



iBoard 9000 Series **User's Guide**

Welcome

Thank you for choosing iBoard Interactive Tools for Knowledge & Communication. Please read carefully, the user guide provided will help you set up your product for proper functioning and provide you with years of trouble free service. We trust you will be able to make the most of this product.

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About your Interactive Display Panel

Introduction

The iBoard 9065 sets a new precedent in interactive board technology. Maximizing content and information delivery for academic, corporate, and other professional and learning environments. The iBoard performs a myriad of functions using high performance technology; ranging from simple presentations to interactive presentations using touch inputs to

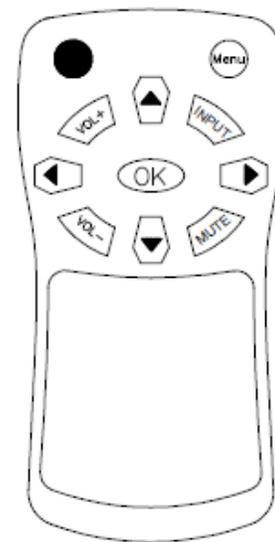
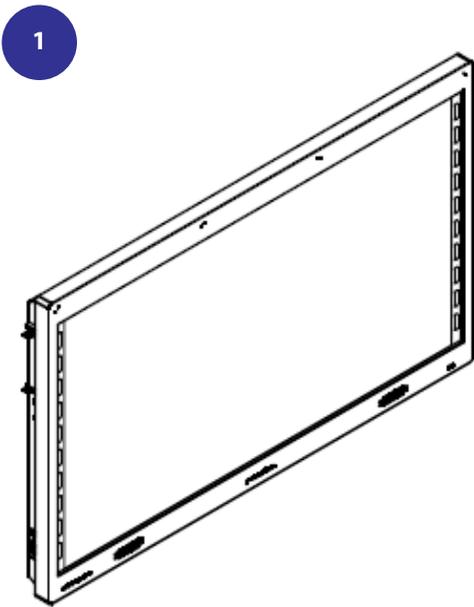
iBoard Features and Benefits:

- ➡ Premium class Full HD LED-LCD display creates stunning visuals in high quality for increased engagement.
- ➡ Anti-reflective glass eliminates unwanted reflections and glare, accommodating for observers situated at different angles and distances from the screen.
- ➡ Latest Intel developed technology permits efficient interconnection between digital video and audio systems, minimizing maintenance and upgrades.
- ➡ Multi-touch features enable recognition of different touch inputs on the screen, while the touch gestures function differentiates touch actions taken on the screen, such as: zoom, erase, rotate, flick, and others.
- ➡ Integrated multi-touch sensors system provide personalized solutions such as:
 - Using the multi-touch features on many programs without the need to use an input device such as a mouse or a keyboard.
 - Customizing touch actions on the screen to personalize them in a unique way.
- ➡ Open system compatibility allows it to run Microsoft Windows or various versions of Linux.

Listed Contents

Verify that the listed parts below are included when unpacking your iBoard:

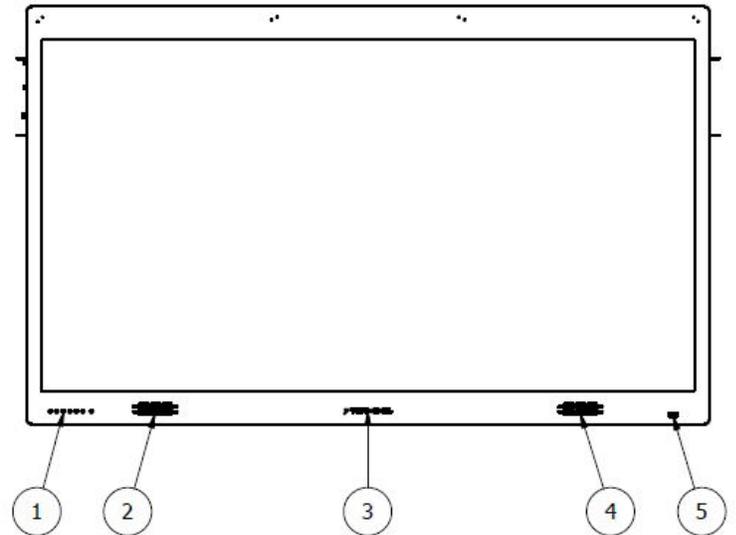
1. iBoard 9065
2. Remote Control
3. Power Cord
4. User's manuals



Interactive Display Components

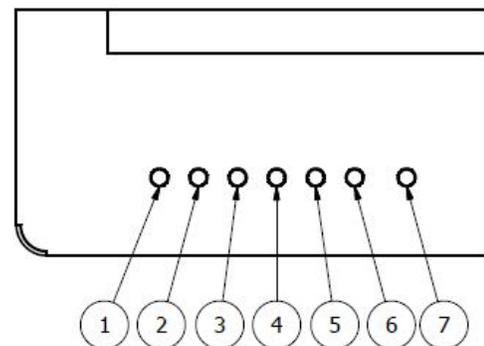
Front View

Number	Function
1	Front Control Panel
2	Left Speaker
3	LED Status Indicator
4	Right Speaker
5	IR Control Sensor



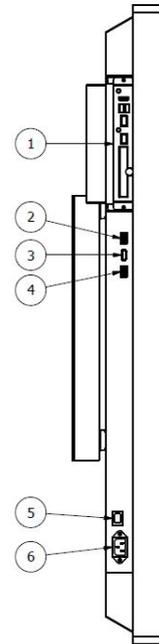
Front Control Panel

Number	Function
1	Power
2	Volume -
3	Volume +
4	Up Arrow
5	Input/Source
6	Down Arrow
7	Menu



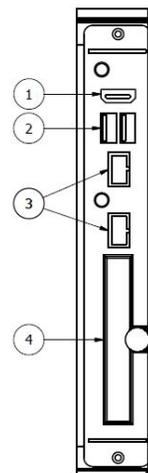
Side View

Number	Function
1	(OPS) Open Plugable System Computer
2	Firmware Upgrade USB Port
3	HDMI Port
4	USB 3.0 Ports
5	On/Off Switch
6	Power Outlet



OPS Computer

Number	Function
1	HDMI Port
2	USB 3.0 Ports
3	Ethernet Ports
4	2.5" Hard Drive



Important Information

Safety Precautions

- ➔ Proper caution should be taken at all times, since the 80 kg weight of the iBoard may be overwhelming.
- ➔ When installing or relocating the equipment, it is strongly advised to have at least two strong people to lift and move the iBoard.
- ➔ Proper installation that secures the iBoard in place is essential to avoid any undesired movements and/or accidents. Be sure to:
 - Secure screws correctly that will bear the weight of the iBoard
 - Install only to a strong and sturdy wall
- ➔ Make sure to place cabling in a secure place to avoid any accidents.

Setup Procedures

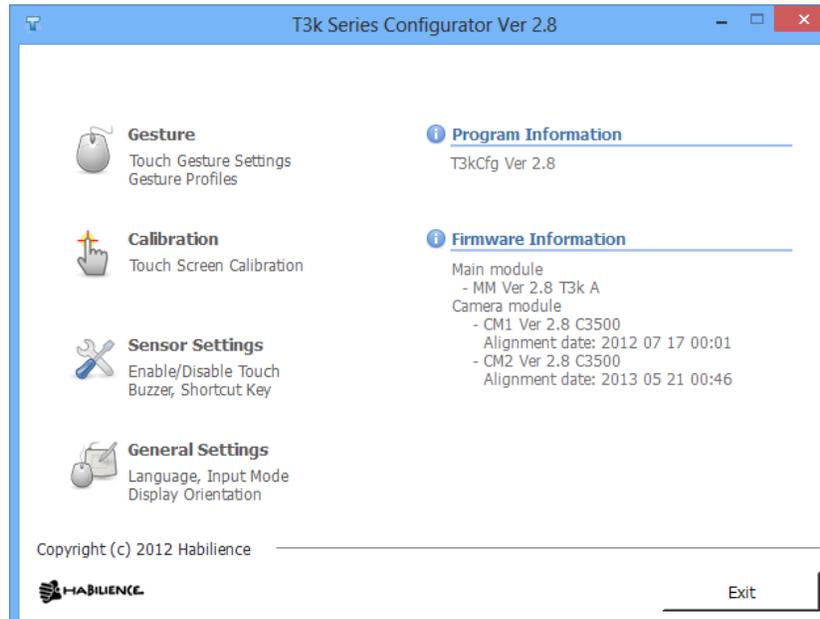
If your iBoard was installed by an iBoard authorized service technician the initial touch system calibration will be performed for you, however from time to time you may notice that the pointer and cursor do not perfectly coincide which is an indication that your system may need to be recalibrated. It should also be noted that if the screen resolution should ever change that you will need to recalibrate the system.

Calibration

Calibrating your iBoard is a quick and simple task that can be done at any time. To calibrate the system, start by either connecting a USB mouse into an available USB port on the side of the iBoard or use your finger to click and launch the installed T3K Configurator software. By default, a link to the program can be found on the Desktop as shown below.

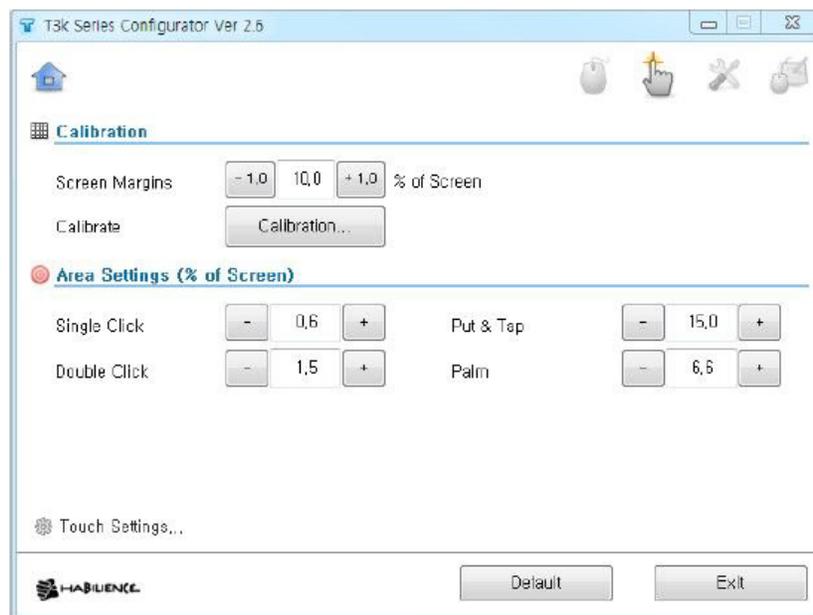


Once the program is launched, the following window will appear where you will see a list on the left side of the window. To begin calibrating the touch system, click on the *Calibration* key.



The following window will appear where you can customize the time delay between a double click or the amount of time your finger must touch the screen for to be recognized as a single click.

For touch calibration, click on the *Calibration* button.



Next, the following window will appear prompting you to press a pointer accurately in the center of each red blinking cross. The system will emit a sound when the pointer is recognised and a second cross will begin blinking once the pointer is removed from the screen. Once all four points are recognised, the system will be calibrated and the calibration utility will close automatically.

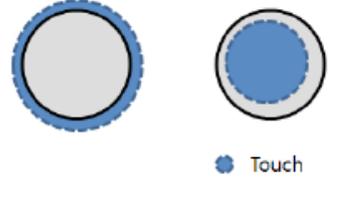


Area settings

Here you can customize the way you interface with the iBoard's touch system in terms of the % area of the screen the pointer must stay within to be recognized for such functions as single click, double click, put & tap, and palm gestures. The values are measured in % of the active screen area and can be changed depending on user preference.

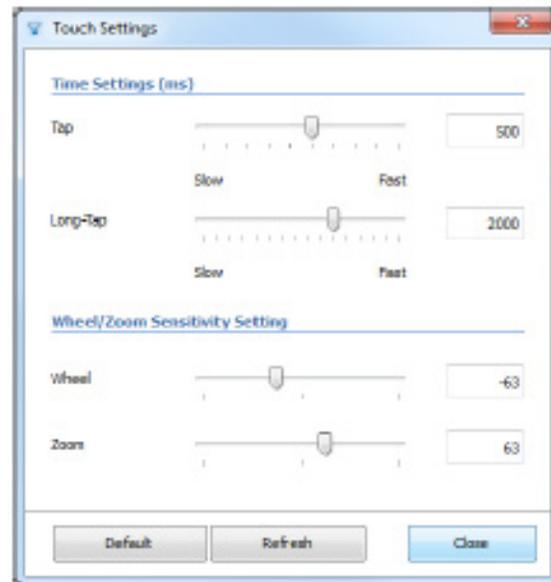


When a person taps on the touch surface, there are two things that the touch system recognizes. One is the initial touch and the other is the lifting of the pointer from the touch surface. The table below offers a visual representation of how the touch system validates a user's input.

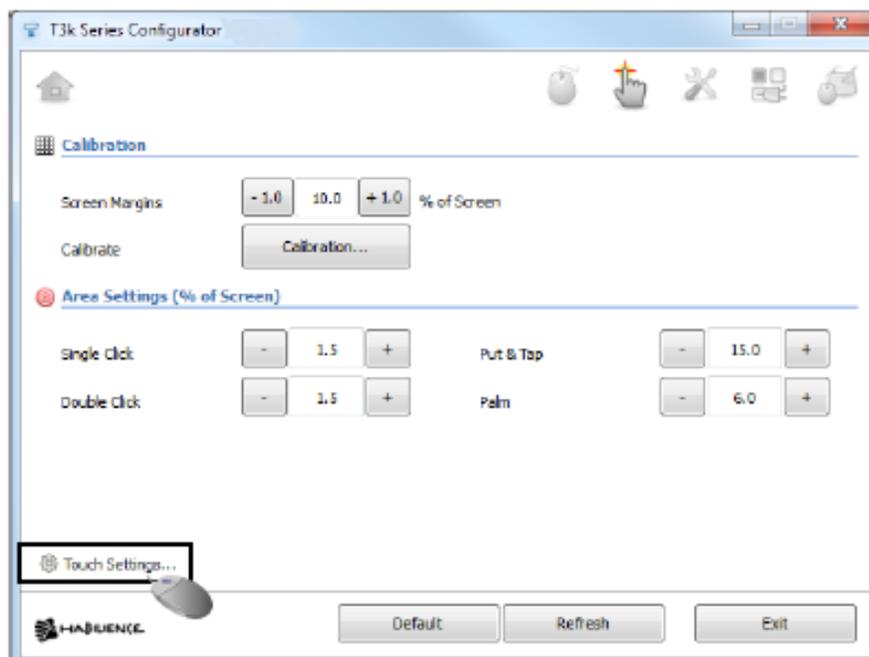
<p>Click Area</p>	<p>This is the area where the user touches and lifts.</p> <p>If the area where the user touches and lifts is not within the bounds set within the Area Settings, the command is not recognized.</p>	<p>A. Valid Click B. Invalid Click</p> 
<p>Double click Area</p>	<p>This is the area where the user touches, lifts, and touches again. If the area where the user touches, lifts and touches again is not within the bounds set in the Area Settings, the command is not recognized.</p>	<p>A. Valid Double Click B. Invalid Double Click</p> 
<p>Put & Tap Area</p>	<p>This is the area that the Put & Tap command will be recognized. If the area in which one performs the Put & Tap is less than the limits of the box defined in the Area Settings, the command is not recognized.</p>	<p>Put & Tap Area</p> 
<p>Palm area</p>	<p>This is the area that the palm is recognized in. If the palm surface is smaller than what is defined in Area Settings, the command will recognize it as a finger or multiple fingers.</p>	<p>A. Palm Touch B. Single Finger Touch</p> 

Touch Settings

To adjust how quickly a user must tap and release in order for a command to be recognized as a valid command, click on the Touch Settings button as shown in the image below.



Once clicked, the following window will appear.



Time Settings

This setting controls the speed in which a finger tap is registered. The units are programmed in milliseconds and are used for functions such as single and double click.

Wheel/ Zoom Sensitivity Settings

Mouse Wheel:

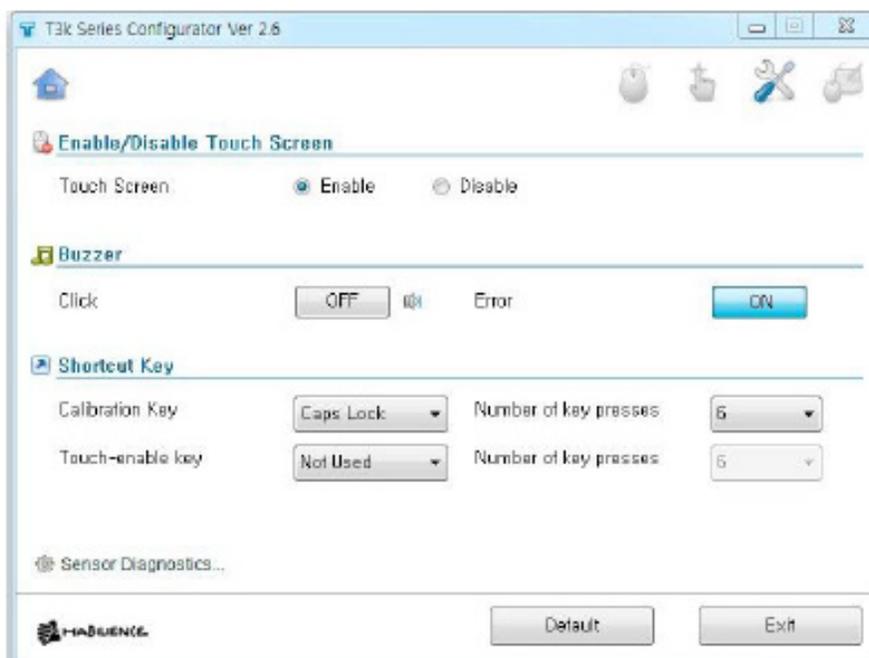
This is the sensitivity setting for the virtual mouse wheel. A positive value will cause the page to scroll downwards as the pointer moves in a downward direction. Alternatively, a negative value will cause the page to scroll upwards as the pointer moves in a downward direction. The closer this value is to zero, the slower the scrolling becomes, alternatively, the higher the value the quicker the scrolling becomes.

Zoom:

This setting controls the zoom sensitivity. As with the mouse wheel settings, it is more sensitive the farther away from zero and less sensitive when it is closer. The functionality may change as one goes from positive to negative depending on the program.

Sensor Settings

The Settings window is divided into Enable/Disable Touch Screen, Buzzer and Shortcut Keys.



Enable/Disable Touch Screen

This section allows to either enable or disable the touch screen. When enabled, the device will respond to touch input. When disabled, the device will not respond to touch input. If disabled, a peripheral device such as a mouse or keyboard will be necessary.

By pressing the Disable Button, the following pop-up appears. Press the Timer Button to disable touch. Otherwise, it will revert back to Enabled.



This helps to limit the effects of disabling the touch feature when there is no other peripheral device present. If disabled, a peripheral device (for example a mouse) will be necessary to revert back to Enabled.

Buzzer

The Buzzer section allows the user to turn on or off any system sounds, such as mouse clicks or error notifications.

'Click' setting enables or disables mouse click sounds. Simply, click the button to the desired setting.

'Error' setting enables or disables error notification sounds. Also very simply, click the button to the desired setting.

Short cut Keys

Calibration Key

Calibrating the device using a short cut key can only be done using a physical keyboard. However, calibration can occur without a physical keyboard.

Calibration Key Caps Lock Number of key presses 6

In the above figure, the Calibration key is set to the actual "Caps Lock" key, and when it is pressed 6 continuous times the pointer will go to the appropriate position and the Touch Coordinate Calibration mode will open.

The user may choose from either the Scroll Lock, Num Lock or Caps Lock key as a set Calibration Key.

To exit out of the Calibration mode simply press Escape or press the chosen Calibration key.

Touch-enable Key

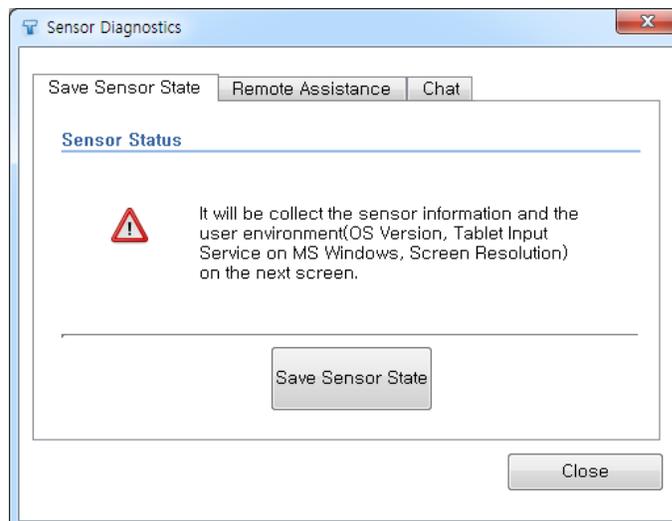
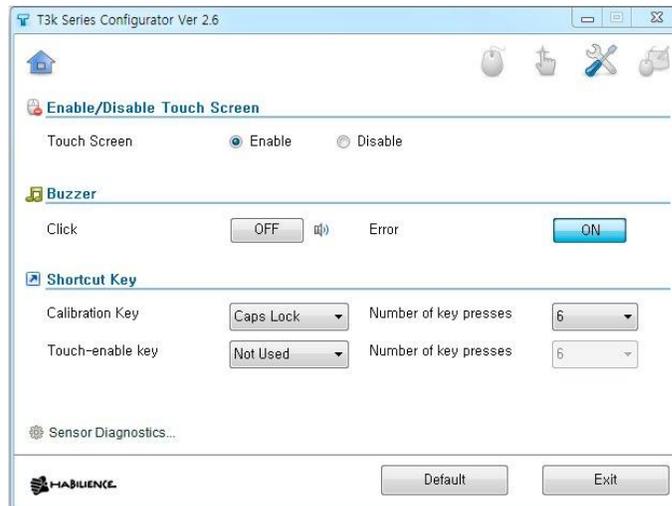
Enabling/Disabling Touch on the iBoard using a short cut key can only be done using a physical keyboard. However, Enabling/Disabling Touch can occur without a physical keyboard.



In the above image, pressing the Scroll Lock button six continuous times disables Touch on the iBoard. Pressing it again six times enables it. The Scroll Lock, Caps Lock, or Num Lock key can all be set as the Touch-Enabling/Disabling short cut key.

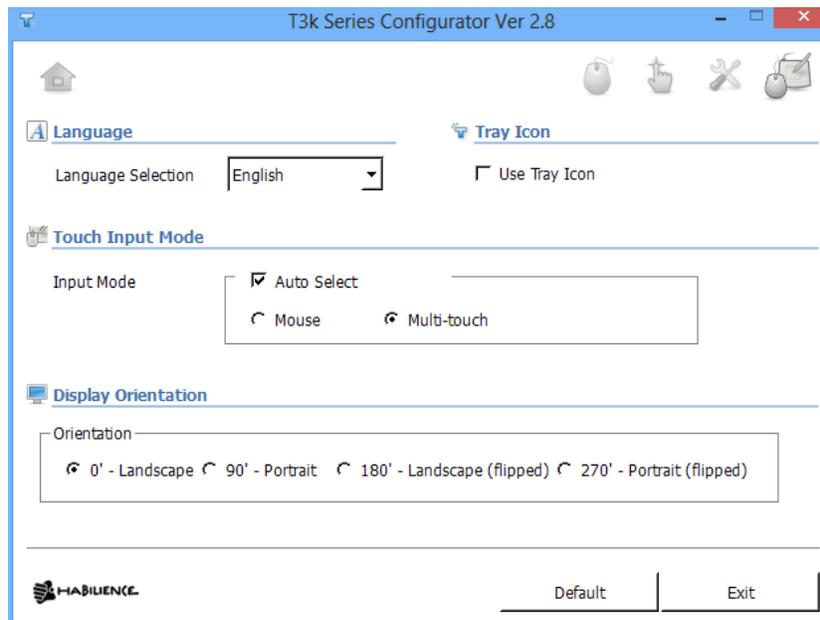
Sensor Diagnostics

If the sensors are not working properly, you can check the status of them in this window.

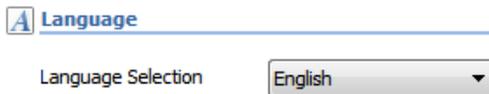


General Settings

In General Settings you can set the language, tray icon settings, and the touch input mode.



Language



The Language section allows for a selection of system language up to and including: English, Korean, Traditional / Simplified Chinese, Dutch, French, Spanish, German, Turkish, Arabic, Portuguese and Japanese.

Tray Icon



The Tray Icon allows you to store profile mappings. If selected and if your iBoard display provides you with other operating systems, you can change from General, Windows 8, Mac OS X, Linux (Gnome), or User Defined from the tray icon rather than opening T3kCfg.exe.

When selected, the Use Tray Icon on the General Settings menu will appear on the Taskbar of Microsoft Windows 7.

T3kCfg Tray Icon



When the user selects Use Tray Icon, the program does not terminate after pressing Exit but stays on until Exit is selected from the Taskbar.

By using the Tray Icon, you can also check the status of the T3k Touch Sensor.

 The sensor is disconnected.

 The sensor is connected and using the number 2 Windows 8 Profile.

Touch Input Mode

The T3k Touch Sensor supports two input modes, mouse and multi-touch.

Mouse:

This mode is for basic mouse input. Using the Mouse mode, allows the use of all gestures prevalent with the T3k Touch Sensor. Even if the operating system does not support multi-touch, T3k Touch Sensor gestures will still be able to be used.

Multi-Touch:

This mode is for operating systems that already support multi-touch, i.e. Windows 7 or 8. When selecting Multi-Touch mode, the operating system recognizes gestures taken on the screen. This mode however, does not support the inherent gestures of the T3k Touch Sensor.

Using your iBoard Interactive Display

Turning your iBoard Interactive display on / off

To turn on your Interactive panel:

- Connect the power cord between the iBoard and wall outlet.
- Press the power switch to the ON position.
- Press the power button on the front button control panel or press the power button on the remote control.
- The iBoard logo will illuminate and the iBoard is ready to use.

To turn off your interactive panel:

- Place your finger on the far right side of the screen and swipe to the left to open the Charm Bar.
- Click Settings.
- Click the Power button and click shut down.
- When the process of shutting down is completed, press the power key on the front button control panel or press the power button on the remote control.

Using Windows 8

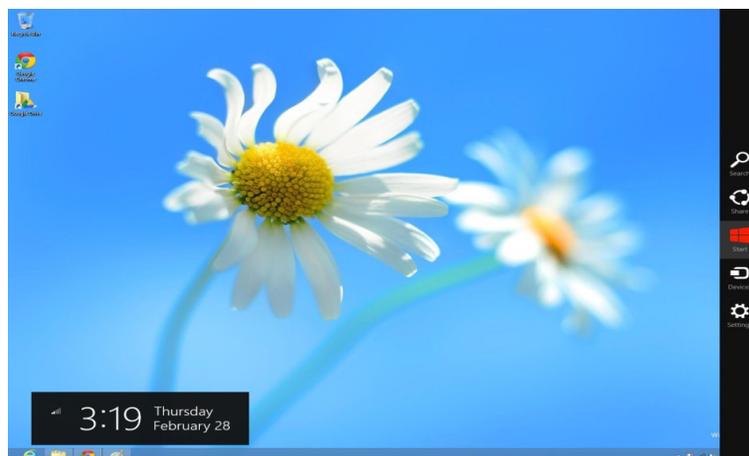
After turning on your Interactive display, you will see the following screen,



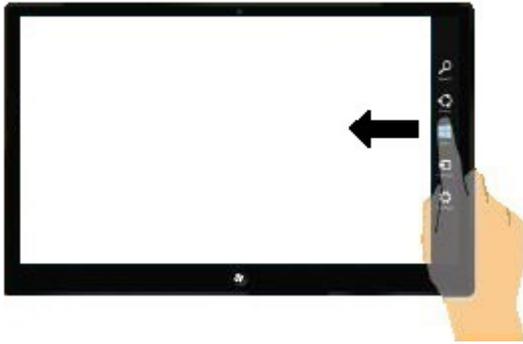
You can choose to use the classic Windows desktop by tapping or clicking on the desktop icon with your finger or mouse.

To go back to the start screen, place your finger on the far right side of the screen and swipe to the left to open the Charm Bar. To return to the start screen, click on the Start button.

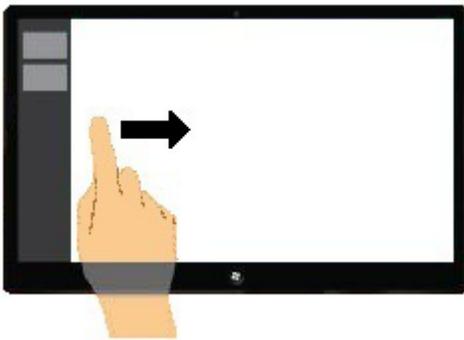
To connect to a wireless network, go to the Charm Bar and click on the Settings button. Click on wireless connections and choose a wireless network. Note that if you choose a secure wireless network, you may be prompted for a password.



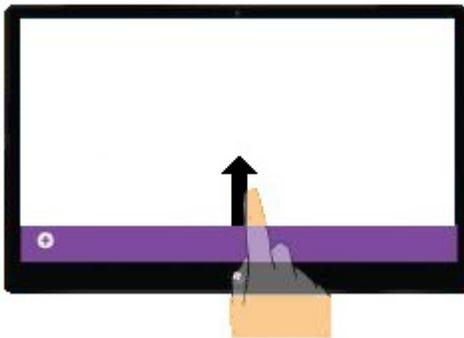
Touch gestures



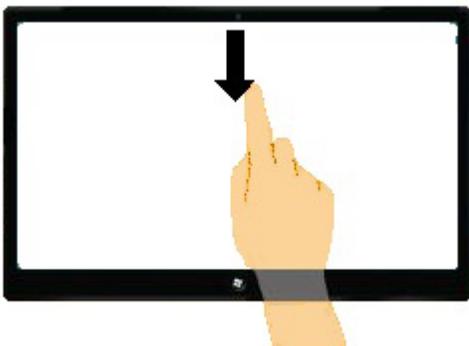
Swipe from the right to the left to show the Charm Bar or to return to the Start option.



Swipe from the left to the right to switch between open applications.



Swipe up to reveal application commands.



Swipe down to close application.

Using your remote control

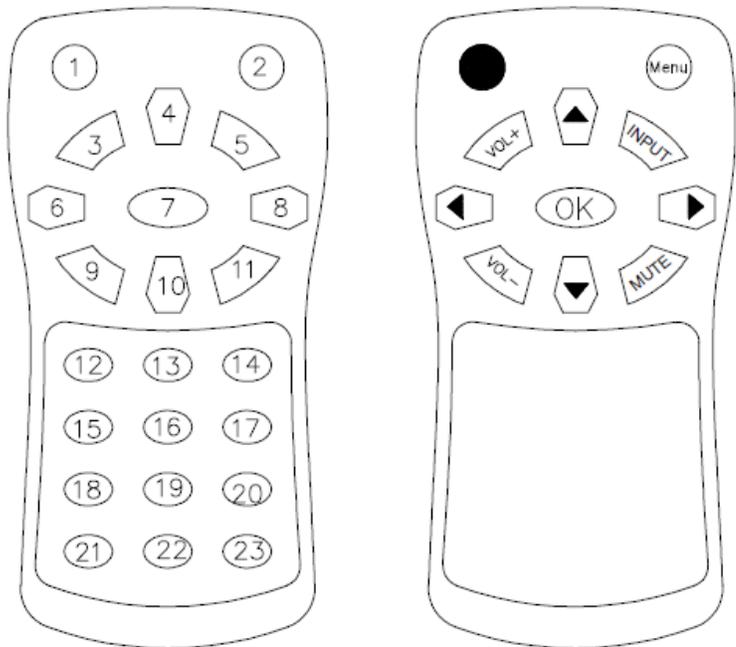
Your remote control operates your iBoard equipment; it provides features that will enable you to turn your iBoard on and off, adjust the volume, change inputs and navigate the menus.

To install the batteries

1. Open the cover of your control remote.
2. Insert 2 AAA batteries in the remote control and ensure that the (+) and (-) poles are aligned properly with the marks in your product.
3. Replace the cover.

Remote Control buttons

KEY NO.	DESCRIPTION
1	STAND BY
2	MENU
3	VOL +
4	SELECTION UP
5	INPUT
6	SELECTION LEFT
7	OK
8	SELECTION RIGHT
9	VOL -
10	SELECTION DOWN
11	MUTE



Touch commands that your touch system recognizes

 <i>Single Touch</i>	Touch the screen via a single finger.
 <i>Fingers Touch</i>	Touch the screen with multiple fingers.
 <i>Palm Touch</i>	Touch the screen with the palm of one's hand.
 <i>Put & Tap</i>	Place one finger on the screen and tap with another finger.
 <i>Zoom</i>	Place two fingers on the plane of the screen and move them farther apart or closer together. <i>Zoom-in:</i> Move the fingers farther apart. <i>Zoom-out:</i> Move the fingers closer together.

Touch actions that the touch system recognizes

<i>Drag</i>	Place the pointer on the screen and move.
<i>Tap</i>	Press and let go of the screen in a quick fashion.
<i>Double Tap</i>	Press and let go of the screen twice in a quick fashion.
<i>Long Tap</i>	Press and let go of the screen but in slower fashion.

Tips on using your iBoard

How to reset or restart the unit

In the unlikely event that your iBoard becomes unresponsive, first wait a few minutes as the system may be handling several operations at once where it may halt user interaction momentarily. If it seems that this is not the case, there are two ways of restarting the system. The first is called a Soft Restart where the computer restarts by saving any information in opened programs and then closing all running programs before rebooting. The second is called a Hard Restart where the computer restarts immediately without saving any information or closing running programs.

To perform a soft restart simply press and hold the power button located on the face of the computer until the system begins its shut down routine.

If this does not work then proceed with the hard restart by inserting a narrow object like an unfolded paper clip into the small opening labelled Reset on the face of the computer and pressing the small button inside of the opening until the computer restarts.

How to connect an external computer

To connect an external computer to the iBoard and bypass the system's internal computer follow the steps outlined below.

1. Connect your computer to the iBoard using a HDMI cable from your computer's HDMI port and connect it to the HDMI port located on the left side of the iBoard.
2. Turn on your computer.
3. Either using the iBoard's remote control or the buttons located at the lower left corner of the front face of the iBoard, press the button labeled Input and change the input to HDMI-3 using the arrow keys.
4. Press OK on the remote or Input again on the front panel.

Note:

- While your iBoard is running off of an external computer, the touch screen will be inactive and will rely on your external computer's touch pad or mouse.

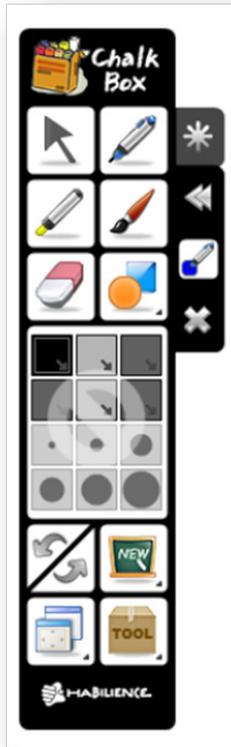
Using gesture control

Your iBoard recognizes the following gestures:

- Single touch
- Fingers touch
- Palm touch
- Put and tap
- Zoom
- Drag

For illustrative references on recognizable gestures, please refer to the section entitled *Touch Types that your Touch sensor recognizes*.

Using Chalkbox



ChalkBox is an application that allows the user to create annotations, draw, write and erase on screen with simple hand gestures. With Chalkbox open you could choose between the two modes of operation, one being Blackboard mode where you can write, draw and erase and the second being Pointer mode in which you can open, drag and drop folders as you could before opening Chalkbox.

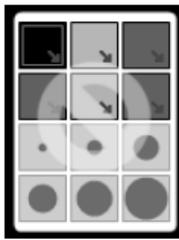
As illustrated in the image to the left, icons with a small arrow in the lower right hand corner have a hidden drop down menu embedded in that function heading. Tapping on one of these icons reveals more functions.

Areas that are greyed out signifies that those functions are not available with the currently selected function.

The Chalk box window is divided into four main selections and their functions are described below.



Drawing Pane.
This section contains tools such as the pointer, pen, marker, oriental brush, eraser and polygons.



Color and Thickness Pane
From this section you can select the color and thickness of your selected tool when it is in Blackboard mode.



Accessories Pane
You can find most of the applications in this area



Right Tab
You can minimize, exit the application or go back to the previous used tool.

Drawing Pane

This pane contains all the tools needed to perform onscreen markup.

Pointer and Blackboard Mode Indicators



Having this icon displayed in the top left corner of the Chalkbox window signifies that you are in Pointer mode where you can click and drag icons as if Chalkbox was not open.



Having this icon displayed in the top left corner of the Chalkbox window signifies that you are in Blackboard mode where you will be able to use the tools contained in Chalkbox. Tapping this icon will bring you back to pointer mode.

The pen



You can select the pen to perform onscreen markup. There are six default colors you can choose from and an option to select from a broader range of colors by right clicking in one of the six default colors. There are a total 127 colors and 13 grayscales to choose from. There are also six thickness options that the user can choose.

The marker



You can select the marker to perform onscreen markup. You have six default colors you can choose from and the option to select from a broader range of colors by right clicking in one of the six default colors. There are a total 127 colors and 13 grayscales to choose from. There are also six thickness options that the user can choose.

The oriental brush

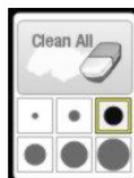


You can select the oriental brush to perform onscreen markup. You have six default colors you can choose and the option to select from a broader range of colors by right clicking in one of the six default colors. There are a total 127 colors and 13 grayscales to choose from. There are also six thickness options that the user can choose.

The eraser



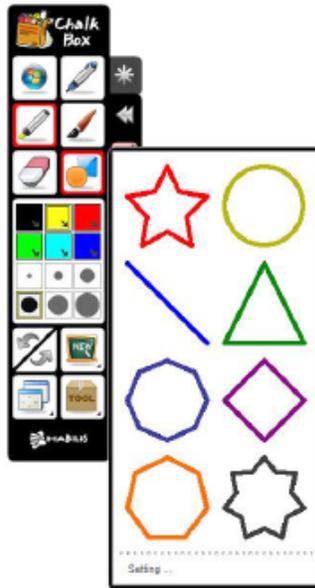
You can select the eraser to selectively erase part of the screen or the entire screen at once. Once selected, the color and thickness pane changes to the pane showed in below. From this box you can select to clear the entire screen, or choose a desired eraser thickness.



The figures



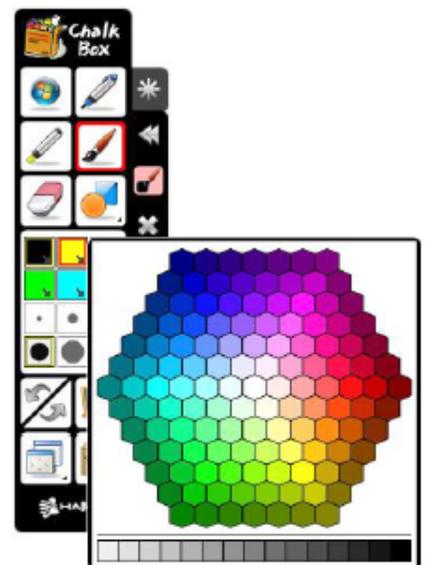
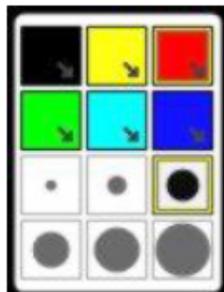
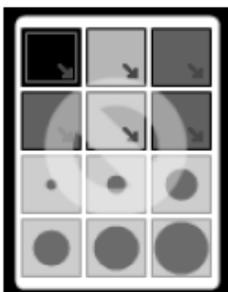
You can draw figures such as stars, triangles, rectangles, circles and more. Click on the lower right hand side of the polygon button and you will see all the options you have as illustrated in the image below. You can also change thickness, color, or transparency, etc. by clicking on settings on the bottom of the pop-up window.



The Color and Thickness Pane

This section will become active only after pen, marker or brush is selected.

As illustrated in the image below, the colors have an arrow on the lower right hand corner. This indicates that there are more colors you can choose from. You can select from a broad range of 127 colors and 15 greyscales as shown in the image shown beside.



Accessories Pane

Undo/Redo



This option becomes active when such tools as the pen, marker, or brush tools are selected and is used to undo or redo any recent operations. When there are operations that can be undone, the top arrow changes to blue and alternatively, when there are operations that can be redone, the bottom arrow changes to purple.

Blackboard



Tap the blackboard icon to open a submenu which allows the user to choose from a number of different background styles. The default style is a transparent overlay on top of the Windows Desktop for which the user can add markup to. You can also add up to a total of 19 images by going to, Start Menu > All Programs > ChalkBox > Config Folder and adding your images to this folder. The next time Chalkbox opens these images will be available.

Screens



With the screen option you can select how you want your screen to appear. You can choose an opaque or transparent background. The difference between the Screens option and selecting a writing application is that with Screens you can easily be switching from Blackboard mode and Pointer mode. Screens can be displaced, therefore you can divide the screen in two and work on both windows, and one can be used to show a lecture and the other to take notes.

To exit from Transparent or Opaque screens, go back to the Screens icon and select the appropriate screen. If you already have selected Transparent, go to Screens and reselect Transparent to get out. Another way is to go choose the cross pointer and go select the "X" mark on the top right hand corner.



This icon shows up when you select the Screens icon (Transparent or opaque screen). It indicates that your window is movable. With this option you can also change the screen size.

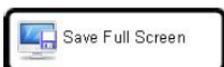
The Tool Box



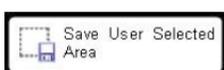
The toolbox contains a submenu containing helpful tools such as Save Screen, Virtual Keyboard, Spotlight, Magnifier, and Print.



Contains a submenu that allows the user to capture either the entire screen, active window, or a user defined area of the screen.



Takes a snapshot of the entire screen and prompts the user to save the image to a desired location.



Allows the user to highlight a desired area by tapping and dragging the pointer to the opposite corner of the area to be captured. The user will then be prompted to save the image to a desired location.



Opens a virtual onscreen keyboard.



Spotlight simply blackens the area of the screen outside of either a circular or rectangular shape depending on what the user selects. The size of the shape can be manipulated by tapping and dragging the edge of the shape to a desired size.



Opens the windows magnifier.



This function allows you to print images already saved in the blackboard.

Right Tab

The right tab contains four icons down the right side of the Chalkbox menu bar, which include Select, Maximize / Minimize, previous Tool, and Exit.



Select. This allows the user to move the Chalkbox menu bar around the active desktop. You can also move your window by selecting the title bar.



Maximize/Minimize. This allows the user to minimize or maximize the Chalkbox window. The direction of the arrow changes depending on the status of your application.



Previous tool. Allows the user to go back to the previous used tool and its color.



Exits the Chalkbox application.

Maintenance and cleaning

- ➡ To clean the anti-reflective interactive surface, first turn off your iBoard and disconnect the power cord before you begin. Use a soft dry cloth without chemicals to wipe the soft polarized surface.
- ➡ Do not use cleaning solutions, abrasive powders, soaps, or detergents on the interactive screen as it can deteriorate the anti-reflective surface.
- ➡ Do not use rough or irregular shaped materials to clean the interactive surface as it could leave scratches on the surface. Scratches cannot be removed from your screen.
- ➡ Avoid applying excessive pressure to the screen.

Troubleshooting for your interactive display

This section provides you with information to solve common issues that can occur with your iBoard 9065. If a problem cannot be resolved using the following troubleshooting sections please contact iBoard customer service for more help.

Symptom	Causes	Solutions
The screen only displays a "No Signal" message.	The iBoard's internal computer may be turned off.	Turn on the computer.
	The internal computer is not fully inserted into the computer compartment.	Ensure the computer is fully inserted into the computer compartment.
	The iBoard is in sleep mode.	Touch the screen and swipe up with your finger.
	The wrong source/input has been selected.	Ensure the Source/Input is set to HDMI-2 for the internal computer or HDMI-3 for an external computer.
No cursor appears when you touch the screen or you cannot move the icons.	The ChalkBox application may be open.	Press the Windows icon at the upper left hand side of your ChalkBox window, it will go back to cursor mode.
Your cursor appears but in the wrong location.	The resolution may have changed, therefore your iBoard needs to be recalibrated.	Recalibrate the touch system as described in the Calibration section of the User's Manual.
	The cameras may have become misaligned.	Contact iBoard's customer service department.
An area of the screen doesn't respond to your touch.	The Cameras are obstructed.	Ensure the two top corners have not been obstructed by debris of any kind.
	The cuff of your shirt or palm of your hand may be confusing the touch system.	Ensure you are following the accepted gestures specified in the section Touch Types that your Touch sensor recognizes of the User's Manual.
	There is too much ambient IR light in the room interfering with the touch system's cameras.	Try to reposition your iBoard or direct the face of the iBoard away from the greatest source of light.

Symptom	Causes	Solutions
There is no sound when you are playing a media file.	Windows Master volume is set too low or muted.	Turn up the volume on your speakers or turn off the mute setting.
	Windows Media Player volume is set too low or muted.	Turn up the volume on your speakers or turn off the mute setting.
	The iBoard's master volume is set too low or muted.	Turn up the volume on your speakers or turn off the mute setting Note: your remote control only controls your iBoard's master volume.
The iBoard will not turn on.	The batteries in the remote control need to be replaced.	Replacing the batteries.
	Power supply is not properly plugged in.	Ensure the power supply is fully connected.

Note:

- You can access the Windows Help and Support Programs by choosing Help from the program's menu and selecting View Help or by pressing F1 in your keyboard.
- Most software issues can be resolved by simply restarting the computer.

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