



# PN-80TC3A

## BIG PAD Pro Interactive Display Solution

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**SHARP**  
Be Original.

# BIG PAD makes meetings come alive.

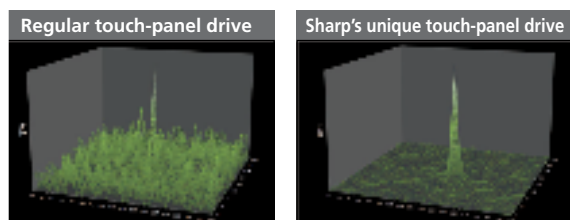
Enhance productivity and create a great Pen-on-Paper user experience with BIG PAD.



Pen-on-Paper

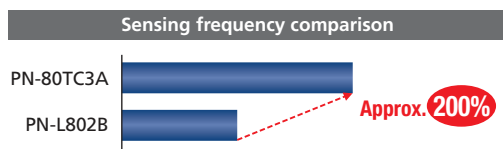
The 'Pen-on-Paper' natural user experience makes interactive activities more lively and productive. Users can write on the monitor with the SHARP pen which has been created to give a realistic writing experience; it really is as though you're writing with a real pen and paper. In overlay mode, users can write on-screen annotations directly on to photos, videos, PDFs and Office files. The text and graphics can then be easily stored via a USB memory card or shared directly via email.

## Projected Capacitive Touch Technology



Large amount of noise

Reduced noise



Not only does our BIG PAD Pro feature 1920 x 1080 Full-HD resolution, high brightness 300cd/m<sup>2</sup> and 4000:1 contrast ratio but our Projected Capacitive (P-CAP) touch technology allows ultra-precise multiple touch inputs to be detected through X,Y conductive grids etched onto layers of the display.

Employing Sharp's original capacitive touch technology - which achieves high sensitivity and precision by reducing the noise level to one-eighth that of conventional models - the PN-80TC3A uses a unique 220Hz sampling algorithm to eliminate unwanted noise and deliver a clear, precise and reliable onscreen touch signal.

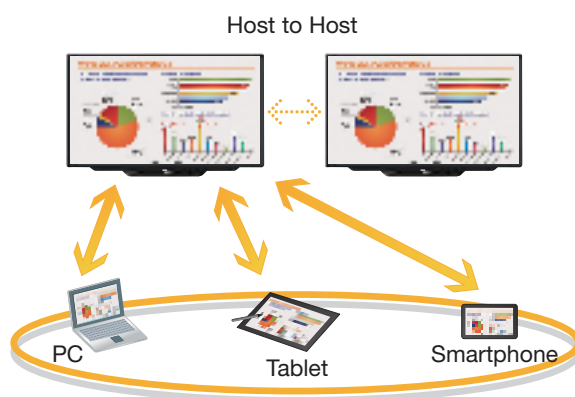
## Unleashed Creativity

The PN-80TC3A energises meetings by helping people share their ideas quickly and clearly - not just by writing on the board with SHARP's Pen Software but by using BIG PAD's innovative SHARP Display Connect software to interact through tablets and other mobile devices.

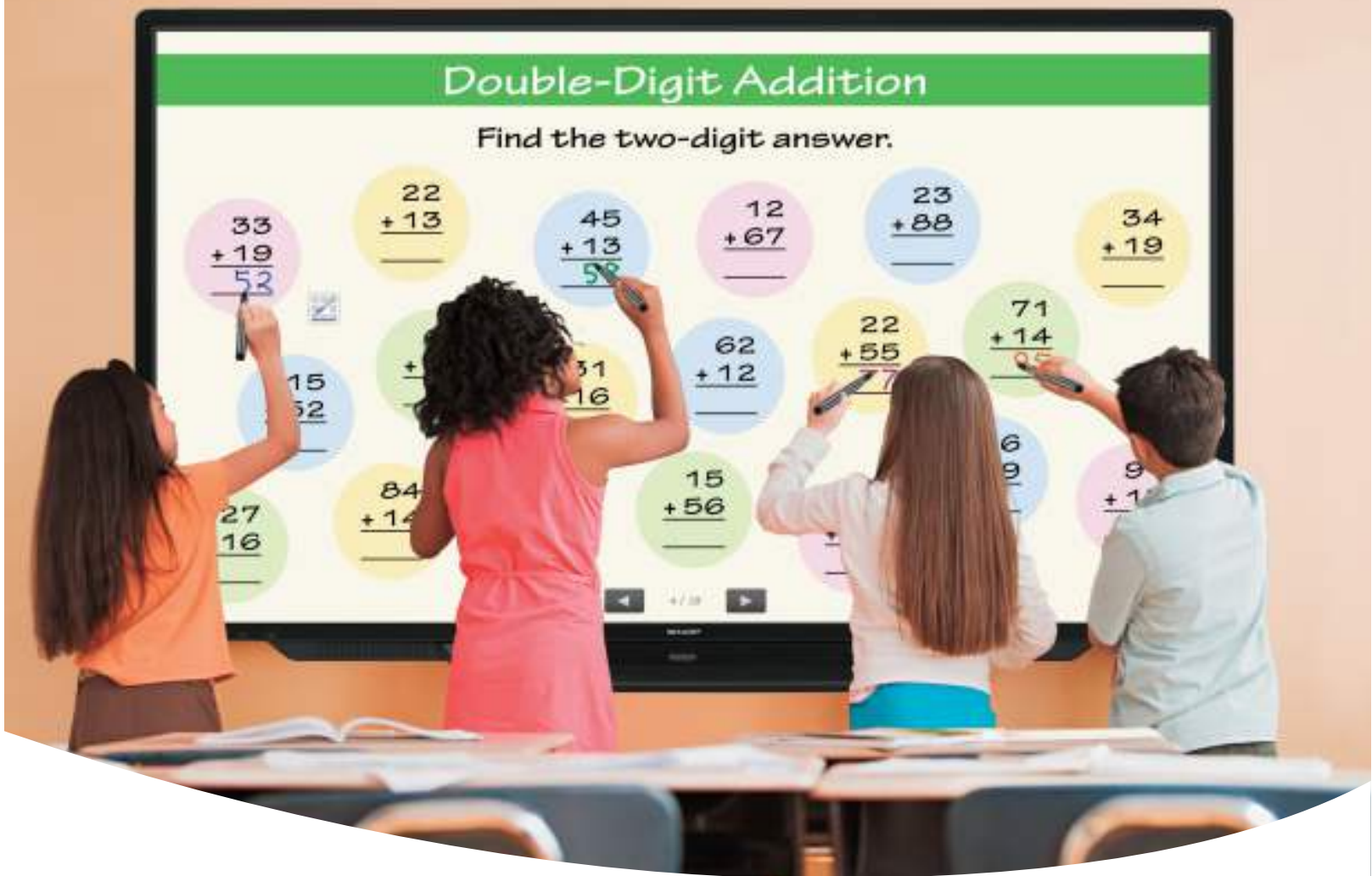
The Bring Your Own Device (BYOD) functionality unleashes team creativity by letting people join in using their favourite technology. Up to 50<sup>\*1</sup> people can share on-screen content; contribute ideas and information; control the display; transfer files, and save images from the BIG PAD, adding their own annotations, all at the same time.

Plus, team members can transfer files between their mobile devices. SHARP Display Connect can also connect two BIG PAD's host-to-host across the network for effortless collaboration between teams in different offices.

## SHARP Display Connect for BYOD



<sup>\*1</sup> The number of connectable mobile devices depends on the host OS and the accompanying Windows® End-User License Agreement: Windows® 7: Max. 20; Windows® 8/8.1: Connecting 26 or more mobile devices requires at least two LAN access points.



### Acclaimed and Intuitive SHARP Pen Software

Using a supplied touch pen, you can easily launch and display the SHARP Pen Software user interface – a menu comprising smartly arranged icons that provide easy access to pen settings and functions.

In addition to handwriting and shape recognition, in overlay mode you can write onscreen annotations directly onto photos, videos, PDFs and Microsoft Office documents, such as Excel and PowerPoint.

Menus can be browsed easily and are displayed in a floating format that allows them to be moved to anywhere on the screen.

### SHARP Pen Software Interface







# Teams are more productive with BIG PAD.

Intuitive tools to support closer collaboration.

## Productivity in Action

SHARP Pen software leverages the precision of our P-CAP touch technology to create an easy and intuitive whiteboard experience. Writing on Excel, Word and PowerPoint files is both fluid and natural, and our powerful handwriting recognition feature converts freehand notes into standardised text for easy reading, and that's just the start.

SHARP Pen software makes presentations far more dynamic, with a handy toolbar for rapid navigation and controlling the size and colour of the ink, as well as the pressure sensitivity. What's more, it has a powerful Multi-board capability which can link up to three BIG PAD Pro's to display sequential pages – the ultimate tool for communicating complex information, for example roadmaps, excel sheets and financial ledgers.



Easily accessible  
USB Port

For maximum productivity, the PN-80TC3A comes with an easily accessible front-mounted USB port, an anti-glare, anti-reflective screen for comfortable viewing, and the ability to connect to a Sharp MFP for printing and scanning.

All this, combined with 24/7 durability, makes the BIG PAD Pro ideal even for the most demanding of mission-critical control centres and operations rooms.

Working on something complex? No problem! Our unique SHARP Touch Viewing software takes the headache away from working with numerous files having different file types, through a touch-operated on-screen interface that lets you keep your project's office files, videos and web pages in one easy-to-manage location.

And thanks to the PN-80TC3A's open architecture, you can work with other applications and 3<sup>rd</sup> party hardware just as easily. There's no restriction and no fuss – just fingertip control of every piece of information that you need to stimulate creativity and winning ideas.

Built for sharing, BIG PAD Pro recognises as many as ten simultaneous touches on its 80" display, and up to four people can write or draw on the screen at the same time with fingers or, for total precision, our fine 3.5mm tipped touch pen.

# BIG PAD gives you a clear advantage.

Providing visibility and helping you make the right decision, with your information.

## Effective Decision-Making

Everything about the PN-80TC3A is designed to help you manage, communicate and evaluate information for effective fact-based decision-making.

Our best-in-class P-CAP touch technology delivers exceptional accuracy when writing on the screen and displays your information clearly without showing any accidental touches and 'noise' that is associated with cheaper brands. Plus, we use our proprietary UV<sup>2</sup>A LCD technology which delivers deeper blacks and brighter whites for exceptional clarity and visual comfort.



## Web Camera Attachment Points

Other features which remove distractions to promote truly effective decision making include a thin light design with a fully flat screen, edge to edge glass with seamless bezel, built-in speakers for clear and rich audio and an optional webcam\*<sup>2</sup> can be mounted in seven positions for easy web-conferencing.

\*<sup>2</sup> The camera mount cannot be attached in the bottom-centre position without removing the tray mount fitting.



# Teams are more productive with BIG PAD.

Intuitive tools to support closer collaboration.



## Multi Board Function

Sharp's standard Multi Board Function enables up to three PN-80TC3A units to be connected and used to create an extended interactive touch surface for smooth single, multi-touch usage<sup>\*3</sup>, allowing meeting participants a better grasp of the overall flow or overview of a data rich presentation.

## Advanced Multi-Board Driver (Option) for BIG PAD Pro

Our Advanced Multi-Board Driver optional solution allows an existing standard Multi-Board setup of either two or three BIG PAD Pros to fully take advantage of multi-user, multi-touch software applications. With a fully interactive display wall that's up to 5.3 metres long, the Advanced Multi-Board Driver option offers an easy to setup and easy to use interactive performance that's the only one of its kind available today.

## The Ultimate Interactive Flat Panel Display

In applications where a large amount of essential information needs to be conveyed to a large or demanding audience - with style and clarity - only a BIG PAD Multi-Board solution will do.

## BIG PAD has all the right accessories for you.

### Peerless Stand Solution for Sharp (Option)

The Peerless Mobile Stand offers the most complete flexible mobile solution for Sharp's Interactive Display. Designed exclusively for Sharp's IFPDs the durable 4" (102mm) swivel wheels provide easy mobility over various floor surfaces and through doorways, allowing you to move the BIG PAD into different rooms and environments as needed. Once in place the two locking wheels ensure complete stability. The Peerless Stand can also be adjusted to suit your desired tilt and height.



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### Peerless Wall Mount (Option)

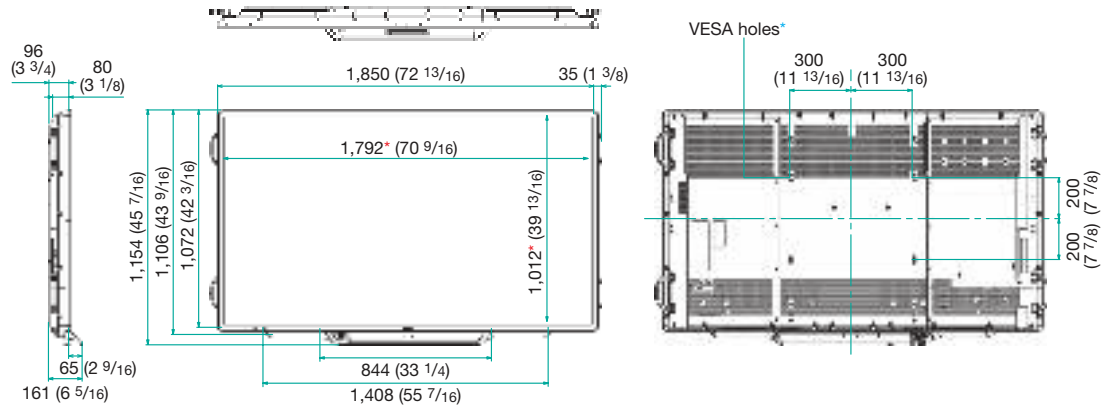
The Peerless Universal Flat Wall Mount series offers the most versatile installation features and mounting options. Horizontal and vertical adjustment abilities allow for post installation levelling and side-to-side positioning, making it easier than ever to find the perfect display position. The low-profile design offers the sleek, aesthetically pleasing look to fit into any décor.



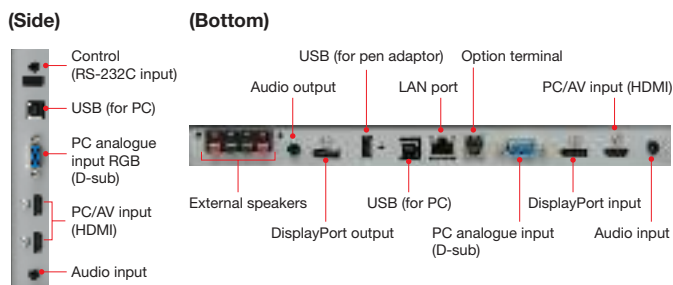
L20PNWALL90EU

<sup>\*3</sup> Requires a compatible version of Sharp Pen Software. Check with your local Sharp authorised dealer/representative for details. Only one PN-80TC3A unit can be touch operated at a time with standard Multi-Board Function.

## Dimensions



## Input/Output Terminals



## Additional

### ■ PN-ZL03A : Touch Pen





# Specifications

## General

Installation	Landscape / Portrait
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## LCD Panel

80-inch widescreen (203.2 cm diagonal) UV <sup>2</sup> A <sup>1</sup> LCD	
Max. Resolution	1,920 x 1,080 pixels
Max. Display Colours (approx.)	1.06 billion colours
Pixel Pitch (H x V)	0.923 x 0.923 mm
Max. Brightness (average) <sup>*2</sup>	300 cd/m <sup>2</sup>
Contrast Ratio	4,000 : 1
Viewing Angle (H/V)	176°/176° (CR>10)
Active Screen Area (W x H) (approx.)	1,771.2 x 996.3 mm (69 3/4" x 39 1/4")
Response Time	4 ms (grey to grey, avg.)
Backlight	LED, edge lit

## Touchscreen

Touch Technology	Projected Capacitive (P-CAP)
PC Connection Port	USB 2.0 (type B) x 2
Power Supply	Supplied from main unit
Multi Touch	10 points
Protection Glass	Thickness: Approx. 3.8 mm <sup>*3</sup> Shock resistance: 130 cm <sup>*4</sup>

## Touch pen

Function Button	Yes
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## Computer Input

Video	Analogue RGB (0.7 Vp-p) [75Ω], HDMI, DisplayPort 1.1a
Synchronisation	Horizontal/vertical separation (TTL: positive/negative), Sync on green (D-sub 15-pin only), Composite sync (TTL: positive/negative)
Plug & Play	VESA DDC2B
Power Management	VESA DPMS
Video Colour System	NTSC (3.58 MHz) / NTSC (4.43 MHz) / PAL / PAL60 / SECAM

Input Terminals <sup>5</sup>	PC analogue: Mini D-sub 15-pin x 2 <sup>6</sup> , HDMI (HDCP and 1080p compatible, PC/AV signal compatible) x 3, 3.5 mm-diameter mini stereo jack x 2, Video x 1 <sup>6</sup> , Component video x 1 <sup>6</sup> , DisplayPort (HDCP compatible, PC signal compatible) x 1, RS-232C x 1 <sup>7*</sup>
Output Terminals <sup>5</sup>	3.5 mm-diameter mini stereo jack x 1, DisplayPort (HDCP compatible) x 1
Input/Output Terminals <sup>4</sup>	LAN port (10Base-T/100Base-TX) x 1
Speaker Output	
Built-in	10 W + 10 W
External	10 W + 10 W (6Ω)
Mounting	VESA (4 points), 600 x 400 mm pitch, M6 screw
Power Supply	100V – 240V AC, 50/60 Hz
Power Consumption	280 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.)	1,850 x 96 x 1,072 mm (72 13/16" x 3 3/4" x 42 3/16")
Weight (approx.)	77 kg (169.8 lbs)
Main Accessories	AC power cord, remote control unit, battery (AA size) x 2, set-up manual, blank sticker, cable clamps x 7, camera mount, USB cable (3.0 m), USB extension cable (1.8 m), eraser, pen tray, touch pen (with function button) x 2, pen adaptor, touch pen battery (AAA size) x 2, SHARP Display Connect, RS-232C conversion cable (3.5 mm-diameter mini stereo jack) x 1

## Windows® PC System Requirements

PC	PC/AT compatible machine with USB 2.0 port and screen resolution of 1,920 x 1,080 (CD-ROM drive required for installation)
CPU	Intel® Celeron® 1.6GHz, or AMD Sempron™ 1.6GHz or higher (Intel® Core™ 2 Duo 2.8GHz, or AMD Athlon™ II x 2 2.8 GHz or higher recommended)
OS	Windows® 7 (32-bit/64-bit), Windows® 8 (32-bit/64-bit), Windows® 8.1 (32-bit/64-bit)
Memory	2GB or more
Hard disk	200MB or more free space (additional space required for saving data)



<sup>\*1</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. <sup>\*2</sup> Brightness depends on input mode and other picture settings. Brightness level will decrease slightly over the lifetime of the product. Due to the physical limitations of the equipment, it is not possible to maintain a precisely constant level of brightness. <sup>\*3</sup> Including AG film on the front and AR film on the back. <sup>\*4</sup> Approximate distance at which the glass panel can withstand the impact of a 500-gram iron ball dropped on its center. <sup>\*5</sup> Use a commercially available connection cable for PC and other video connections. <sup>\*6</sup> Analogue PC, video, and component video are switchable (on bottom interface); use the menu to select. Video and component video connections require conversion cable via mini D-sub 15-pin jack. <sup>\*7</sup> Requires the bundled RS-232C conversion cable. <sup>\*8</sup> Only command control. Windows is either a registered trademark or trademark of Microsoft Corporation in the US and/or other countries. The terms HDMI and High-Definition Multimedia Interface and the HDMI logo are trademarks or registered trademarks of HDMI Licensing, LLC in the US and other countries. Intel, Intel Core, and Celeron are trademarks of Intel Corporation in the US and/or other countries. Sempron and Athlon are trademarks of Advanced Micro Devices, Inc. All other brand names and product names may be trademarks or registered trademarks of their respective owners. Design and specifications are subject to change without prior notice. © Sharp Corporation February 2018. Ref: 18914 Sharp BIG PAD Pro PN-80TC3A.

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