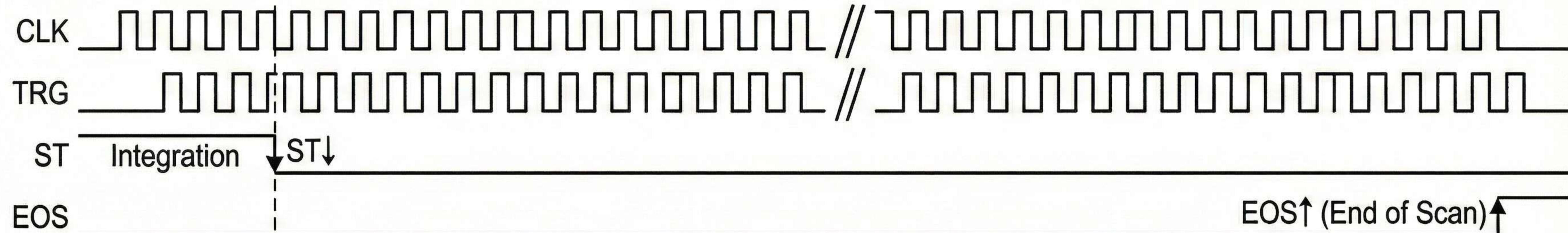
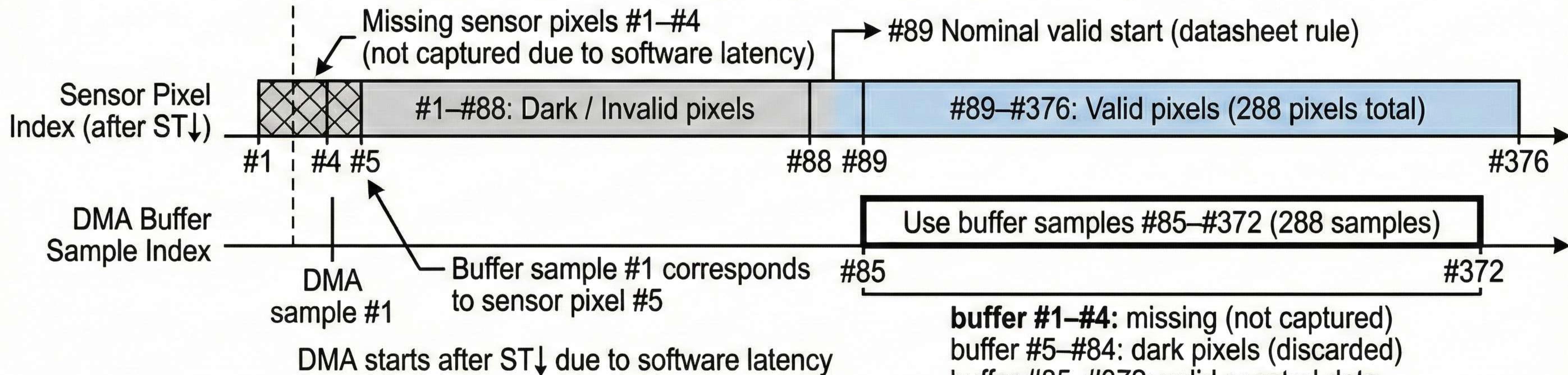


Simplified Timing Diagram



$t = 0, ST\downarrow = \text{sensor pixel index } \#1$

Pixel Index Mapping (Sensor vs. DMA Buffer)



CLK = 5 MHz

DMA length N = 387 samples/frame (fixed-length acquisition)

EOS is used for timing verification; DMA is terminated by fixed length in current implementation.