



## DynaVue Display Technology

Unsurpassed outdoor viewability without compromise

- When it comes to outdoor viewability, brighter is not better. Brute force display technologies that use multiple backlights to generate enough light (1,000nits) to overcome direct sunlight are not the quick fix one might think. Although they are a dramatic improvement over standard technology they have many weaknesses that must be considered before selecting a technology for your mobile workforce.
  - Battery life suffers as more power is required to illuminate the display. Poor battery life is often overcome by using low or ultra low voltage processors but these solutions impact performance. A great display must provide great viewability in all conditions without impacting battery life or processing performance.
  - The extra light overpowers the LCD pixels causing dark colors to appear grey and the image to become washed out.
  - Colors lose luminance as the light powers through the display.
  - Contrast Ratio and color saturation are dramatically reduced.
  - It becomes difficult to distinguish fine details such as text and map details.
  - Some notebooks only provide 1,000 nits while the unit is docked in the vehicle leaving the user with much poorer performance when out of the vehicle in direct sunlight
  - Additional CCFL backlights accelerates overall brightness reduction
  - Increased weight to accommodate additional backlights and inverter boards
- For optimum outdoor performance a more sophisticated approach is needed. One that provides superior viewability in all light conditions without compromising battery life and processor performance. The solution... DynaVue Technology
- DynaVue Technology creates optimum outdoor viewability by maximizing direct sunlight contrast ratio rather than trying to overpower sunlight. With DynaVue, customers experience rich luminous colors, dark areas appear darker and fine details are more pronounced. And since it only requires a single backlight, battery life and processor performance are not impacted at all. DynaVue is a sophisticated design approach that considers all work environments and...
  - Optimizes processor performance, battery life and display viewability
  - Provides balance between display brightness and contrast ratio
  - Increases contrast ratio to provides rich color and improves visibility of fine details in all lighting
  - Provide s dynamic color saturation for rich looking images
  - Uses single CCFL to provide up to 500 nits brightness without sacrificing battery performance
  - Less susceptible to heat damage from extra CCFLs
  - Has the same optimal performance on or off dock
  - Keeps overall unit weight down

SEEING IS BELIEVING



Patent Pending

GENERAL DYNAMICS  
Itronix