Supplemental Figure 1: Filtering for noise reduction. This figure shows how two pixels, $p_1 < 0.5$ and $p_2 > 0.5$, are processed by the proposed filter. For $p_1$ (i.e. dark pixel), the sorted array contains pixels \{20, 20, 20, 20, 20, 21, 158, 159, 160\} and 158 is selected to be the new $p_1$. For $p_2$ (i.e. bright pixel), the sorted array contains pixels \{20, 20, 21, 128, 128, 128, 129, 129, 130\} and 21 is selected to be the new $p_2$. 