Legal and additional information

Samsung MagicIWB (Interactive White Board) solution

A flexible, efficient and engaging presentation solution for business and learning environments

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For more information

For more information about the Samsung MagicIWB (Interactive White Board) solution,
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BROCHURE

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:
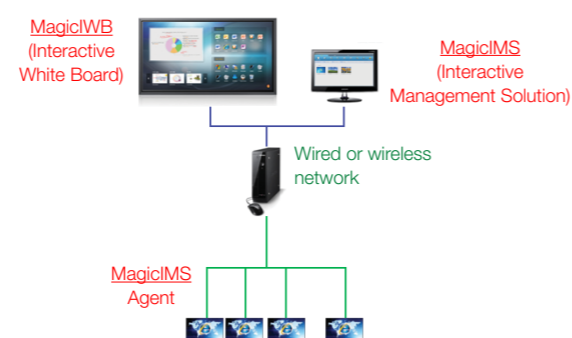

Figure 1. The software deployment diagram for the MagicIWB (Interactive White Board) solution.

MagicIWB (Interactive White Board)
MagicIWB is powerful software that provides simplified, direct access to e-books, CDs, videos, 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.

MagicIMS Agent
MagicIMS Agent provides touch-sensitive optical technology, enabling interaction between the electronic whiteboard and attendees' PCs or tablets. Combined with MagicIWB 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.

Choose from an array of elements to suit specific needs

The MagicIWB solution provides a range of features tailored to fulfill 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.

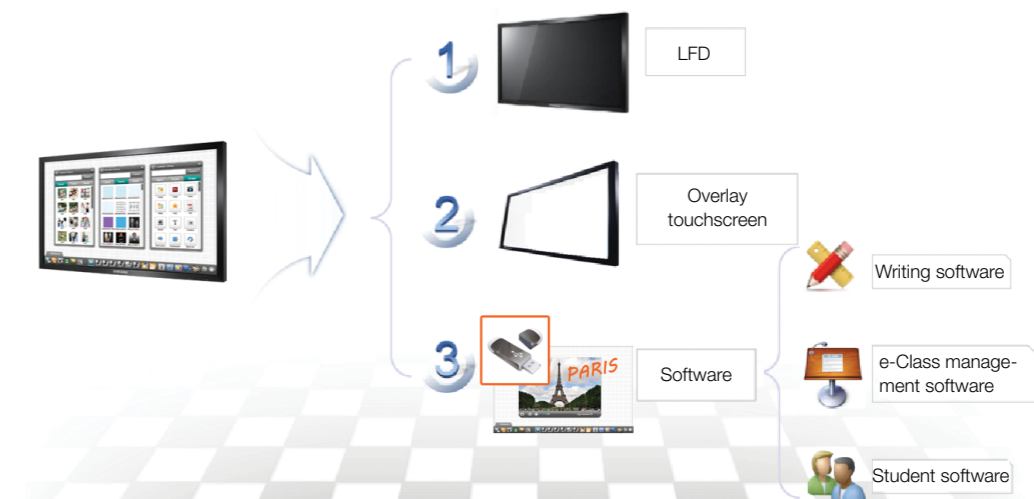*Figure 2. Features offered in the MagicIWB (Interactive White Board) solution suit various educational or business needs.*

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.
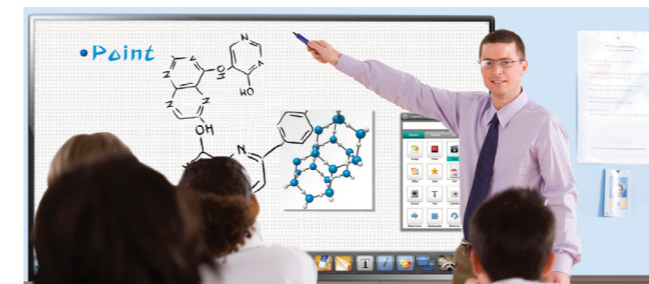

Figure 4. Displays can be transformed into e-Boards with optional overlay touch-screens and Touch Pens.

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 solution provides:

An enhanced viewing experience

Capture students' and attendees' attention with a 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 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 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, 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.

Figure 5. Draw and write on the screen with drawing tools or a mouse and add content using the Content Libraries.

Create a lasting impression with the
power of digital technology.

MagicIWB (Interactive White Board)

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.

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.
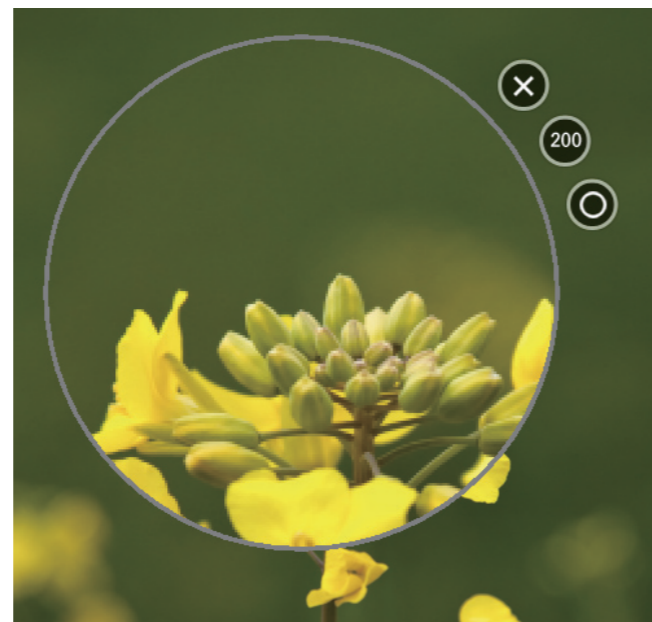
Figure 6. Magnify images on screen with Magnifier and Spotlight features.

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

Features and benefits

Features	Benefits
MagicIWB (Interactive White Board)	Pique interest in presentations with direct access to rich content and interactive tools.
MagicIMS (Interactive Management Solution)	Encourage interactive communication with file sharing connectivity on participants' tablets.
MagicIMS Agent	Access and share content with attendees with the touch of a finger.
FileViewer	Save time and effort by reading and printing documents from the IWB.

Samsung touchscreen technology and powerful collaboration tools empower facilitators to encourage interaction.

Specifications

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

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.