740 mm [46.1 x 22.6 x 68.6 inch], To be announced		approx. 1,275 x 365 x 780 mm [50.2 x 14.4 x 30.7 inch], 44kg[97.0 lbs.]			
Accessories	Power cable, Remote control, Utility disk(CD-ROM), 2 Stand hole protection cover, Temporary stand, Operation manual, 2 R-6 ["AA"] size batteries		Power cable, Remote control, Utility disk(CD-ROM), 2 Stand hole protection cover, Operation manual, 2 R-6 ["AA"] size batteries		Power cable, Remote control, Utility disk(CD-ROM), Vertical logo sticker, Temporary stand, Cable clamp, Power cord clamp, Operation manual, Blank sticker, 2 R-6 ["AA"] size batteries			

Specifications are subject to change without notice.

\*1 Connectors are common between RGB (BNC x5) and Component(Y, Pb/Cb, Pr/Cr: BNC). \*2 Does not support plug and play. \*3 Cannot be used simultaneously.

\*4 Connection is allowed with an HDCP-compatible device only. Does not support Repeater control function. \*5 w/o front bezel

\* Safety standards may not be certified when the fronts bezel are removed.

Shopping Mall



Hotel



Museum



Public Display



## Supported Display Modes (PC)

					PN-G655U/PN-G655E PN-G655RU/PN-G655RE PN-465U/PN-465E	
Screen resolution		Horizontal frequency	Vertical frequency	Dot frequency	Analog signal	Digital signal
VESA	640 x 480	31.5 kHz	60 Hz	25.175 MHz	Yes	Yes
		37.9 kHz	72 Hz	31.5 MHz	Yes	Yes
		37.5 kHz	75 Hz	31.5 MHz	Yes	Yes
	800 x 600	35.1 kHz	56 Hz	36.0 MHz	Yes	–
		37.9 kHz	60 Hz	40.0 MHz	Yes	Yes
		48.1 kHz	72 Hz	50.0 MHz	Yes	Yes
		46.9 kHz	75 Hz	49.5 MHz	Yes	Yes
		60.0 kHz	75 Hz	102.25 MHz	Yes	Yes
	848 x 480	31.0 kHz	60 Hz	33.75 MHz	Yes	Yes
	1024 x 768	48.4 kHz	60 Hz	65.0 MHz	Yes	Yes
		56.5 kHz	70 Hz	75.0 MHz	Yes	Yes
		60.0 kHz	75 Hz	78.75 MHz	Yes	Yes
	1152 x 864	67.5 kHz	75 Hz	108.0 MHz	Yes	Yes
	1280 x 768	47.8 kHz	60 Hz	79.5 MHz	Yes	Yes
		60.3 kHz	75 Hz	102.25 MHz	Yes	Yes
	1280 x 960	60.0 kHz	60 Hz	108.0 MHz	Yes	Yes
1280 x 1024	64.0 kHz	60 Hz	108.0 MHz	Yes	Yes	
	80.0 kHz	75 Hz	135.0 MHz	Yes	Yes	
1360 x 768	47.7 kHz	60 Hz	85.5 MHz	Yes	Yes	
1600 x 1200 <sup>**</sup>	75.0 kHz	60 Hz	162.0 MHz	Yes	Yes	
Wide	1280 x 720	44.7 kHz	60 Hz	74.4 MHz	Yes	Yes
	1920 x 1080	66.3 kHz	60 Hz	148.5 MHz	Yes <sup>2</sup>	Yes
US TEXT	720 x 400	31.5 kHz	70 Hz	28.3 MHz	Yes	Yes
Sun Ultra Series	1024 x 768	48.3 kHz	60 Hz	64.13 MHz	Yes	–
		53.6 kHz	66 Hz	70.4 MHz	Yes	–
		56.6 kHz	70 Hz	74.25 MHz	Yes	–
	1152 x 900	61.8 kHz	66 Hz	94.88 MHz	Yes	–
		71.8 kHz	76.2 Hz	108.23 MHz	Yes	–
	1280 x 1024	71.7 kHz	67.2 Hz	117.01 MHz	Yes	–
		81.1 kHz	76 Hz	134.99 MHz	Yes	–
1600 x 1000	68.6 kHz	66 Hz	135.76 MHz	Yes	–	

\*1 Displays a reduced image. \*2 A screen with 1920 x 1080 resolution may not be displayed correctly with PC analog (BNC). In this case, check the settings of your computer (graphics card) to verify that input signals conform to specs of this monitor.

\* All signals are supported only with non-interlaced. \* Depends on the connected PC, images may not be displayed properly even if the compatible signal described above is input.

\* The frequency values of the Sun Ultra Series are for connecting the monitor to the Sun Ultra Series. A separate conversion adapter (commercially available) may be required for connecting the monitor to the Sun Ultra Series.

## PN-ZT10E (Sold separately)

Featuring a decent bezel-and front glass, the PN-ZT10E touch panel overlay is designed to fit the 65-inch Sharp commercial display series. Typical applications will include medical referential display, point of sale devices, public information kiosks, retail bank, and command systems. Sharp PN-ZT10E touch panel combines infrared LED emitters, phototransistor detectors, and mounting hardware. A clear hard-coated anti-glare glass that is bonded to the bezel increases visual experience of the display while protecting the display face. It also delivers a fast, accurate touch response every time.

\* Product availability may vary according to region.



Applicable display models		PN-655E/PN-G655E
Type / Touch panel technology	Flat / Infrared LED <on two sides>	
PC connector	USB (1.1)	
LED Indicator	Indication of Pen mode or Mouse mode	
Panel Aperture	1,441(W) x 817(D)mm / 56.7(W) x 34.3(D)inch	
Detection range	1,428(W) x 808(D)mm / 56.2(W) x 31.8(D)inch	
Resolution	358(W) x 203(D)	
USB driver/OS	Windows XP (Pro, Home)	
Protection Panel	Material	Glass (3mm)
	Surface Processing	AR Film
Accessories	Touch panel pen, USB cable, 2 R-03 ["AAA"] size batteries, 5 Mounting Plate, 10 Screws, Utility Disk, Blank label	
Power Consumption	Below +5V 450mA (through USB cable)	
Temperature Condition	5°C to 35°C (41 to 95°F)	
Humidity Condition	20% to 80% (Non-Condensing)	
Dimensions	1,622(W) x 971(H) x 84(D)mm / 63.9(W) x 38.2(H) x 3.3(D) inch	
Weight	Approx. 23kg [51 lbs.]	
Shipping Case	1,770(W) x 1,080(H) x 455(D)mm / approx. 42kg	

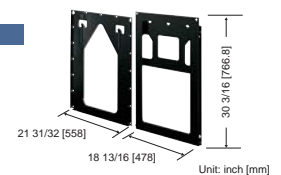
## Supported Display Modes AV digital input (DVI-D, HDCP compatible)

		PN-G655U/PN-G655E PN-G655RU/PN-G655RE PN-465U/PN-465E
640 x 480p	59.94 Hz	Yes
	60 Hz	Yes
720 x 480p	59.94 Hz	Yes
	60 Hz	Yes
720 x 576p	50 Hz	Yes
	50 Hz	Yes
1280 x 720p	50 Hz	Yes
	59.94 Hz	Yes
	60 Hz	Yes
1920 x 1080i	50 Hz	Yes
	59.94 Hz	Yes
	60 Hz	Yes
1920 x 1080p	50 Hz	Yes
	59.94 Hz	Yes
	60 Hz	Yes

### 65inch Model

#### Wall Bracket

**AN-65AG1**  
Same as for the AQUOS



## More About the Products

### Using the product

- Mounting the monitor on the wall requires special expertise and the work must be performed by an authorized SHARP dealer. You should never attempt to perform any of this work yourself. Our company will bear no responsibility for accidents or injuries caused by improper mounting or mishandling.
- The TFT color LCD panel used this monitor is made with the application of high precision technology. However, there may be minute points on the screen where pixels never light or are permanently lit. Also, if the screen is viewed from an acute angle there may be uneven colours or brightness. Please note that these are not malfunctions but common phenomena of LCDs and will not affect the performance of the monitor.
- Continuous display of static images may result in temporary image memory effect on the screen.
- Using this monitor's screen-size switching or dual-screen display functions to compress or expand the screen for commercial or public viewing in establishments like café or hotels may infringe on the rights of the creators, as protected by Copyright Law, so please be careful.

### Catalogue Notes

- Product specifications are subject to change without notice. Colours of products shown in this catalogue may differ slightly from actual colours due to the limitations of the printing process.
- The displays shown on the LCD monitors appearing in photographs in this catalogue are simulated images.

# SHARP

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