

Expanded E-Reader Displays

ID: 2012-025

Executive Statement:

An innovative software solution that extends eReader displays onto additional screens, enhancing the digital reading experience.

Technology Overview:

This technology revolutionizes the eReader market by addressing the fundamental limitation of small screen sizes on devices such as Kindles and iPads. Through a software-based approach, Expanded E-Reader Displays allow for the extension of an eReader's display onto one or more additional screens. This innovation is particularly beneficial for reading complex materials, such as maps or detailed diagrams, by enabling users to view more content simultaneously without compromising portability or convenience.

Key Advantages:

- Enhances user experience by overcoming the limitations of small eReader screens
- Improves accessibility to complex materials by allowing for simultaneous viewing on multiple screens
- Entirely software-based, making it a versatile solution for existing devices
- Innovative page management techniques, such as "pinning" pages for continuous visibility
- Compatible with a wide range of devices, potentially including market leaders like Amazon's Kindle and Apple's iPad

Problems Addressed:

- Limited screen real estate on traditional eReaders
- Difficulty in engaging with complex materials or documents that require spatial navigation
- The inconvenience of constant page switching for reference materials

Market Applications:

- Consumer electronics, specifically enhancements for existing eReaders

- Reader devices
- Educational tools, offering improved ways to study and engage with textbooks and other learning materials
- Professional applications, such as legal or technical document review, where multiple documents or detailed diagrams are frequently referenced
- Publishing industry innovations, offering new formats and interactive features for digital books