

Systems, Methods, And Media For High Dynamic Range Imaging Using Dead-Time-Limited **Single Photon Detectors**

View U.S. Patent No. 10,616,512 in PDF format.

WARF: P180115US01

Inventors: Mohit Gupta, Atul Ingle, Andreas Velten

The Invention

In accordance with some embodiments, systems, methods and media for high dynamic range imaging using dead-time-limited single photon detectors are provided. In some embodiments, a system for high dynamic range imaging is provided, comprising: an image sensor comprising: a pixels comprising: a single photon detector having dead time td; and a counter coupled to an output of the single photon detector, wherein the counter is configured to increment in response to a signal indicative of detection of a photon output by the single photon detector; and a processor that is programmed to: read out a value stored by the counter after an exposure time has elapsed; and calculate an intensity for the pixel based on the value and the dead time τd .

Additional Information

For More Information About the Inventors

- Mohit Gupta
- Andreas Velten

Tech Fields

Information Technology : Computing methods, software & machine learning

For current licensing status, please contact Michael Carey at mcarey@warf.org or 608-960-9867

We use cookies on this site to enhance your experience and improve our marketing efforts. By continuing to browse without changing your browser settings to block or delete cookies, you agree to the storing of cookies and related technologies on your device. See our privacy policy

