



Interaction Solutions



Interactive
Touch LED

v/s

Interactive
Whiteboard

As South African educational institutions adopt digital transformation, choosing the right interactive technology is crucial. Interactive Touch LED screens are emerging as the next generation solution, moving beyond traditional Interactive Whiteboards.



Interactive Touch LED

Superior Visual Experience

Interactive Whiteboard

- Provides a high-definition display with vibrant colours for a more engaging visual experience, and enhancing student interaction.
- **No Projector Required** eliminating shadows, glare and interrupted visibility.

v/s

- **Dependent on Projectors** which can lead to issues like bulb burnout, shadows, and image distortion, hindering the learning experience.



Interactive Touch LED

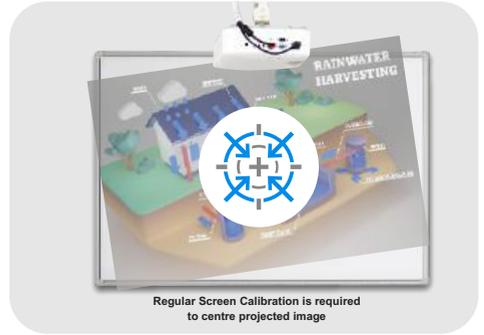
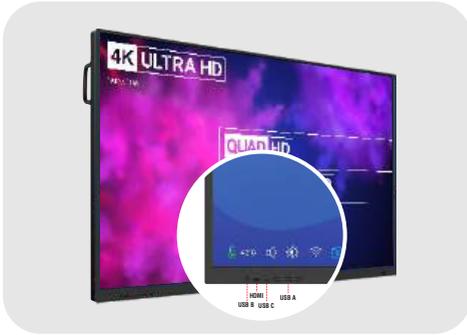
Enhanced Durability and Longevity

Interactive Whiteboard

- **Built for durability** with robust construction & long-lasting LED panels. More resilient to withstand daily classroom use.
- **Reduced overall costs**, LED screens eliminate maintenance cost, bulb replacement, calibrations, making them more cost-effective in the long-term.

v/s

- **Regular Maintenance Required:** Whiteboards and projectors require frequent maintenance, including bulb replacements, re-calibration, and cleaning. This can lead to additional costs and classroom downtime



Regular Screen Calibration is required to centre projected image

Interactive Touch LED

Integration with Modern Technology

Interactive Whiteboard

- **Versatile Connectivity:** offers built-in Android system, seamless device connectivity, and plug-and-play setup for easy use across multiple operating systems in classrooms.

v/s

- **Limited Functionality:** While whiteboards can be effective, they often require external devices and software to access online resources and apps, leading to a more complex setup.



Built-in Android OS



Access to Educational Apps



Access to Cloud Storage



Access to Internet

Compatible with many device:



No Built-in Operating System
Requires external devices to connect resources and apps.



Interactive Touch LED Improved Interactivity & Engagement Interactive Whiteboard

- **Multi-touch capabilities:** Allows multiple students to interact with the screen content simultaneously, encouraging collaborative learning.
- **Enhanced Touch Precision:** The advanced touch technology ensures accurate and responsive interactions for tasks like drawing and writing.

v/s

- **Limited Interactivity:** While whiteboards offer touch capabilities, they often lack the precision that LED screens provide, limiting the scope of interactive activities

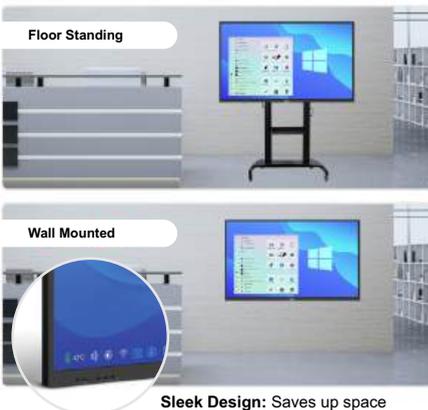


Interactive Touch LED Aesthetics and Space Efficiency Interactive Whiteboard

- **Sleek Design:** Interactive Touch LED screens feature a slim, modern design that saves space and enhances classroom aesthetics
- **Installation Methods:** wall-mounted or placed on mobile stands, offering flexible setup options.

v/s

- **Bulkier Setup:** The combination of a whiteboard and a projector can take up more space and create a cluttered classroom environment.



Challenges and Shortfalls of Projectors in the Classroom

Maintenance and Operational Costs:

- **Frequent Bulb Replacements:** Bulbs have a short lifespan and can be costly to replace, aging bulbs dim affecting image clarity.
- **High Energy Consumption:** Projectors consume more power than LED displays, increasing energy costs.
- **Regular Maintenance:** Requires frequent cleaning and re-calibration, disrupting learning.



Image Quality and Visibility Issues

- **Dim and Washed-Out Images:** Projectors often produce unclear images in bright classrooms.
- **Resolution Limitations:** Lower resolution compared to LED displays, affecting image sharpness and engagement.
- **Shadows and Glare:** Shadows from people and glare from reflective surfaces impact visibility.



Complex and Inconvenient Setup

- **Complex Setup:** Involves multiple components (projector, whiteboard, cables), making setup and management cumbersome.
- **Alignment and Focus Issues:** Requires precise adjustment and frequent re-calibration.
- **Limited Portability:** Moving setups to different spaces is labor-intensive due to multiple components.



Environmental Impact:

- **Noise Distraction:** Cooling fans create noise, which is disruptive in classrooms during study periods & listening to lesson audio.
- **Heat Generation:** Projectors produce heat, potentially making classrooms uncomfortable, especially in warmer climates or in rooms without adequate ventilation



Dependence on External Light Control

- **Sensitive to Ambient Light:** Requires darkened classrooms for optimal image quality. This need for light control can limit classroom flexibility and create an undesirable learning environment.
- **Curtains or Blinds:** Often needed to block light, which can be inconvenient and costly.



Conclusion: Projectors, while traditional, have limitations that affect teaching and learning. Upgrading to Interactive Touch LED screens offers better image quality, ease of use, and lower maintenance, making them a future-proof choice for South African schools.
Upgrade to Interactive Touch LED solutions.