Samsung MagicIWB (Interactive White Board) solution

A flexible, efficient and engaging presentation solution for business and learning environments
Deliver rich content and interactivity to the classroom or meeting room

Recent developments in display technology have opened new avenues of information sharing and presentations for education and business applications. The expansion of large format display (LFD) usage is leading to the replacement of traditional projectors. Interactive e-Boards in meeting rooms and classrooms are enabling teachers and executives to use creative, collaborative methods to present and distribute information.

Touch display technology is becoming commonplace, providing stimulating new ways to attract and hold the attention of audiences, whether in a classroom or business environment. These technologies are well suited to support various learning and business applications.

Educational facilities and businesses are considering touch display technology to improve student learning and provide high-quality, effective company presentations. Educators and business executives require enhanced interactivity between facilitators and participants.

Whether they are facilitating interaction between teachers and students or business executives and clients or staff, professionals require:

- Greater control of the presentation environment with reduced distractions
- Engaging visual and audio presentations for various content
- Decreased operational expenses

The traditional projectors used for presentations pose visual distractions and face limits in their capabilities. The Samsung MagicIWB (Interactive White Board) solution with touchscreen technology delivers higher readability with greater brightness and full high definition (FHD) quality. In addition, the interactivity provided by MagicIWB (Interactive White Board) helps hold audience attention and increases participation, enhancing the overall learning and information-sharing experience.

As budgets decrease, the need to find cost-saving methods of teaching and distributing information increases. MagicIWB (Interactive White Board) boasts a longer life span and reduced need for maintenance compared with traditional projectors.

When choosing Samsung’s large 65-inch and 75-inch LED interactive whiteboard (IWB) displays, customers enjoy simplified installation and maintenance. Not only are these benefits superior to traditional projectors, they also compare favorably with the features of other IWBs using top- or rear-projection. Samsung’s LED technology provides significantly sharper, smoother and brighter picture quality without visual distortion.

The complete MagicIWB (Interactive White Board) solution consists of the following elements:

**MagicIWB (Interactive White Board)**
MagicIWB (Interactive White Board) is powerful software that provides simplified, direct access to e-books, CDs, videos, animations, images, Microsoft® PowerPoint® presentations and Internet content.

**MagicIMS (Interactive Management Solution)**
This element connects teachers’ and students’ or presenters’ and attendees’ devices to encourage interactive communication. Participants can share files and other materials, and teachers or presenters can control audience devices during classes and presentations.

![Figure 1. The software deployment diagram for the MagicIWB (Interactive White Board) solution.](image)
MagicIMS Agent
MagicIMS Agent provides touch-sensitive optical technology, enabling interaction between the electronic whiteboard and attendees’ PCs or tablets. Combined with MagicIWB (Interactive White Board) software, this element permits the presenter to access PowerPoint presentations, videos and more with the touch of a finger.

FileViewer
The IWB FileViewer program enables reading and printing of documents created on the IWB.

Touchscreen technology provides stimulating new ways to attract and hold audience attention and is replacing traditional projectors in classrooms and boardrooms.

Choose from an array of elements to suit specific needs
The MagicIWB (Interactive White Board) solution provides a range of features tailored to fulfill myriad customer needs and includes the following:

A multitouch display for interactive collaboration
This option includes an LFD with an overlay touchscreen for applications that do not require a digital whiteboard for writing. For those who usually use e-boards only for presentations and simple memos, this option is a preferred choice.

A display with writing capabilities
For clients who use PCs for writing, this option includes an LFD with writing software. It can be connected to the display with a USB cable. This option is well-suited for those who write on a PC and interact with others.

Figure 2. Features offered in the MagicIWB (Interactive White Board) solution suit various educational or business needs.
Deliver impactful presentations with powerful interactive tools.

A range of display sizes
Clients can choose from various size displays equipped with overlay touchscreens. This option includes writing software that connects to the displays through a USB cable from the client’s PC. For clients who have a broad range of lecture room sizes, this choice provides the flexibility to select the best display size for each location.

The ability to use displays as collaboration and business tools
Clients can use the displays to collaborate and perform various business functions. This option includes MagicInfo™-I Premium signage software along with the overlay touchscreen and writing capability in cases where the clients use the Samsung Setback Box (SBB). Clients who want to display specific messages during lecture or meeting breaks typically choose this option.

In addition, multiple learning and presentation modes are provided for enhanced impact. Choices include:

- **Individual exploration.** Students or attendees can conduct self-directed research.
- **Digital sharing.** All participants can exchange information.
- **Presentation.** Content is displayed for dynamic visualization.
- **Collaboration.** Individuals and groups can work together to achieve a common goal.

Communicate and share information brightly and clearly
Integrated into smart meeting room, Samsung LFDs and the MagicIWB (Interactive White Board) solution provide new and different business environments for conferences and meetings.

Once strictly limited to signage, LFDs now take the place of projectors in a variety of business applications. With innovative advances in touchscreen technology, picture quality and energy efficiency, LFDs are a better, clearer and more cost-effective alternative to projectors. LFDs deliver high-quality images without the distortion, blur or glare inherent in traditional projectors.

The result is productive, distraction-free presentations that provide:

- Reduced light scatter and reflection
- Broader color contrast ratios and deeper blacks
- Sharper, smoother pictures, even when images are moving at high speeds
- Brighter picture quality
- Virtually no visual distortion

Figure 3. Samsung advanced LED display technology provides possibilities for a more productive and smarter work and meeting environment.
Collaborate with an interactive touchscreen option

For added versatility, the LED displays can be transformed into e-Boards with the simplified installation of an optional overlay touchscreen. The overlay touch option uses infrared (IR) touch technology and provides a six-point simultaneous touch experience. A special antiglare film covers the surface of the overlay for a smooth writing surface and a real handwriting feel. Included with the overlay touchscreen are two Touch Pens and Samsung MagicIWB (Interactive White Board) software. Also included is a pen tray that incorporates one upstream and two downstream USB ports. The displays can also be linked together to create an interactive video wall.

Support an engaging, interactive experience

Global expansion of data sharing and innovations in interactive technologies are changing the way people gather and assimilate information. As a result, businesses and educational institutions are seeking ways to use these technologies to enhance the learning and presentation experience. The MagicIWB (Interactive White Board) solution helps facilitators deliver rich content in a dynamic new way that encourages participants to interact.

The MagicIWB (Interactive White Board) solution provides:

**An enhanced viewing experience**
Capture students’ and attendees’ attention with a bright, clear, FHD-quality, antiglare screen with a wide viewing angle.

An advanced, digitally interactive environment
Embellish lessons or presentations with clip art, themes and icons from Samsung MagicIMS (Interactive Management Solution) Content Library.

More accurate presentations
Control and interact with content more easily using the intuitive touchscreen that responds to the touch of a finger or Touch Pen.

Full e-classroom functionality
Gain direct access to e-books, CDs, videos, animations, images, PowerPoint presentations and Internet content.

Magnification, concealment and highlighting capabilities
Manipulate on-screen information using these modification features.

Drawing and on-screen note-taking
Draw and take notes on the screen while PowerPoint files, videos, images and Adobe® Flash® animations are displayed. Drawings and notes can be saved for future use.

Run multiple programs simultaneously
Work in various software applications at the same time.

Encourage participation and file sharing with rich content.
Create a lasting impression with the power of digital technology.

**Lecture and teach with a robust architecture**

MagicIWB (Interactive White Board) provides an enhanced presentation experience by playing a variety of media content, including PowerPoint presentations, images, videos and Flash animations. The whiteboard can be used as a notebook device or for drawing functions using an assortment of pen styles and colors.

Video Capture and Image Capture features facilitate the sharing and storing of presentations or class content. Magnifier and Spotlight features enable part of the screen to be highlighted, magnified or resized. The FileViewer feature can be used to read documents created on the interactive whiteboard and to preview tasks currently being performed on the screen. Each content page can be moved, copied or deleted while displayed in thumbnail view on the screen. Documents can also be printed using this mode.

MagicIMS (Interactive Management Solution) software connects teachers’ and students’ or presenters’ and attendees’ devices to encourage interactive communication. Presenters and participants can share files and other materials. In addition, teachers and presenters can control students’ or attendees’ devices during sessions. These features are enabled by the MagicIMS Agent program installed on students’ or participants’ devices.

Assorted writing and drawing tools enable the whiteboard to be used as a notebook device and shared with others.

Teachers and students or business presenters and participants can intuitively access a range of content, take digital notes and save the output for later reference. Users can also administer lessons, conduct polls and question and answer (Q&A) sessions or grade exam papers using the Samsung Quiz Tool program.

The solution includes the Classroom Management application for use on the teacher’s or facilitator’s PC to track and control students’ and attendees’ devices.

Figure 6. Magnify images on screen with Magnifier and Spotlight features.
MagicIWB (Interactive White Board)

Features and benefits

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
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<tbody>
<tr>
<td>MagicIWB (Interactive White Board)</td>
<td>Pique interest in presentations with direct access to rich content and interactive tools.</td>
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<tr>
<td>MagicIMS (Interactive Management Solution)</td>
<td>Encourage interactive communication with file sharing connectivity on participants’ tablets.</td>
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<tr>
<td>MagicIMS Agent</td>
<td>Access and share content with attendees with the touch of a finger.</td>
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<tr>
<td>FileViewer</td>
<td>Save time and effort by reading and printing documents from the IWB.</td>
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Enrich lessons and presentations with interactive, hands-on participation

Information-sharing methods worldwide are rapidly evolving. With advances in digital technology happening every day, learning institutions and businesses are uncovering powerful ways to enhance the education and communication process.

The low-quality and high-maintenance costs of traditional information delivery methods, such as projectors, make these methods ineffective for today’s classrooms and meeting rooms. Samsung MagicIWB (Interactive White Board) offers superior-quality display technology and dependability, resulting in reduced operating costs.

Equipped with touchscreen technology and powerful collaboration tools, Samsung MagicIWB (Interactive White Board) represents a smart choice over traditional communication methods. The solution gives teachers and facilitators the power to deliver dynamic, engaging lessons and presentations that leave a lasting impression while enhancing the learning experience.

Specifications

<table>
<thead>
<tr>
<th>Components</th>
<th>Requirements</th>
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<tbody>
<tr>
<td>CPU</td>
<td>2.5 GHz Intel® Core 2 Duo or higher</td>
</tr>
<tr>
<td>Memory</td>
<td>2 GB or greater</td>
</tr>
<tr>
<td>Graphics card</td>
<td>Microsoft DirectX® 9 supported (An external graphics card is recommended.)</td>
</tr>
<tr>
<td>Display screen resolution</td>
<td>1,280 x 1,024 or higher (Recommended monitor resolution is 1,920 x 1,080.)</td>
</tr>
<tr>
<td>Operating system</td>
<td>Windows 7 / Windows 8</td>
</tr>
<tr>
<td>Others</td>
<td>Microsoft Office (PowerPoint) Needed to display PowerPoint files on the interactive whiteboard</td>
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<tr>
<td></td>
<td>Adobe Acrobat Reader® 9 Needed to display PDF files on the interactive whiteboard</td>
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<tr>
<td></td>
<td>Audio, video codec Needed to play video files on the interactive whiteboard</td>
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<tr>
<td></td>
<td>USB (web) camera driver Needed to display images from the camera on the interactive whiteboard. Users must install the appropriate driver for the USB camera that will be used.</td>
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<tr>
<td></td>
<td>Windows system version must support the same language that will be used. Needed to avoid communication problems</td>
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<tr>
<td></td>
<td>Internet Explorer® 6.0 or higher Needed to access Internet content</td>
</tr>
<tr>
<td></td>
<td>Microsoft Areo® mode Needed to prevent a decrease in drawing speed when using Windows, depending on the touch device used</td>
</tr>
</tbody>
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Legal and additional information

About Samsung Electronics Co., Ltd.

Samsung Electronics Co., Ltd. is a global leader in semiconductor, telecommunication, digital media and digital convergence technologies with 2011 consolidated sales of US$143.1 billion. Employing approximately 222,000 people in 205 offices across 71 countries, the company operates two separate organizations to coordinate its nine independent business units: Digital Media & Communications, comprising Visual Display, Mobile Communications, Telecommunication Systems, Digital Appliances, IT Solutions, and Digital Imaging; and Device Solutions, consisting of Memory, System LSI and LED. Recognized for its industry-leading performance across a range of economic, environmental and social criteria, Samsung Electronics was named the world’s most sustainable technology company in the 2011 Dow Jones Sustainability Index. For more information, please visit www.samsung.com.

For more information

For more information about the Samsung MagicIWB (Interactive White Board) solution, visit www.samsunglfd.com.

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Samsung Electronics Co., Ltd.
416, Maetan 3-dong,
Yeongtong-gu
Suwon-si, Gyeonggi-do 443-772,
Korea

www.samsung.com

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