





Zihao W. Wang<sup>1\*</sup> Oliver Cossairt<sup>1</sup> Peiqi Duan<sup>2\*</sup> <sup>1</sup>Northwestern University

RGB cam	vs. event cam
30/60FPS	High speed (1us latency)
~60dB	HDR (120dB)
>1W	Low power (10mW)
HD UHD 4/8k	Low resolution (240x180)
Less noisy	noisy

How does event camera work?



## Proposal: RGB + Event hybrid camera



**Captured data:** regular frame-rate images *and* events

## Input



# Motion model

edge signal

![](_page_0_Picture_19.jpeg)

- image and events

- and events

![](_page_0_Picture_27.jpeg)

(a) Img+events(b) MC events (c) 1×