

# SHARP

PN-40TC 1  
TOUCHSCREEN LCD MONITOR

## A Smart New Partner in Innovation



## INTELLIGENT TOUCH BOARD

# Maximise the Value of Small Meetings to Achieve a Big Change

Sharp's INTELLIGENT TOUCH BOARD series makes meetings and communications smoother and more productive. Reinforcing the line-up is the 40-inch PN-40TC1, which offers a fresh approach to boosting the dynamism of business and educational organisations. It's ideal for meetings of two to six people held in small spaces—the so-called “huddle spaces” where a high proportion of meetings take place in the modern world. Making the most of huddle meetings can transform communications and accelerate business to a whole new level.

## Get the Most out of Your Face-to-Face Interactions

*There are times in every day when you need to have some quick face time with a few of your colleagues or clients. It could be for a project update, a brainstorming session, or a business meeting. Every one of these impromptu gatherings can be transformed into a genuinely productive and creative session. All it takes is a little help from the PN-40TC1.*



### Huddle Spaces

With the PN-40TC1, everyone can engage meaningfully in such small-group meetings by sharing onscreen information. Intuitive touchscreen operation, whether with a finger or pen, facilitates active collaborations and a lively exchange of opinions. And with the optional wireless board, you can also have BYOD meetings. Speedy, productive collaborations become a reality.



### Meeting Booths

Set up a PN-40TC1 in your company's visitor meeting space to transform your interactions with clients and other visitors. Touchscreen functionality helps to bring greater focus and productivity to your interactions. And the PN-40TC1 never has to sit idly by. When not being used in a meeting, it can be used as appealing touchscreen signage displaying corporate ads, notices, and other information.



### Learning Areas

In both business and educational settings, the PN-40TC1 enhances collaborations and group learning sessions. SHARP Pen Software works with the PN-40TC1 in both landscape and portrait orientations. This expands the product's range of usage to cover a variety of settings. For example, the PN-40TC1 can work as a sophisticated bulletin board or flip chart. You can import data to display, write on it freely by hand, and save your handwritten notes digitally for later reuse.



## Plug into Convenience and Collaboration

As well as coming standard-equipped with a range of interface terminals such as HDMI™ and DisplayPort™ 1.2, the PN-40TC1 includes an expansion slot compatible with the Intel® Mini Open Pluggable Specification (Mini OPS). This slot supports the addition of an optional wireless or HDBaseT™ receiver board. By making more effective use of the PN-40TC1, you get greater convenience and an expanded range of functionality.

### Wireless Board

This optional Wireless Board allows up to 10 devices—including Mac® or Windows® computers, smartphones, and tablets—to connect to the PN-40TC1 simultaneously without any cable hassles. You can display the content of one device on the whole screen, or you can display the content from up to four devices in a 2 x 2 split screen. Enabling such wireless collaboration is a great way to enhance productivity in work or educational environments.



An optional board can slide into the slot on the back of the monitor.

### HDBaseT Receiver Board

The optional HDBaseT Receiver Board can receive HDMI video/audio and control signals sent via a single LAN cable\*1 from up to 100 metres away. It also allows you to remotely operate a PC from a USB device connected to the board\*2.

\*1 Category 6 or higher shielded cable (available commercially)

\*2 Requires an HDBaseT 2.0-compatible transmitter (available commercially). Not all USB devices are supported.

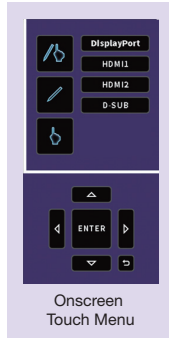
# Effective and Interactive Communications

## 40-Inch Full HD Touchscreen LCD

The PN-40TC1 employs a full-flat design with 10-point multi-touch functionality. It provides a smooth, quick response for writing and touch gestures, while delivering full HD (1,920 × 1,080-pixel) resolution. Sized at 40 inches, the PN-40TC1 is just right for small meeting spaces.

## Responsive and Intuitive Operation

Thanks to Sharp's original **capacitive touch technology**, the PN-40TC1 offers extremely precise and smooth operation. The bundled **2 mm-tip touch pen** facilitates communication by supporting smooth and accurate onscreen writing of fine text and lines. An onscreen **touch menu** lets you easily switch inputs, change between touch and pen modes, and access other frequently used functions. The screen surface uses **anti-glare glass**, which resists fingerprints, and also reduces glare and reflections.



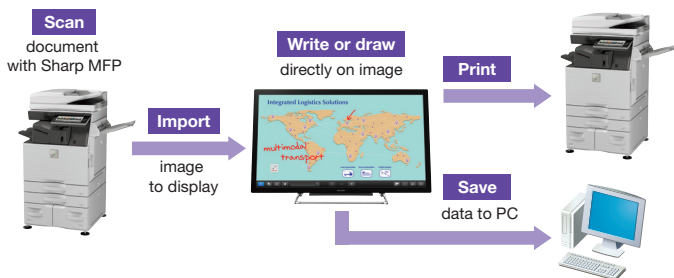
## Versatile Orientation

The PN-40TC1 can be installed in a landscape, portrait, or horizontal (face-up) orientation. This flexibility means you can use it for a wide variety of applications in business, educational, and public settings.

Note: An included desktop stand is provided for landscape set-up.

## MFP Connectivity

Scanned documents can be directly imported to SHARP Pen Software from a compatible Sharp MFP. Onscreen image data, including handwriting, can be sent to a PC for storage or to an MFP for printing.



## User-Friendly SHARP Pen Software

The easy-to-launch SHARP Pen Software user interface incorporates a menu comprising smartly arranged icons that provide easy access to pen settings and other useful functions. In overlay mode, you can write onscreen annotations or graphics directly onto photos, videos, PDFs, and common Microsoft® files. Text and graphics written on the PN-40TC1 can be stored in USB memory\* or sent directly via e-mail to selected recipients. The software links smoothly with the PowerPoint® application, enabling you to perform various control operations during slideshow presentations. Support for a portrait set-up—newly introduced with this model—gives you more flexibility for use in conference rooms and classrooms.

\* Saved as PDF, BMP, JPEG, PNG, or SWSX files.



## SHARP Display Connect

This software supports multifaceted wireless communication. Content on the PN-40TC1 screen, including handwritten notes, can be shared simultaneously with up to 50 devices. Also, files can be exchanged between devices connected to the PN-40TC1.

Note: Access the downloader on the bundled CD-ROM to install the software.

## Crestron Connected™

Compatibility with Crestron Connected software enables you to remotely control and manage each monitor via a LAN network.

## Other Key Features

- Mount for **web camera**
- **Bundled stand** for desktop set-up (landscape orientation)
- **16-hour** daily operation

## Intuitive Touch Signage

*With its 10-point multi-touch functionality and high-sensitivity capacitive touch technology, the PN-40TC1 shines in a variety of roles and locations. Whether installed face-up or in a landscape or portrait orientation, it excels as an interactive information interface. Not only is it a powerful meeting tool, it can also be used to engage and inform people in stores, museums, showrooms, and public spaces. The PN-40TC1's versatile touch signage capabilities make it a true value-adder.*



## SHARP Touch Viewing Software

Original Sharp software lets you manipulate a variety of different files on the screen without actually opening the respective applications. The files\* are displayed onscreen as "sheets," which can be stored in onscreen virtual "drawers." This software brings convenience and originality to business meetings, in-store installations, and more.

\* Viewable files: Microsoft Office (Excel®, Word, PowerPoint), PDF, JPEG/PNG/BMP/TIFF, and WMV/AVI/MP4/FLV.

Note: Access the downloader on the bundled CD-ROM to install the software. In the case of a face-up installation, please consult with your local authorised Sharp dealer or representative.

## SHARP Digital Signage Software (option)

This software provides a wide range of signage support for content creation, scheduling, distribution, and display management. Sharp offers an array of solution packages to match a variety of signage needs, from a single standalone display to a network of up to 1,000 monitors.

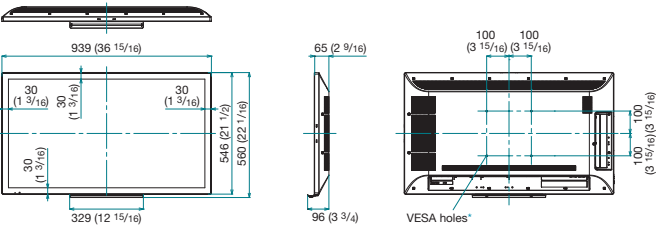
|                     |         |                        |         |
|---------------------|---------|------------------------|---------|
| Stand-Alone Version | PN-SS01 | Pro Version            | PN-SS05 |
| Network Version     | PN-SS02 | Pro Web Server Version | PN-SW05 |
|                     |         | Viewer Version         | PN-SV01 |

Specifications

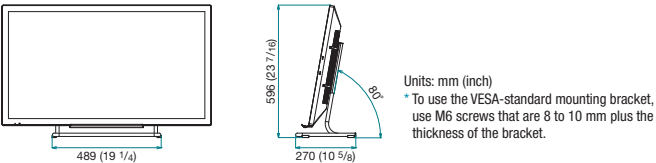
| Model Name                                      |                                      | PN-40TC1                                                                                                                                                                                                                                                  |
|-------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Installation                                    |                                      | Landscape / Portrait / Face-up                                                                                                                                                                                                                            |
| LCD Panel                                       |                                      | 40-inch-class widescreen (39 1/2-inch [100.33 cm] diagonal) TFT LCD                                                                                                                                                                                       |
|                                                 | Max. Resolution                      | 1,920 x 1,080 pixels                                                                                                                                                                                                                                      |
|                                                 | Max. Display Colours (approx.)       | 16.77 million colours                                                                                                                                                                                                                                     |
|                                                 | Pixel Pitch (H x V)                  | 0.45735 x 0.4494 mm                                                                                                                                                                                                                                       |
|                                                 | Max. Brightness (average)*1          | 300 cd/m²                                                                                                                                                                                                                                                 |
|                                                 | Contrast Ratio                       | 5,000 : 1                                                                                                                                                                                                                                                 |
|                                                 | Viewing Angle (H/V)                  | 178°/178° (CR ≥ 10)                                                                                                                                                                                                                                       |
|                                                 | Active Screen Area (W x H) (approx.) | 878.1 x 485.3 mm (34 9/16" x 19 3/32")                                                                                                                                                                                                                    |
|                                                 | Response Time                        | 9.5 ms (grey to grey, avg.)                                                                                                                                                                                                                               |
|                                                 | Backlight                            | LED, edge lit                                                                                                                                                                                                                                             |
| Touchscreen                                     | Touch Technology                     | Capacitive touch                                                                                                                                                                                                                                          |
|                                                 | PC Connection Port                   | USB (2.0 compliant) (Type B) x 1                                                                                                                                                                                                                          |
|                                                 | Power Supply                         | Supplied from main unit                                                                                                                                                                                                                                   |
|                                                 | Multi Touch                          | 10 points                                                                                                                                                                                                                                                 |
|                                                 | Protection Glass                     | Shock resistance: 130 cm*2                                                                                                                                                                                                                                |
| Computer Input                                  | Video                                | Analogue RGB (0.7 Vp-p) [75Ω], HDMI, DisplayPort                                                                                                                                                                                                          |
|                                                 | Synchronisation                      | Horizontal/vertical separation (TTL: positive/negative)                                                                                                                                                                                                   |
|                                                 | Plug & Play                          | VESA DDC2B                                                                                                                                                                                                                                                |
|                                                 | Power Management                     | VESA DPMS                                                                                                                                                                                                                                                 |
| Input Terminals*3                               |                                      | PC analogue: Mini D-sub 15-pin x 1, HDMI x 2 (HDCP and 1080p compatible, PC/AV signal compatible), DisplayPort (HDCP compatible, PC signal compatible) x 1, 3.5 mm-diameter mini stereo jack x 1, RS-232C x 1                                             |
| Output Terminals*3                              |                                      | 3.5 mm-diameter mini stereo jack x 1                                                                                                                                                                                                                      |
| Input/Output Terminals*3                        |                                      | LAN port (10Base-T/100Base-TX) x 1                                                                                                                                                                                                                        |
| USB Hub Function                                |                                      | USB 2.0 (Type A) x 2                                                                                                                                                                                                                                      |
| Speaker Output                                  |                                      | 10 W + 10 W                                                                                                                                                                                                                                               |
| Mounting                                        |                                      | VESA (4 points), 200 x 200 mm, M6 screw                                                                                                                                                                                                                   |
| Power Supply                                    |                                      | 100V – 240V AC, 50/60 Hz*4                                                                                                                                                                                                                                |
| Power Consumption                               |                                      | 89W                                                                                                                                                                                                                                                       |
| Environmental Conditions                        | Operating Temperature*5              | 5°C to 35°C                                                                                                                                                                                                                                               |
|                                                 | Operating Humidity                   | 20% to 80% RH (no condensation)                                                                                                                                                                                                                           |
| Dimensions (W x D x H) (approx.) (display only) |                                      | 939 x 65 x 546 mm (36 15/16" x 2 9/16" x 21 1/2")                                                                                                                                                                                                         |
| Weight (approx.)                                |                                      | 17.5 kg (38.6 lbs)                                                                                                                                                                                                                                        |
| Main Accessories                                |                                      | AC power cord, remote control unit, battery (AAA size) x 2, set-up manual, cable clamp x 3, camera mount, USB cable*6, logo sticker, pen tray, touch pen, CD-ROM, portrait installation operation label, desktop stand, SHARP Display Connect license x 1 |

\*1 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. 300 cd/m<sup>2</sup> is the brightness of the LCD panel component. The brightness of the product itself may be less than this. \*2 Approximate distance at which the glass panel can withstand the impact of a 500-gram iron ball dropped on its centre. \*3 Use a commercially available connection cable for PC and other video connections. \*4 The AC power cord is an inlet type. The cable is bundled (3 pins). \*5 For face-up installation is 5°C to 30°C. \*6 Please use only this USB cable and no other. If connected via a USB hub, a PC may not recognise the PN-40TC1 correctly and operation may be unstable.

Dimensions



Placement with desktop stand



| 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® 8.1 (32-bit/64-bit), Windows® 10 (32-bit/64-bit)                                                     |
| Memory              | 2GB or more                                                                                                                               |
| Hard disk           | 200MB or more free space (additional space required for data storage)                                                                     |

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Input/Output Terminals

**[standard]**

**(Side)**

- DisplayPort input
- PC/AV input (HDMI)
- PC/AV input (HDMI)

**(Bottom)**

- Touch panel
- Audio input
- RS-232C input
- USB
- Audio output
- LAN port
- PC analogue input (D-sub)

**[option]**

**Wireless Board**

- USB (for wireless adapter)
- USB
- LAN port

**HDBaseT Receiver Board**

- LAN port
- USB
- HDBaseT

| Wireless Board                |                                                                                  | HDBaseT Receiver Board |                                                               |
|-------------------------------|----------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------|
| Maximum resolution            | 1,920 x 1,080 (30 Hz)                                                            | Supported standard     | HDBaseT 2.0                                                   |
| Wireless communication method | 2.4 GHz, IEEE802.11b/g/n 5 GHz, IEEE802.11a/n                                    | Maximum resolution     | 4,096 x 2,160 (30 Hz)                                         |
| Input/output terminals        | LAN x 1 (10Base-T/100Base-TX), USB x 1 (USB 2.0), Wireless adapter x 1 (USB 2.0) | Copy protection        | HDCP pass-through                                             |
| Power supply                  | From the monitor                                                                 | Transmission distance  | Up to 328 feet / 100 m                                        |
|                               |                                                                                  | Input/output terminals | HDBaseT x 1, LAN x 1 (10Base-T/100Base-TX), USB x 1 (USB 2.0) |
|                               |                                                                                  | Power supply           | From the monitor                                              |



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