

EVE Demo Sheet

Photo Booth



In this demo, we showcase the powerful capabilities of our **5th generation Embedded Video Engine (EVE)** and highlight the BT820's versatility in three key areas: **graphics**, **video**, and **touch**.

- **Graphics:** The graphics engine allows for various UI/UX (User Interface/User Experience) elements, such as dynamic sketching, menus, keyboard widget, button widgets, and emoji icons, etc. all of which can be seamlessly overlaid onto live video.
- **Video:** Integrate video input from LVDS RX at a resolution of 1920x1080 and apply multiple real-time effects such as '**Darken**', '**Brighten**', '**Invert**', '**Thresh**', '**Contrast+**', '**Contrast-**', '**Solarize**', '**Posterize**', '**Pseudo-HDR**', '**Advanced Pseudo-HDR**', and '**Combined HDR**'. In addition, it can play back MJPEG video directly from an SD card at 1920x1080 @ 60fps, ensuring smooth, high-quality playback.
- **Touch:** The built-in touch engine supports advanced touch functionality, enabling interactive and responsive controls for UI elements with the help of the unique tagging feature, providing a seamless user experience.

The processed output is displayed via **LVDS TX at a resolution of 1920x1200**, ensuring sharp, vivid visuals. You'll see how the system efficiently manages incoming video streams, applies real-time effects, handles high-resolution video playback, and supports a variety of interactive UI overlays with responsive touch controls.

Whether you're looking to optimize video processing, enhance graphical output, or deliver intuitive touch interactions, this demo showcases the full range of our Embedded Video Engine's capabilities. Let's dive in!