

## Newline TRUTOUCH X7



Figure 1: Newline X7 touch display. Image courtesy of Newline Interactive.

### 1. What is it?

A collaborative touch screen, whiteboard, and video conferencing system with built-in Android operating system and Microsoft Windows compatible PC hardware.

### 2. How does it work?

The system contains both an Android operating system and a Microsoft Windows compatible computer. The Android interface can be used for whiteboard purposes, including annotation of files and presentations. Screen shots may be saved to USB or SD card memory.

By using the Windows PC side, users may conduct video and audio conferences in a variety of applications, such as Skype.

### 3. What are the key features?

During limited testing the Newline X7 proved reliable and responsive. The user interface is simple and well laid out.

By default, the system runs an Android-based interface which offers links to Windows-based applications through the Collaboration menu and a Whiteboard through the menu of the same name. In addition, a limited selection of Android apps may be downloaded from the manufacturer. Via an on-screen menu, the user may also switch to the built-in Windows PC. The Whiteboard mode may be used

for writing as well as annotation of other screen content, such as Power Point slides and Word documents, which can be loaded from an external drive. Screen shots of annotated slides or whiteboards may also be taken and saved to a USB key or SD card for distribution to participants. The Newline X7 contains two web cameras. The one at the top of the screen is set up for larger rooms while the one at the bottom is set up for a setting such as a small conference table.

The screen accepts various inputs from external sources and can thus be used to project to from a laptop or a wireless content streaming solution, such as a Mersive Solstice Pod which allows users to wirelessly stream content from their laptops and mobile devices.

The system is also compatible with various dedicated types of communications software, such as SmartPerform.

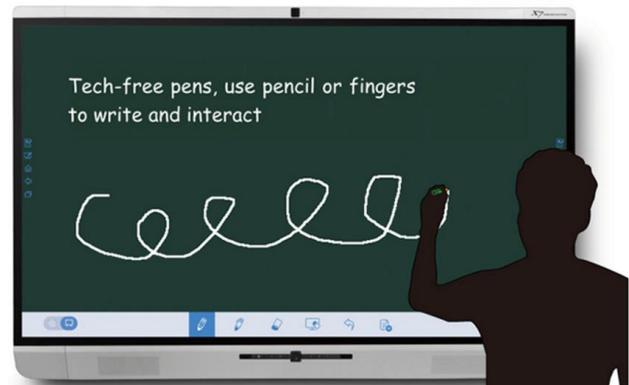


Figure 2: Whiteboard feature. Image courtesy of Newline Interactive.

### 4. What are the potential uses on the ISU campus?

The Newline X7 may be used in classrooms where a 70" screen is big enough for all students to see what is being displayed. It may also be useful in conference rooms and collaborative spaces. The whiteboard features that allows for saving screen shots could be very valuable in these settings.

### 5. What are the implications for teaching and learning?

The Newline X7 combines several functions into one device, namely presentation screen, whiteboard, and video and audio conference capabilities. The

user interface is fairly intuitive and the device responds quickly to inputs. Instructors and other users will likely need some training to confidently use all embedded features just like the device may need to be set up in advance to install the needed Android and Windows collaboration apps for users to access quickly and easily. As such, the device does not necessarily add new features to a room, compared to what could be installed as separate devices, but it is a more compact solution that may be more user friendly and easier to install.



Figure 3: Sample conference room installation. Image courtesy of Newline Interactive.

## 6. What are the downsides?

There are few downsides inherent to this product. The main issue is that the two embedded cameras cannot tilt up or down, which means that wall placement (height, screen tilt angle) is very important. During testing, it was also observed that the line that appears on the screen in whiteboard mode, when a user writes on it, trails somewhat behind the user's writing speed. This may affect some users more than others. It was also obvious during testing that the display screen is glossy and tends to reflect light sources in the room. This should be considered when the display is mounted. A slight downward tilt may help mitigate this issue. Finally, both cameras cannot be available in Windows at the same time. Users must switch between either the top or bottom camera from inside the internal operating system.

## 7. What are the key technical specs?

- Display size: 70"
- Resolution: 1920 x 1080
- Microphone array with 4 microphones with 24 foot pickup range, according to the manufacturer

- 2 cameras (top and bottom), 2 Mpixel each, 86 degree lens angle
- 10 simultaneous touch points in Windows, 5 in internal Android system
- Inputs: HDMI, VGA, USB (2.0 and 3.0), 3.5 mm audio
- Outputs: 3.5 mm Line Out, SPDIF, HDMI (video only)
- Wi-Fi antenna
- 1GB Ethernet RJ45 port
- Internal system: ARM Cortex A9 1.5GHz w. 2 GB RAM and 8 GB ROM.
- PC system: Intel Core i5 or i7 processor, Intel HD graphics 4600, 8 GB RAM, 128 GB SSD
- RS-232 control port
- Includes remote control

## 8. Where can I find out more?

Visit the Newline X7 page at <http://www.newline-interactive.com/s/en/2/product/TRUTOUCH-X-series-199148.html>.

The *Newline Interactive's X-Series Unified Collaboration System* video on YouTube also explains the capabilities of the X7 in less than two minutes

[https://www.youtube.com/watch?v=u\\_PmhAY4hg](https://www.youtube.com/watch?v=u_PmhAY4hg)

You may also contact Jacob E. Larsen ([jlarsen@iastate.edu](mailto:jlarsen@iastate.edu)) in IT Services to discuss how the *Newline TRUTOUCH X7* can be used in your classroom or conference room.

Additional [legal information](#).