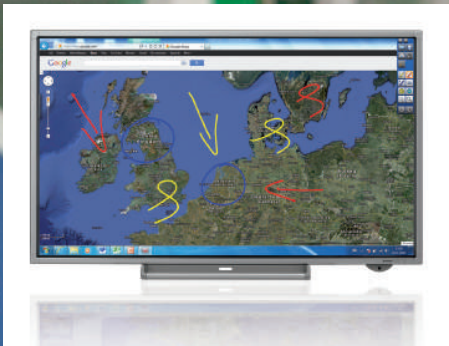


**SHARP**

**BIG PAD**  
Professional Touchscreen LCD Monitor

**BIG PAD**



EASY TO USE TOUCHSCREEN  
MONITORS WITH BREATHTAKING  
IMAGE QUALITY

Today's students are keen to embrace new technology and improve their learning experience /**This is Why** we have developed our range of BIG PAD interactive monitors.



# This is Why

E-learning is increasingly popular with YouTube and iTunes being widely used sources of educational content. Consequently, educators are looking to introduce innovative learning solutions to engage the "digital generation", which is why we have created these highly interactive touch-screen displays.

You can create your own content by writing or drawing on the screen or present virtually any digital file by connecting to a PC. You can view internet pages, access learning portals, refer to pre-prepared class content and call up students' work for peer review. And you can also annotate and manipulate images, make comments on screen and save or print files.

These robust screens are designed for optimum performance in the classroom. An anti-reflective coating ensures comfortable viewing even in brightly lit areas, and highly accurate HD imagery means that everyone can see the content in crisp detail wherever they're sitting. These screens are energy efficient too and they require minimal maintenance to deliver years of trouble-free operation.

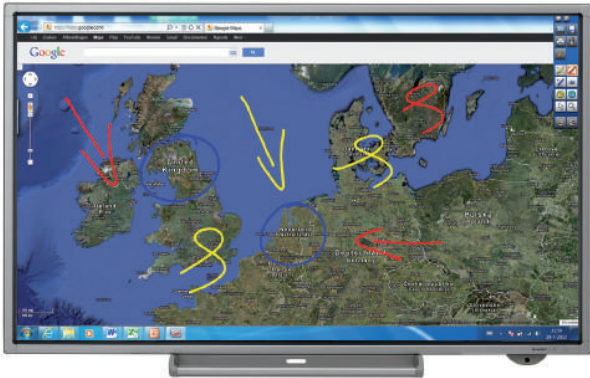


TAFEL	1	2	3	4	5	6	7	8	9	10
YUKLHAN										28/2
LAKYOE										29/4
EVELIEN										
SAKAL										
DAVID										
RHNE										3/1
TIBO										
ERIK										
EVI										X
BOBINE										2/10
SOVIT										3/10

$\frac{1}{2} = 50\%$   
 $\frac{1}{3} = 33\frac{1}{3}\%$   
 $\frac{1}{4} = 25\%$   
 $\frac{1}{5} = 20\%$   
 $\frac{1}{6} = 16\frac{1}{6}\%$



## SIMPLE OPERATION



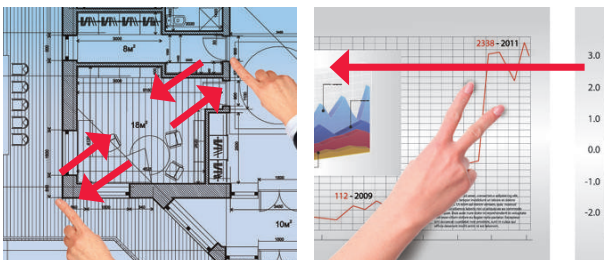
### A natural writing experience

We specifically designed BIG PAD for touchscreen applications. Our accurate infrared technology\*<sup>1</sup> means there's no need to continually calibrate the screens. It also ensures that it's easy to write quickly and easily – using the supplied pen or your finger – and manage a range of interactive tasks.

Students are used to interacting with touch screens and are eager to work on the board, manipulating content to contribute to lessons.

### Easy to use

The displays come with a familiar toolbar interface for key functions. It's easy to access, insert and edit images and documents with options including: writing and highlighting the content, magnifying and rotating images (for example, by using two fingers), saving files, and performing full or partial erasing of images/notes. You can also use sheets for your annotations and edits that you are able to copy, delete, and change. Files can be saved and sent to students electronically (e.g. as a PDF) or printed, if connected to a printer.



\*<sup>1</sup> PN-L802B uses optical touch technology.

### Breathtaking image quality

BIG PAD's LCD panel incorporates Sharp's UV<sup>2</sup>A technology\*<sup>2</sup>. This ensures the efficient use of light from the screen's backlight and generates exceptionally bright whites, amazingly vivid colors, and the deepest blacks. BIG PAD also delivers 1920 (H) x 1080 (V) pixel full-HD resolution. This means that everything from fine text to intricate graphics is stunningly crisp and clear. The full-HD display is complemented by an anti-reflective coating. This ensures the screens can be comfortably viewed in brightly lit areas and from a wide angle. So, wherever your students are sitting, they'll always view razor-sharp content.

### Optional button panel

An optional button panel can be installed in the pen tray under your monitor. It has ten buttons that can be pre-programmed with applications or functions that you frequently use such as copy, paste, annotate, and zoom. The panel also includes two USB ports which can be used to connect peripherals including a keyboard and USB memory devices to tailor the screen to your preferred operating mode and make it convenient to access your content.



### User-friendly software

BIG PAD is fully compatible with Windows 7<sup>®</sup> supporting multi-touch functionality and the ink applications of Microsoft Office<sup>®</sup>\*<sup>3</sup>. When using the supplied pen software with Microsoft PowerPoint<sup>®</sup>, an additional toolbar appears on-screen. The toolbar enables you to advance slides forward and backward, operate ink tools and switch between your presentation and the whiteboard with just one button.



The touch functionality of the BIG PAD is also available for your Apple computer.\*<sup>4</sup>

### High reliability for long-term investment returns

BIG PAD displays are extremely robust, work continuously without fault and are highly efficient. The use of LED backlight technology cuts heat emissions so reducing power consumption in comparison to other systems. The LEDs have an average life span of 50,000 hours\*<sup>5</sup> to ensure long-term, trouble free operation. And as the displays require very low maintenance, operating costs are kept to a minimum.

TOUCH APPLICATION  
PAD PN-ZC01

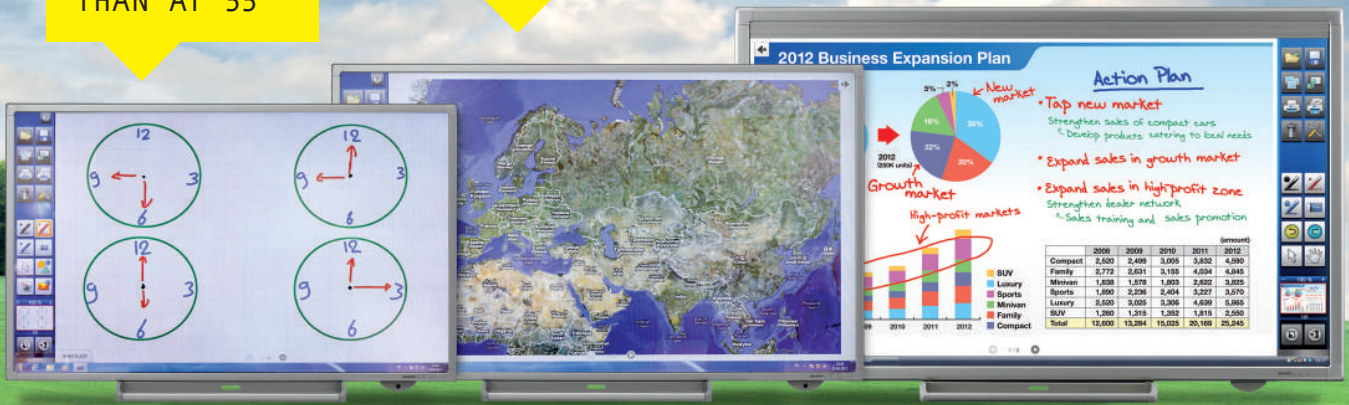
\*<sup>2</sup> UV<sup>2</sup>A stands for "Ultraviolet-induced Multi-domain Vertical Alignment," a photo-alignment technology that ensures uniform alignment of liquid crystal molecules in a certain direction.  
\*<sup>3</sup> The ability to directly save screen operations in Word and Excel files. \*<sup>4</sup> Mac OS 10.6 and later. \*<sup>5</sup> After 50,000 hours, the brightness reduces by up to 40%.

## SCREEN FORMAT

AT 60" YOUR  
WORKSPACE IS  
20% LARGER  
THAN AT 55"

AT 70" YOUR  
WORKSPACE IS  
30% LARGER  
THAN AT 60"

AT 80" YOUR  
WORKSPACE IS  
30% LARGER  
THAN AT 70"



# This is Why

Everyone needs to see your information clearly / **This is Why** Sharp BIG PAD is available in 60-inch (152 cm), 70-inch (177cm) and 80-inch (203 cm) sizes.

### Durable production and environmentally-advanced design

Sharp develops products that make our lives more enjoyable in many ways, from home entertainment products and household equipment to multifunction printing systems for the office. As an innovator of LCD technology and one of the world's largest producers, Sharp offers an exceptionally wide range of professional monitors and touch-screen solutions.

Sharp is a leading manufacturer of solar cells and panels and our aims for the environment are highly ambitious. In product innovation we strive toward products having a long service life and low energy requirements. We also take care that the products are easily recyclable. If necessary, we develop the required recycling technology, which we have done for LCD monitors.

A comprehensive program with guidelines and criteria concerning sustainable production applies to all our business operations. The use of natural resources, recycling of materials, safe production processes, compact packaging and transportation via sea containers (instead of air transport) are important issues.



### BIG PAD's green credentials

- 1 Extremely low energy consumption thanks to LED lighting
- 2 Optimal backlighting efficiency by means of Sharp UV<sup>2</sup>A technology
- 3 Long service lifespan
- 4 Responsible manufacturing methods
- 5 Recyclable and without the addition of harmful materials such as mercury

### Advanced LCD production facilities

Sharp's most prestigious project in the field of sustainable production is "Green Front" in the Japanese city of Sakai. This ultra-modern industrial complex covers an area of over 1 million m<sup>2</sup> and is designed for large-scale production of solar cells and large LCD panels. Sharp uses environmentally friendly materials for the production of these panels and ensures that the end products are also recyclable. The collective use of materials, machines and power ensures the highly efficient production of solar cells and LCD panels.

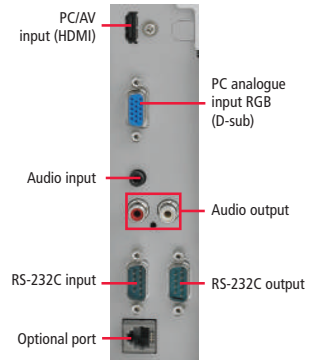
Moreover, the most important suppliers are also located in the industrial park. This prevents long transportation routes which reduces carbon dioxide emissions even further. A solar plant for the provision of power is built on the same site and it produces a substantial part of the factory's power supply.

# SPECIFICATIONS

Model Name	PN-L802B	PN-L702B	PN-L602B
Installation	Landscape		
LCD Panel	80-inch widescreen (203.2 cm diagonal) UV2A LCD	70-inch widescreen (176.6 cm diagonal) UV2A LCD	60-inch widescreen (152.5 cm diagonal) UV2A LCD
	Max. Resolution		
	1,920 x 1,080 pixels		
	Max. Display Colours (approx.)		
	1,064 million colours		
	Pixel Pitch (H x V)		
	0.923 x 0.923 mm		
	0.802 x 0.802 mm		
	0.692 x 0.692 mm		
	Max. Brightness (average)*1		
300 cd/m <sup>2</sup>			
380 cd/m <sup>2</sup>			
Contrast Ratio			
3,000 : 1			
Viewing Angle (H/V)			
160°/160° (CR ≥ 10)			
Active Screen Area (W x H) (approx.)			
1,771.2 x 996.3 mm (69 3/4" x 39 1/4")			
1,538.9 x 865.6 mm (60 3/16" x 34 1/16")			
1,329.1 x 747.6 mm (52 3/16" x 29 1/16")			
Response Time			
6 ms (gray to gray, avg.)			
Backlight			
White LED, full array			
White LED, edge lit			
Touchscreen	Touch Technology	Optical imaging method	Infrared blocking detection method
	PC Connection Port	USB (1.1 standard) x 1	
	Power Supply	PC through USB port	
	Driver	OS: Windows® XP, Windows Vista®, Windows® 7	
	Protection Glass Thickness*2	Approx. 3.4 mm	Approx. 3.0 mm
Touch Pen	Communication	Ultrasonic communication method	
	Button	2 function buttons	
Computer Input	Video	Analogue RGB (0.7 Vp-p) [75Ω], Digital (conforms to DVI 1.0 standards)	
	Synchronisation	Horizontal/vertical separation (TTL: positive/negative), Sync on green, Composite sync (TTL: positive/negative)	
	Plug & Play	VESA DDC2B	
	Power Management	VESA DPMS, DVI DMPM	
Video Colour System	With Optional PN-ZB01	NTSC (3.58 MHz, 4.43 MHz), PAL, PAL60, SECAM	
Input Terminals*3	Standard	PC analogue: Mini D-sub 15-pin x 1, HDMI x 1*4, 3.5 mm-diameter mini stereo jack x 1, RS-232C D-sub 9-pin x 1	
	With Optional PN-ZB01	PC digital: DVI-D 24-pin x 1*4, PC analogue: BNC x 1*5*6, Video: BNC x 1, S-Video x 1, Component video: BNC (Y, Cb/Pb, Cr/P) x 1*5, Audio: RCA pin (L/R) x 2	
Output Terminals	Standard	Audio: RCA pin (L/R) x 1, RS-232C D-sub 9-pin x 1	
	With Optional PN-ZB01	PC digital: DVI-D 24-pin x 1*4	
Input/Output Terminals	With Optional PN-ZB01	LAN port	
Speaker Output	Built-in	7 W + 7 W	
	External	7 W + 7 W (6Ω)*7	
Power Supply	100V – 240V AC, 50/60 Hz		
Power Consumption	260 W	240 W	170 W
Environmental Conditions	Operating Temperature	5°C to 35°C	
	Operating Humidity	20% to 80% RH (no condensation)	
Dimensions (W x D x H) (approx.) (display only)	1,880 x 135 x 1,157 mm (74" x 5 3/16" x 45 7/16")	1,648 x 116 x 982 mm (64 7/8" x 4 9/16" x 38 11/16")	1,440 x 101 x 855 mm (56 11/16" x 4" x 33 11/16")
Weight (not including PN-ZB01) (approx.)	102 kg (224.9 lbs)	70 kg (154.3 lbs)	54 kg (119.0 lbs)
Main Accessories	Touch pen, touch pen battery (AAA size), pen tips (for touch pen) x 2, eraser, pen tray, power cord, remote control unit, batteries (AA size x 2), CD-ROM, set-up manual, terminal label, Sharp logo cover sticker, cable clamp x 3 (2 for PN-L702B), USB cable, tray mounting fittings x 2, tray mounting screws x 6		

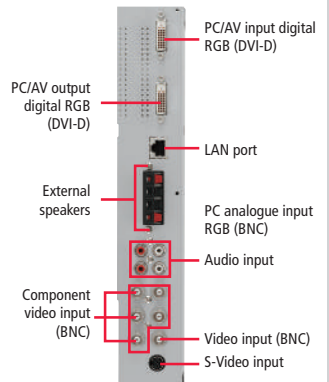
## INPUT/OUTPUT TERMINALS

### Standard



### Option

#### PN-ZB01 Interface Expansion Board



### Options

#### PN-ZB01: Interface Expansion Board

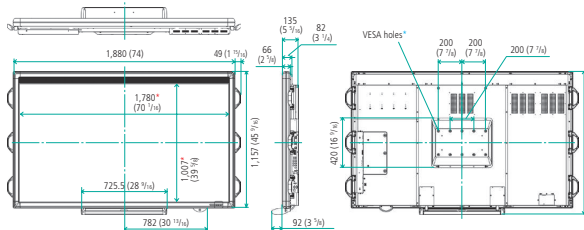
#### PN-ZC01: Touch Application Pad

A range of brackets and stands are available to suit your installation requirements. Please consult your local Sharp dealer or representative for availability and further details.

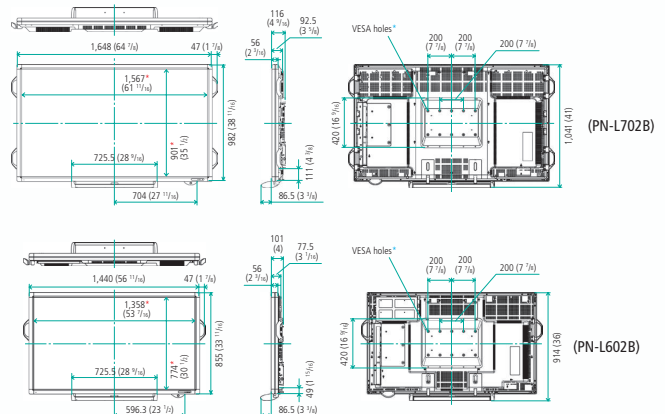
\*1 Brightness will depend on input mode and other picture settings. Brightness level will decrease over time. Due to the nature of the equipment, it is not possible to precisely maintain a constant level of brightness. \*2 Including AR coating on both sides. \*3 Use a commercially available connection cable for PC and other video connections. \*4 HDCP compatible. For both PC and AV components. \*5 The analogue and component BNC terminals are switchable. Use the menu to select. \*6 Does not support plug & play. \*7 Requires optional PN-ZB01.

## DIMENSIONS

(PN-L802B)



Units: mm (inch)  
\* Screen dimensions  
\* To use the VESA-standard mounting bracket, use M6 screws that are 8 to 10 mm plus the thickness of the bracket.



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