

# Specification for Power2Board

System Component	Item	Item Description
<b>Whiteboard Hardware</b>		
	<b>Porcelain Enamel Steel</b>	<ol style="list-style-type: none"> <li>1. Surface to be 24 gauges or less steel, covered on both sides with a fired ground coat of porcelain frit and colored with an additional top coat of colored porcelain frit fired at approximately 1000-1500 degree F.</li> <li>2. The porcelain steel sheet is to be laminated to suitable substrate to withstand the normal impact under school environment</li> <li>3. Tailor-made size up to 1.5m x 4.2m (5' x 14') is available to suit different classroom but client should consider the limitation of staircase &amp; corridor before ordering</li> <li>4. All kinds of marker pens can be written on &amp; erased from the porcelain steel surface without requiring any special solvent &amp; causing any damages on surface</li> <li>5. The porcelain steel surface should be scratch &amp; stain resistance under normal school environment</li> <li>6. The color of porcelain steel surface should not fade even under prolonged application &amp; cleaning</li> <li>7. Screen printing of addition color covered on the porcelain enamel steel is available</li> </ol> <p>* Technical specification available upon request</p>
<b>System Hardware</b>		
	<b>Receiver</b>	<ol style="list-style-type: none"> <li>1. Smallest capture area 0.3m x 0.4m</li> <li>2. Maximum capture area 1.2m x 2.4m (up to 2.74m diagonal)</li> <li>3. Connect to computer via standard USB or wireless Bluetooth connection</li> <li>4. USB and Bluetooth connection compatible with Windows or Macintosh computer</li> <li>5. Comes with a USB A to mini-b cable</li> <li>6. Wireless comes with a power supply</li> <li>7. Free receiver firmware upgrades as they are released</li> <li>8. Operational Temperature 16°C – 32°C</li> <li>9. Operational Humidity 40% - 70%</li> <li>10. Drop tested in all orientations from 3ft, 5ft and 7ft</li> </ol>

System Component	Item	Item Description
		11. TUV CU and GS Mark 12. Receiver works with motion sensor in room  * Technical specification available upon request
	<b>Electronic Marker Pen</b>	1. Marker pen sleeve that can be used to physically write data that is captured by the receiver into the Whiteboard Data Capture software. 2. Marker pen sleeve works with standard dry-erase markers (Sanford Expo, Sanford Expo2, Legamaster e-boardmarker) 3. Cap for dry-erase markers when stored in the electronic marker pen sleeve. 4. Standard sleeve colors (Black, Blue, Green, Red) 5. Uses 2 Coin Cell Batteries size CR2032 6. Operational Temperature 16°C – 32°C 7. Operational Humidity 40% - 70% 8. Weight 1.2oz 9. Length 14.2cm (not including dry-erase marker tip length) 10. Battery low warning signal transmitted to software 11. Battery Life ~ 80 hours 12. Drop tested in all orientations from 2m  * Detailed technical specification available upon request
	<b>Electronic Stylus</b>	1. Stylus that can be used just like a computer’s “mouse” with the receiver and the Interactive Presentation software 2. 3 buttons (programmable by user): <ul style="list-style-type: none"> <li>• Tip – for mouse left-click operations</li> <li>• Button 1 – for mouse right-click operations</li> <li>• Button 2 – activate the Interactive Presentation software’s main menu</li> </ul> 3. Uses 1 AA battery 4. Operational Temperature 16°C – 32°C 5. Operational Humidity 40% - 70% 6. Weight 1.2oz 7. Length 14.5cm 8. Diameter 21mm 9. Battery low warning signal transmitted to software 10. Battery Life ~ 150 hours

System Component	Item	Item Description
		11. Drop tested in all orientations from 2m  * Detailed technical specification available upon request
	<b>Electronic Eraser</b>	1. Electronic eraser that can be used to physically erase dry-erase marks. The erasures are captured by the receiver into the Whiteboard Data Capture software. 2. Uses 2 Coin Cell Batteries size CR2032 3. Replaceable eraser pads 4. Operational Temperature 16°C – 32°C 5. Operational Humidity 40% - 70% 6. Battery low warning signal transmitted to software 7. Battery Life ~ 80 hours 8. Drop tested in all orientations from 2m  * Detailed technical specification available upon request
<b>Whiteboard Software</b>		
	<b>Supported Operating Systems</b>	<ul style="list-style-type: none"> <li>• Windows 2000</li> <li>• Windows 2003</li> <li>• Windows XP</li> <li>• Windows Vista</li> <li>• Mac OS X (10.4 or later)</li> </ul>
	<b>Data Capture</b>	1. Captures notes and drawings made with the Electronic Marker and Electronic Eraser in real-time (writing appears on computer screen immediately, as you draw) 1. Software automatically detects Marker Pen. 2. Software prompts user to calibrate. 3. Software should display a low battery warning when the Electronic Marker or Electronic Eraser has a low battery. 4. Smallest capture area 0.3m x 0.4m 5. Maximum capture area 1.2m x 2.4m (up to 2.74m diagonal) 6. <i>Linking two systems - maximum capture area 1.2m x 3.6m</i> 7. Automatically launch Whiteboard Software when system detects data capture 8. Specify the color shown on the computer screen for a specific Electronic Marker Pen. 9. Variable thickness of line drawings 10. Change pen color, line thickness for all data captured in data file, or only for new data

System Component	Item	Item Description
		<p>captured.</p> <p>11. All captured data stored as objects that can be moved, rotated, copied to other pages in the Whiteboard Software file.</p> <p>12. Change the Z-order of the objects on a page. Individually move the objects backward and forward in order.</p> <p><b>13. Group and ungroup objects.</b></p> <p>14. Select which page is receiving data from the whiteboard.</p> <p>15. Print page(s) of data to any printer available on the computer</p> <p>16. Capture multiple pages of data within one data file</p> <p>17. Reorder pages of data within the data file</p> <p>18. Create new, duplicate, or delete pages of data within the data file</p> <p>19. Insert a new page before the currently displayed page.</p> <p>20. Replay all data created in a page(s) of data like a movie</p> <p><b>21. Record audio and page data together into an *.avi format that can be played back in Windows Media Player.</b></p> <p>22. Tell computer to create a new page or print a data page from the whiteboard by tapping a pre-selected point (template used on whiteboard)</p> <p>23. Send data files in multiple file formats via MAPI-compliant email client</p> <p>24. Import/Merge existing Whiteboard Software files with the open file.</p> <p>25. Automatically save data file (autosave)</p> <p>26. Save/export data files in following formats:</p> <ul style="list-style-type: none"> <li>• PDF, Vector PDF</li> <li>• HTML</li> <li>• Bitmap (*.bmp)</li> <li>• JPEG (*.jpg)</li> <li>• TIFF (*.tif)</li> <li>• Metafile (*.emf)</li> <li>• PowerPoint Presentation (*.ppt)</li> <li>• PowerPoint Show (*.pps)</li> </ul> <p>27. Annotation, highlighter and erase from computer on page of data</p> <p><b>28. On-screen keyboard (with ability to reposition)</b></p> <p>29. Stores calibration data between users</p> <p>30. Free software updates as they become available</p> <p>31. Automatic software update checker embedded in software</p> <p>32. Software licensing included for installation on multiple systems (this is to enable</p>

System Component	Item	Item Description
		<p>maximum use of whiteboards via multiple laptops, for example).</p> <p>33. No prohibition against the use of third-party software with the solution.</p> <p>34. Technical support available from manufacturer</p>
	<p><b>Dataconferencing / Meeting Sharing</b></p>	<ol style="list-style-type: none"> <li>1. Share the meeting over the Internet via a web server hosted on the Internet.</li> <li><b>2. Share the meeting over an internal intranet via local hosting.</b></li> <li>3. Any user can connect to a shared meeting and see what is being drawn in the Whiteboard Software in real-time.</li> <li>4. All users logged into meeting can annotate on the data pages.</li> <li>5. All users logged into meeting can see a list of users logged into meeting.</li> <li>6. Host has ability to disallow annotations from selected participants.</li> <li>7. All users logged into meeting can chat (send text messages) within the Whiteboard Software.</li> <li>8. Host can synchronize so all users are always on the same data page</li> <li>9. Archive a meeting data file</li> <li>10. Send invitations to the shared meeting via email</li> <li><b>11. Use pre-set IE proxy server settings to connect the Whiteboard Software to a proxy server.</b></li> </ol>
<b>Interactive Presentation Software</b>		
	<p><b>Supported Operating Systems</b></p>	<ul style="list-style-type: none"> <li>• Windows 2000</li> <li>• Windows XP</li> <li>• Windows 2003</li> <li>• Windows Vista</li> <li>• Mac OS X (10.4 or later)</li> </ul>
		<ol style="list-style-type: none"> <li>1. Use with data projector and Electronic Stylus.</li> <li>2. Control your computer operating system from the projected “display area” using the Electronic Stylus.</li> <li>3. Virtually capture notes and drawings made with the Electronic Stylus in real-time (data appears on computer screen immediately, as it is drawn)</li> <li>4. Maximum capture area 1.2m x 2.4m (up to 2.74m diagonal)</li> <li>5. Software automatically detects Electronic Stylus.</li> <li>6. Software prompts user to calibrate.</li> <li><i>7. Linking two systems - maximum capture area 1.2m x 3.6m</i></li> <li>8. Show/Hide Interactive Presentation Software main menu within the display area using</li> </ol>

System Component	Item	Item Description
		<p>button on Electronic Stylus.</p> <p>9. Interactive Stylus buttons can be user configured to be right click, left click, middle click, or show/hide the main menu.</p> <p><b>10. Main menu contains configurable tool palettes to allow all commonly used features to be easily available.</b></p> <p><b>11. Advanced and Basic primary tool palettes</b></p> <p><b>12. Transparency and size settings for primary tool palettes</b></p> <p><b>13. Gesture-based navigation</b></p> <p>14. Print page(s) of data to any printer available on the computer</p> <p>15. Capture multiple pages of data within one data file</p> <p>16. Reorder pages of data within the data file</p> <p>17. Create new, duplicate, or delete pages of data within the data file</p> <p>18. Replay all data created in a page(s) of data like a movie</p> <p><b>19. Record audio and page data together into an *.avi format that can be played back in Windows Media Player.</b></p> <p>20. Send data files in multiple file formats via MAPI-compliant email client</p> <p>21. Automatically save data file (autosave)</p> <p>22. Save/export data files in following formats:</p> <ul style="list-style-type: none"> <li>• PDF, Vector PDF</li> <li>• HTML</li> <li>• Bitmap (*.bmp)</li> <li>• JPEG (*.jpg)</li> <li>• TIFF (*.tif)</li> <li>• Metafile (*.emf)</li> <li>• PowerPoint Presentation (*.ppt)</li> <li>• PowerPoint Show (*.pps)</li> </ul> <p>23. Annotate directly onto the projected image using standard pen, highlighter, eraser, text, and shapes tools. (Annotating over the desktop)</p> <p>24. Import images into background</p> <p>25. Import screen shots into background</p> <p>26. Drag and drop objects onto data page and between data pages</p> <p>27. All annotations, images, and text boxes are objects</p> <p>28. All objects can be moved, rotated, resized, and copied to other pages in the Projection Software file.</p> <p>29. Change the Z-order of the objects on a page. Individually move the objects backward</p>

System Component	Item	Item Description
		<p>and forward in order.</p> <p><b>30. Group and ungroup objects.</b></p> <p>31. Included clip-art gallery</p> <p><b>32. Spotlight</b></p> <p><b>33. Reveal Page (covers sheet)</b></p> <p><b>34. Layers on each page</b></p> <p><b>35. Layers can be shown/hidden or locked</b></p> <p>36. On-screen keyboard (with ability to reposition)</p> <p>37. Import/Merge existing Projection Software files with the open file.</p> <p><b>38. Handwriting Recognition Toggle button (ritePen 2.5 or later)</b></p> <p>39. Screen/object capture</p> <p><b>40. Hyperlink/embedded resources</b></p> <p>41. Import the following standard image formats:</p> <ul style="list-style-type: none"> <li>• Bitmap (*.bmp)</li> <li>• Graphic Files (*.gif, *.jpg, *.ico, *.emf, *.wmf)</li> <li>• Excel Spreadsheets (*.xls)</li> <li>• PowerPoint Presentations (*.ppt)</li> <li>• Word Document (*.doc)</li> </ul> <p>42. Import text from regular office applications (for example, 'copy and paste' function) into text boxes</p> <p><b>43. Integration with third-party applications, such as IE 6, MS Word, MS Excel, MS PowerPoint.</b></p> <p><b>44. Embedded PowerPoint presentation display functionality. Included functions:</b></p> <ul style="list-style-type: none"> <li>• <b>Display a PowerPoint slideshow in slideshow format</b></li> <li>• <b>Annotate over the slideshow</b></li> <li>• <b>Save annotations back into original PowerPoint file</b></li> </ul> <p>45. Store calibration data between users</p> <p><b>46. Handwriting recognition software included</b></p> <p>47. Free software updates as they become available</p> <p>48. Automatic software update checker embedded in software</p> <p>49. Software licensing included for installation on multiple systems (this is to enable maximum use of whiteboards via multiple laptops, for example).</p> <p>50. No prohibition against the use of third-party software with the solution.</p> <p>51. Technical support available from manufacturer</p>
	<b>Dataconferencing /</b>	1. Share the meeting over the Internet via a web server hosted on the Internet.

System Component	Item	Item Description
	Meeting Sharing	<ol style="list-style-type: none"> <li>2. <b>Share the meeting over an internal intranet via local hosting.</b></li> <li>3. Any user can connect to a shared meeting and see what is being drawn in the Interactive Presentation Software in real-time.</li> <li>4. Any connected user can see objects imported or drag-and-dropped into the data page.</li> <li>5. Background images and imported MS Word, MS Excel, and MS PowerPoint files are shared to all users.</li> <li>6. All users logged into meeting can annotate on the data pages.</li> <li>7. All users logged into meeting can see a list of users logged into meeting.</li> <li>8. Host can synchronize so all users are always on the same data page</li> <li>9. Display web pages in the shared meeting for all users logged into the meeting to view.</li> <li>10. Archive a meeting data file</li> <li>11. Send invitations to the shared meeting via email</li> <li>12. <b>Use pre-set IE proxy server settings to connect the Interactive Presentation Software to a proxy server.</b></li> </ol>