

IEEE Transactions on Image Processing (TIP)

Reconstructing Interlaced High-Dynamic-Range Video using Joint Learning

Supplemental Material

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Figure 1

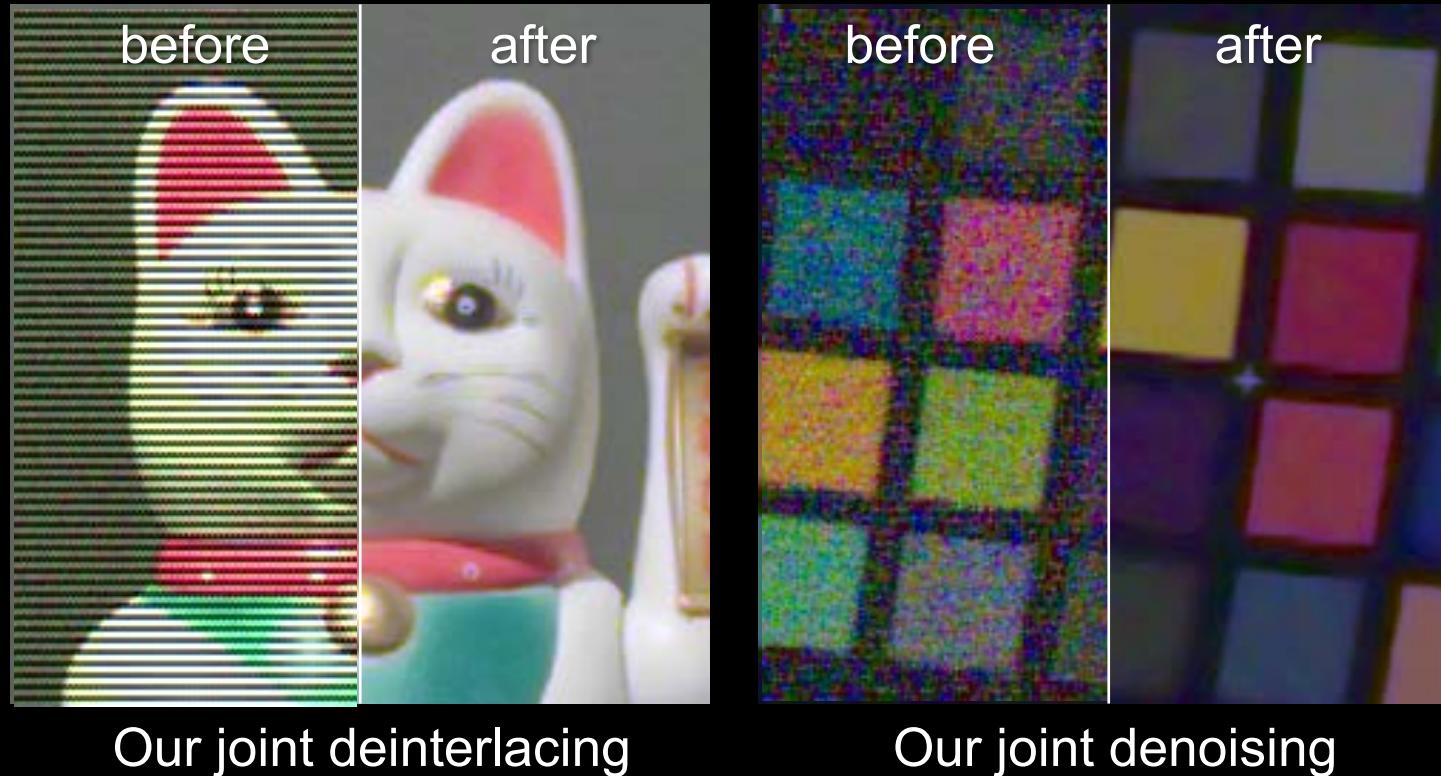
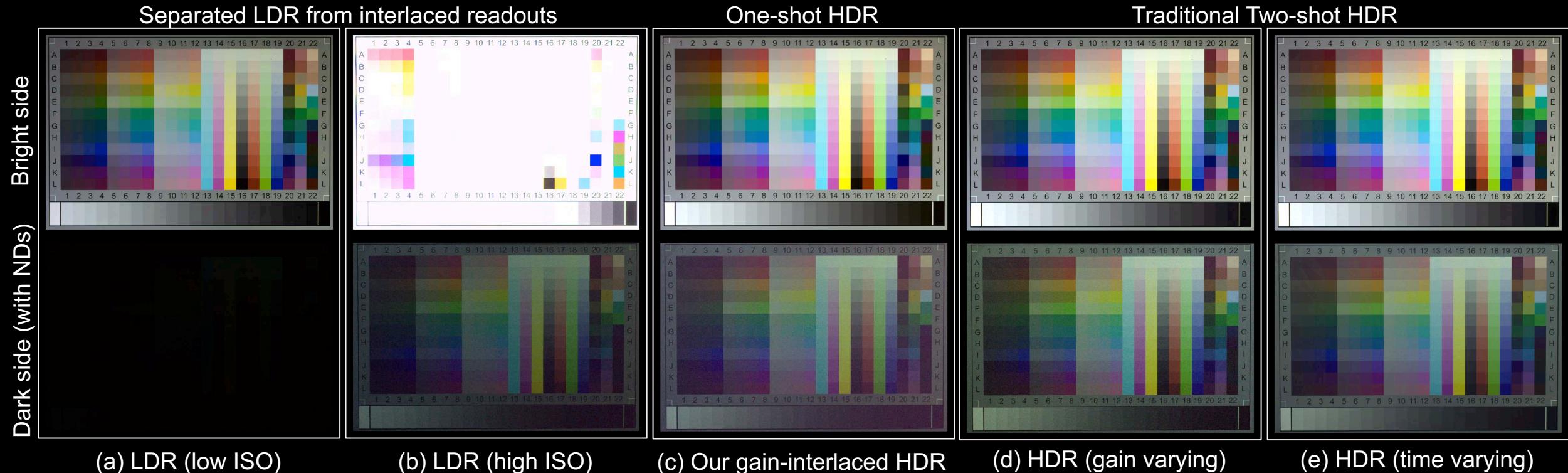
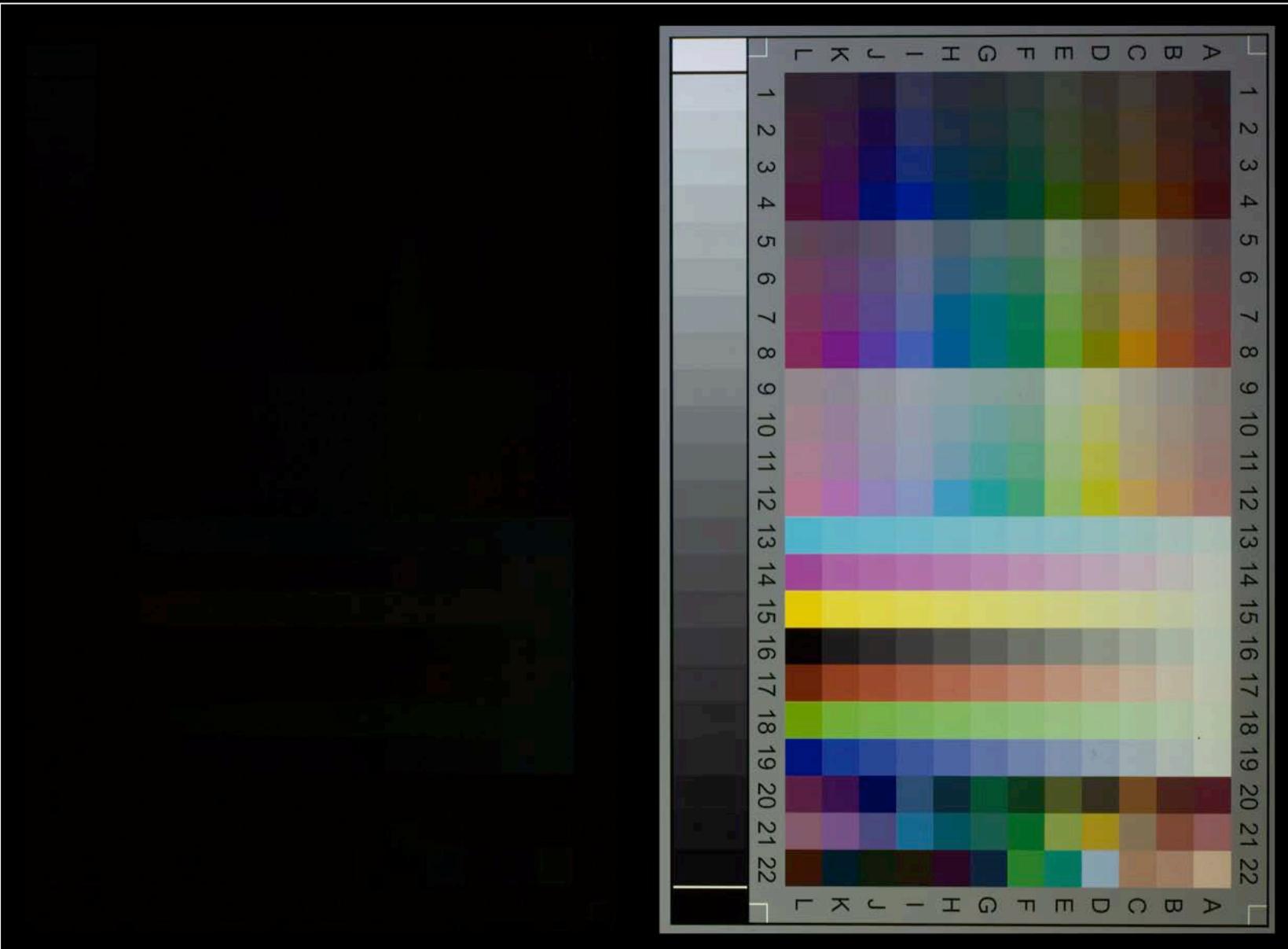
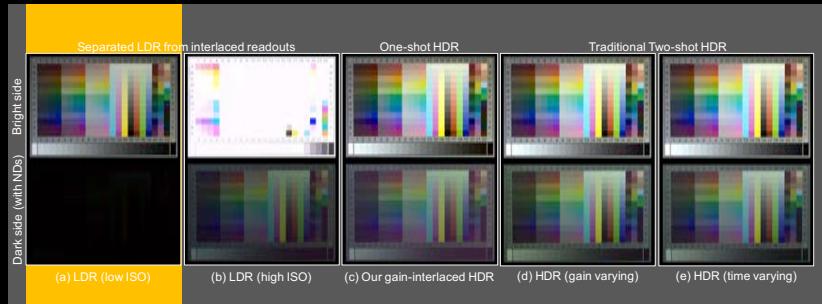


Figure 7



Separated LDR from interlaced readouts

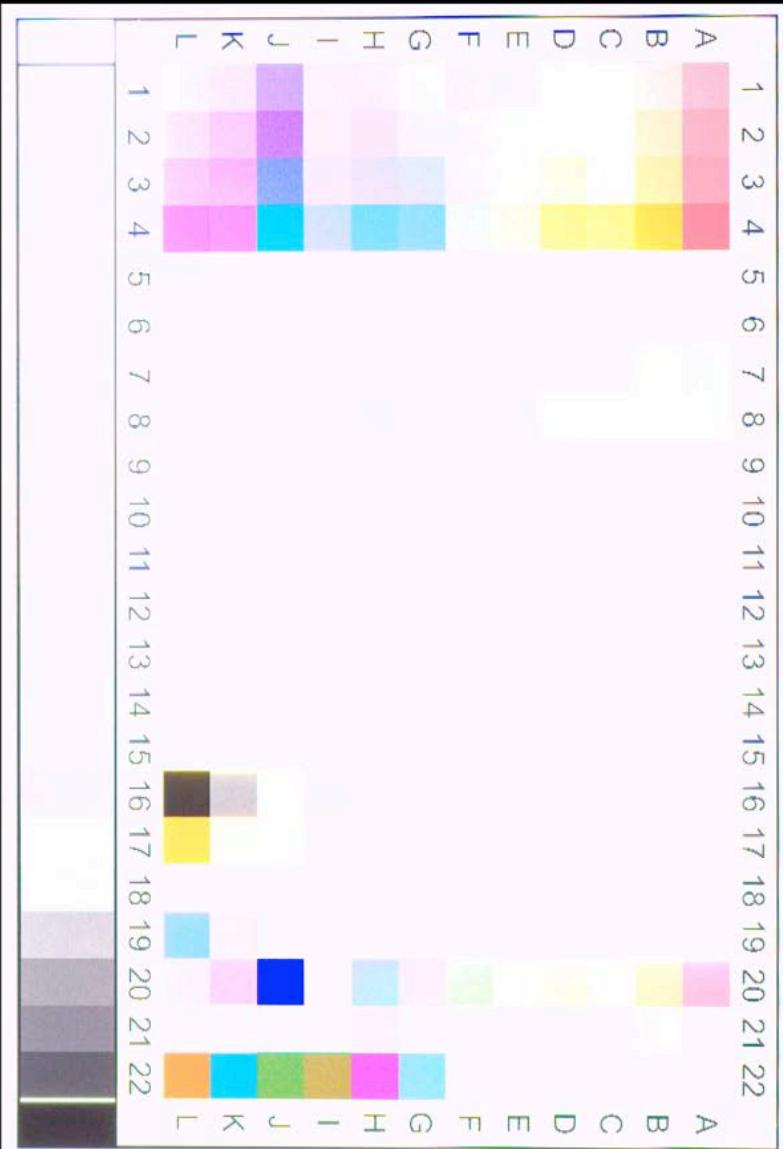
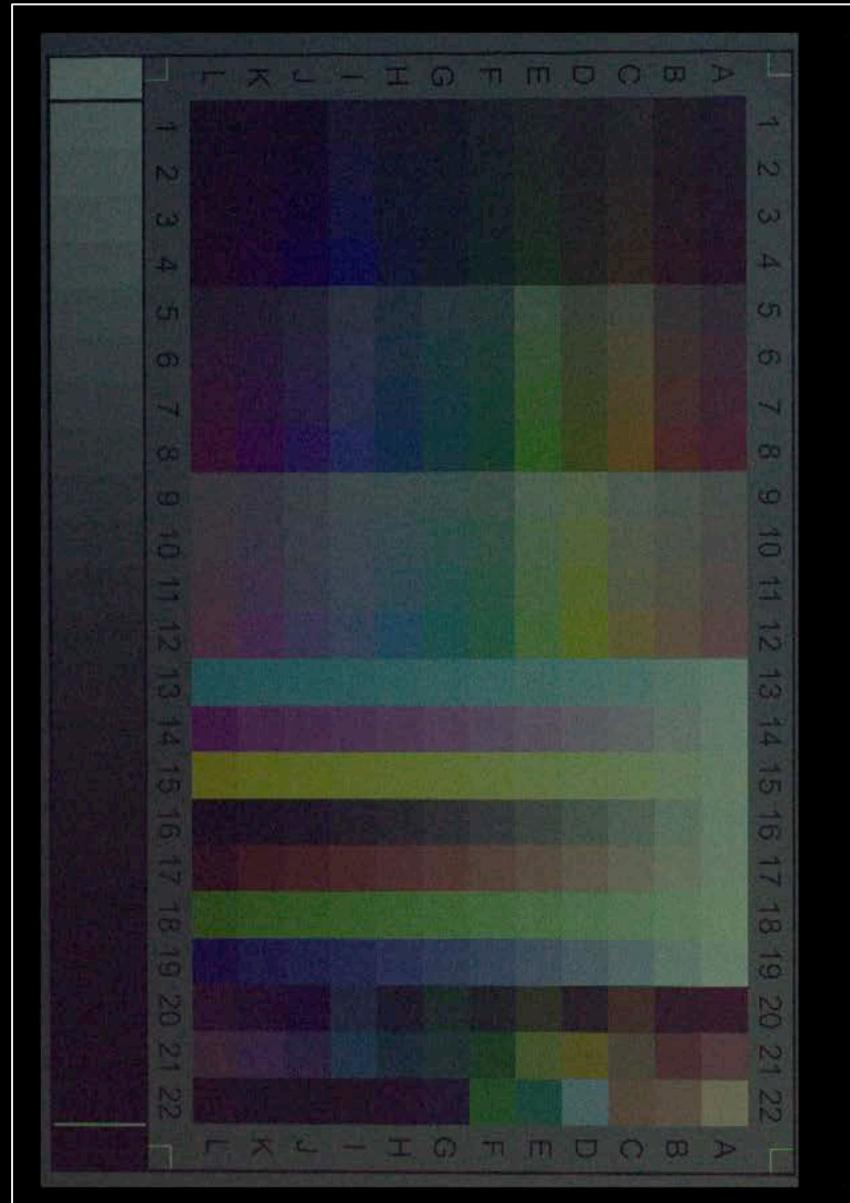
Figure 7
(close-up)



(a) LDR (low ISO)

Figure 7
(close-up)

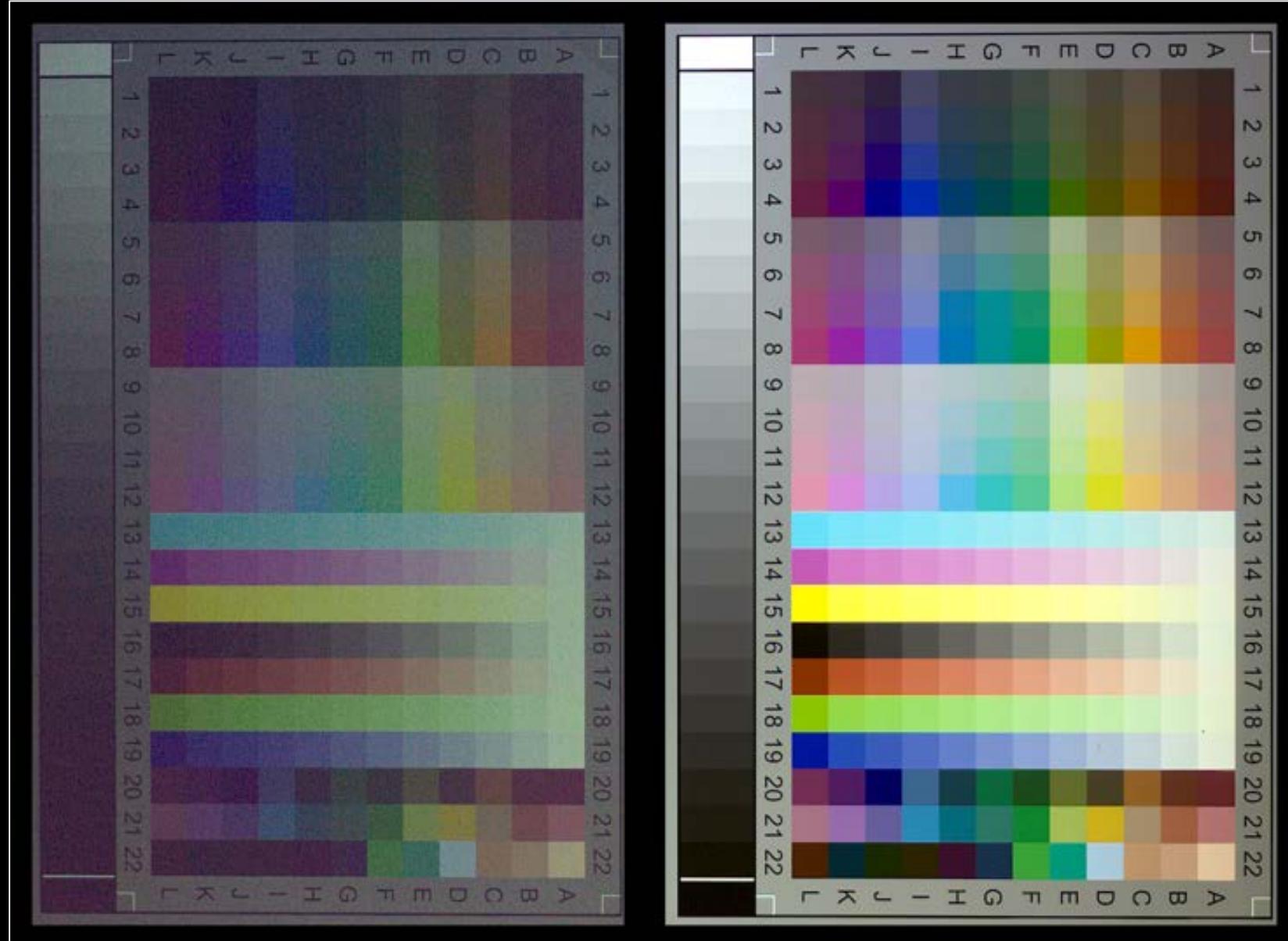
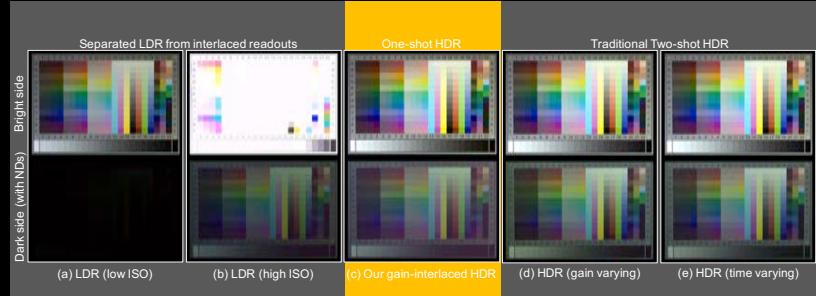
Separated LDR from interlaced readouts



(b) LDR (high ISO)

Figure 7
(close-up)

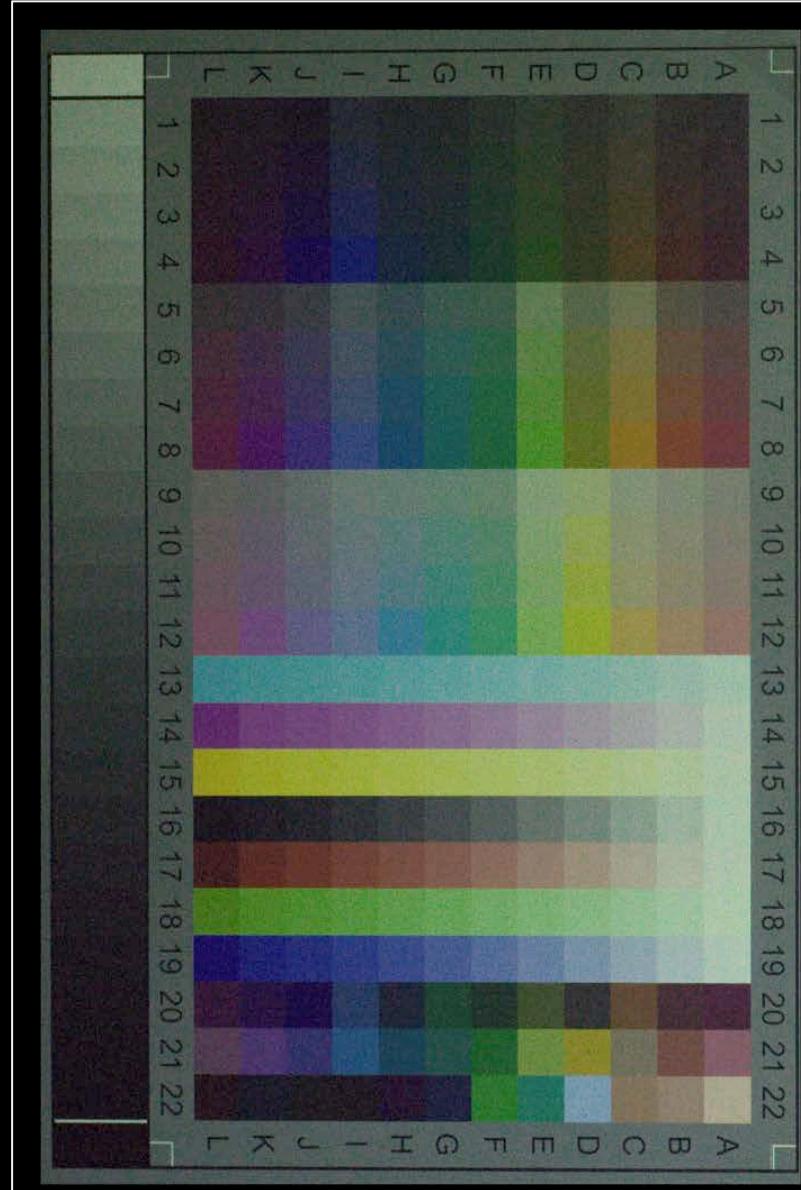
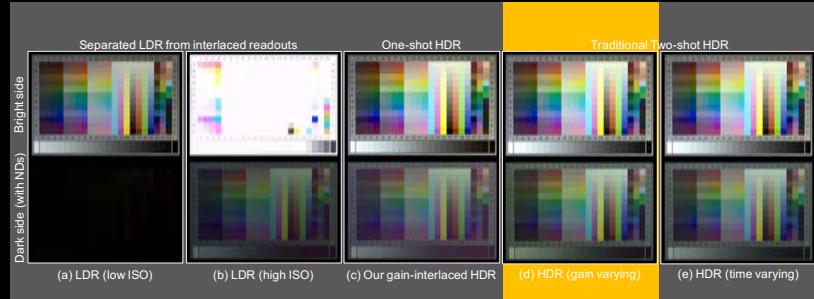
One-shot HDR



(c) Our gain-interlaced HDR

Figure 7
(close-up)

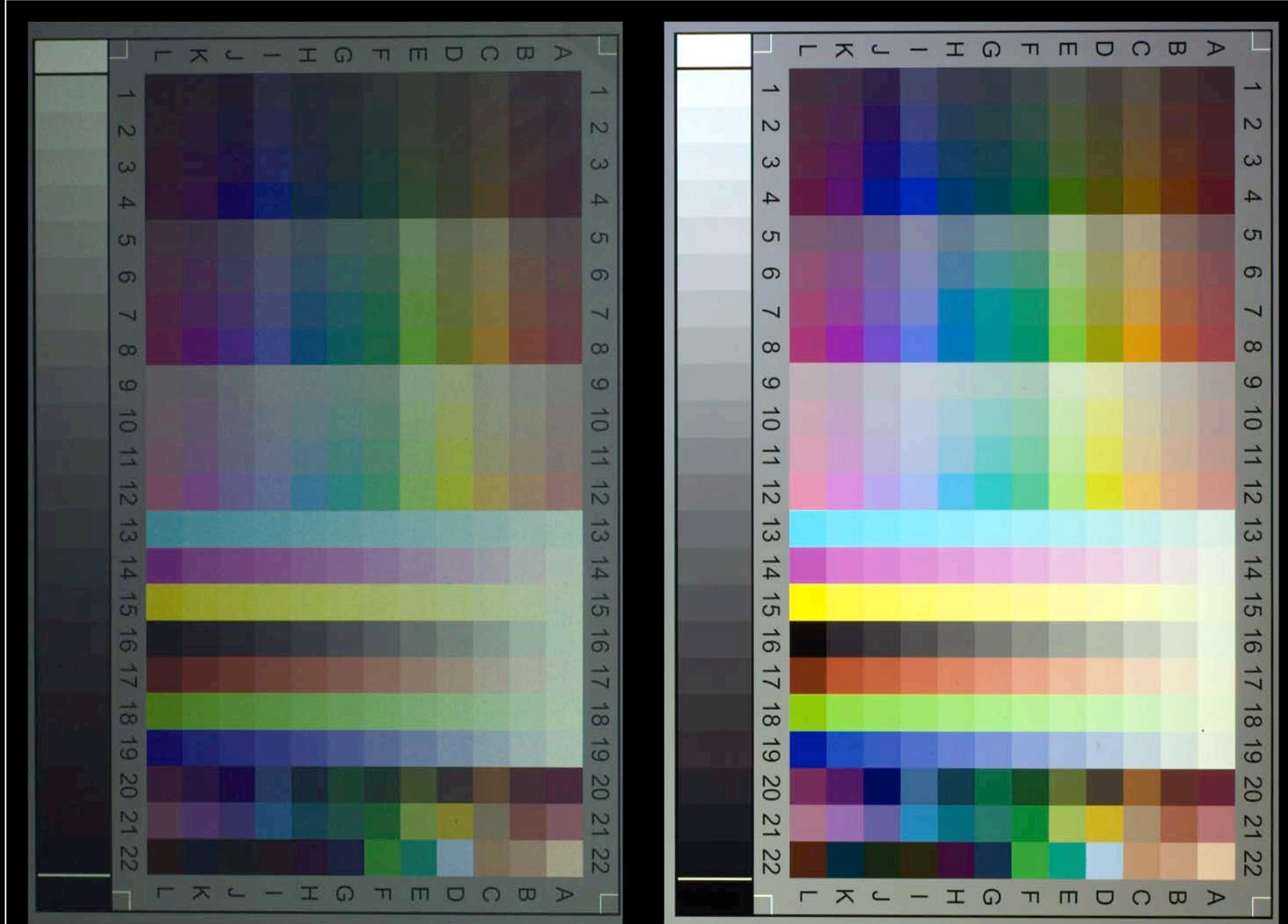
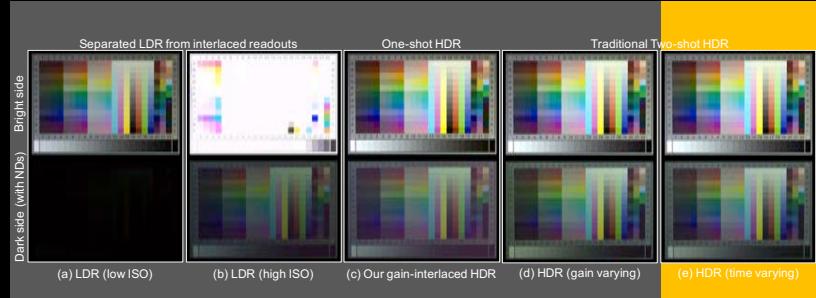
Traditional two-shot HDR



(d) HDR (gain varying)

Figure 7
(close-up)

Traditional Two-shot HDR



(e) HDR (time varying)

Figure 8

Sharpness/noise comparison in interlaced HDR

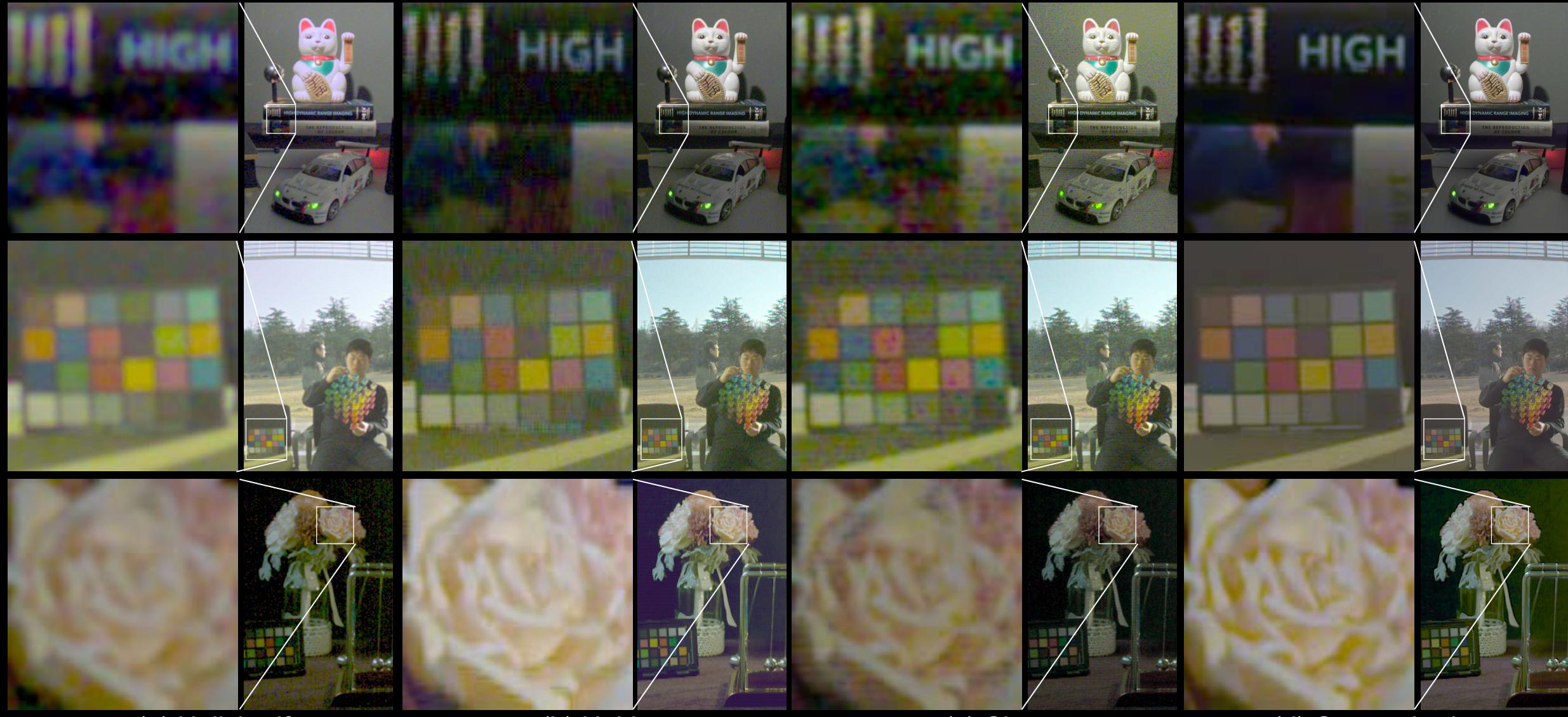
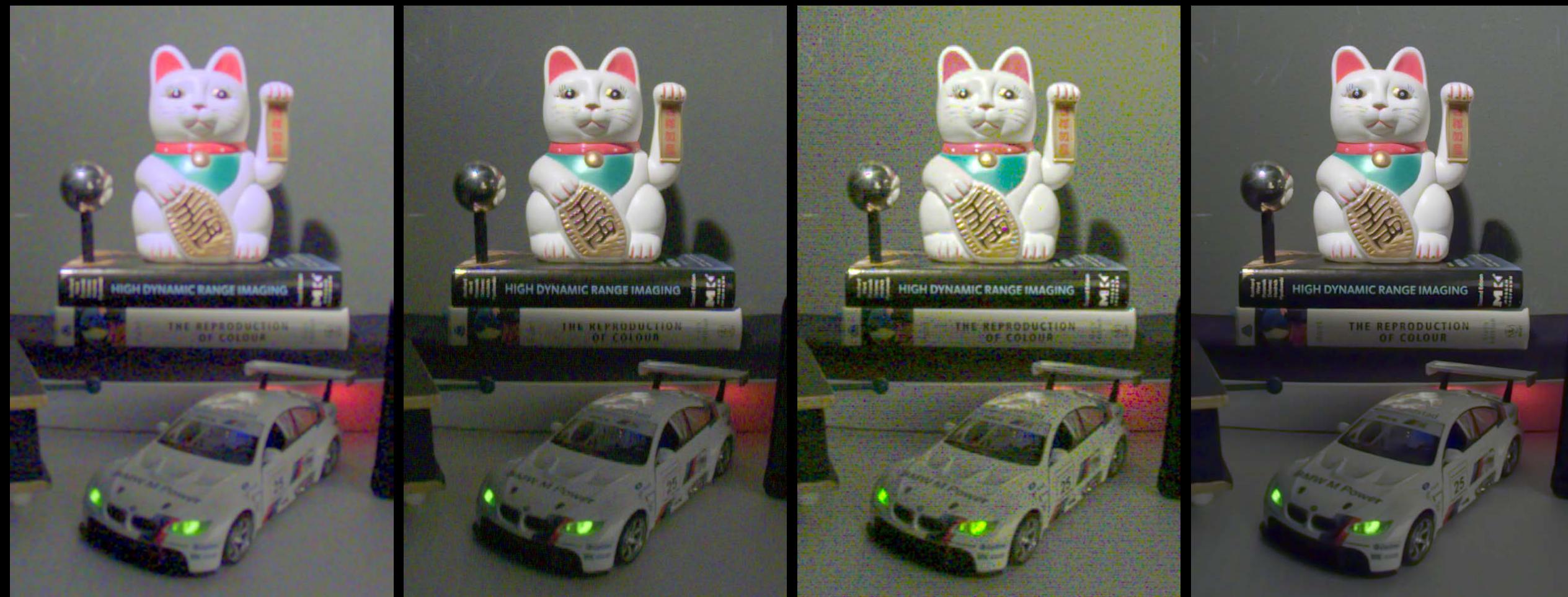


Figure 8 (close-up)



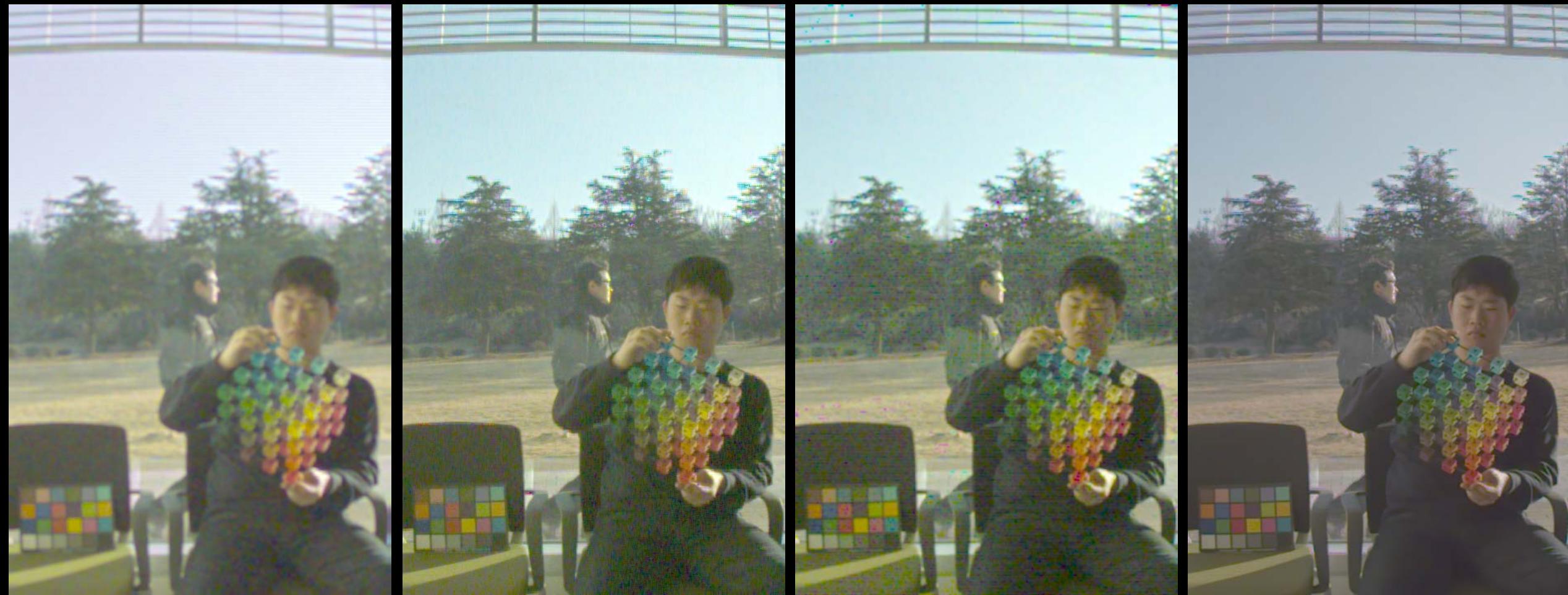
(a) Hajisharif

(b) Heide

(c) Cho

(d) Our method

Figure 8 (close-up)



(a) Hajisharif

(b) Heide

(c) Cho

(d) Our method

Figure 8
(close-up)



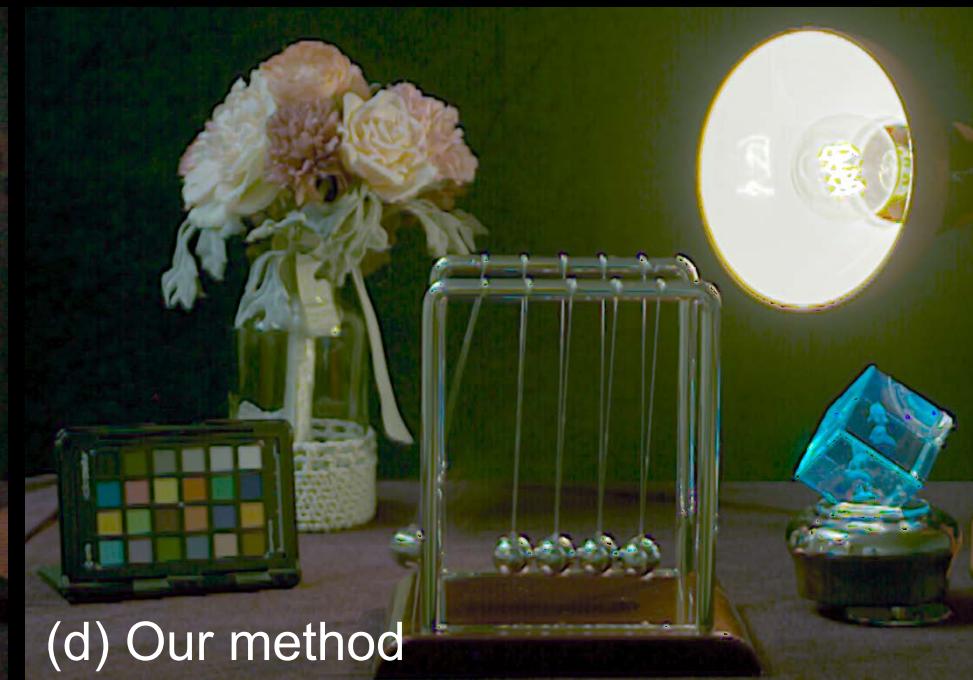
(a) Hajisharif



(b) Heide



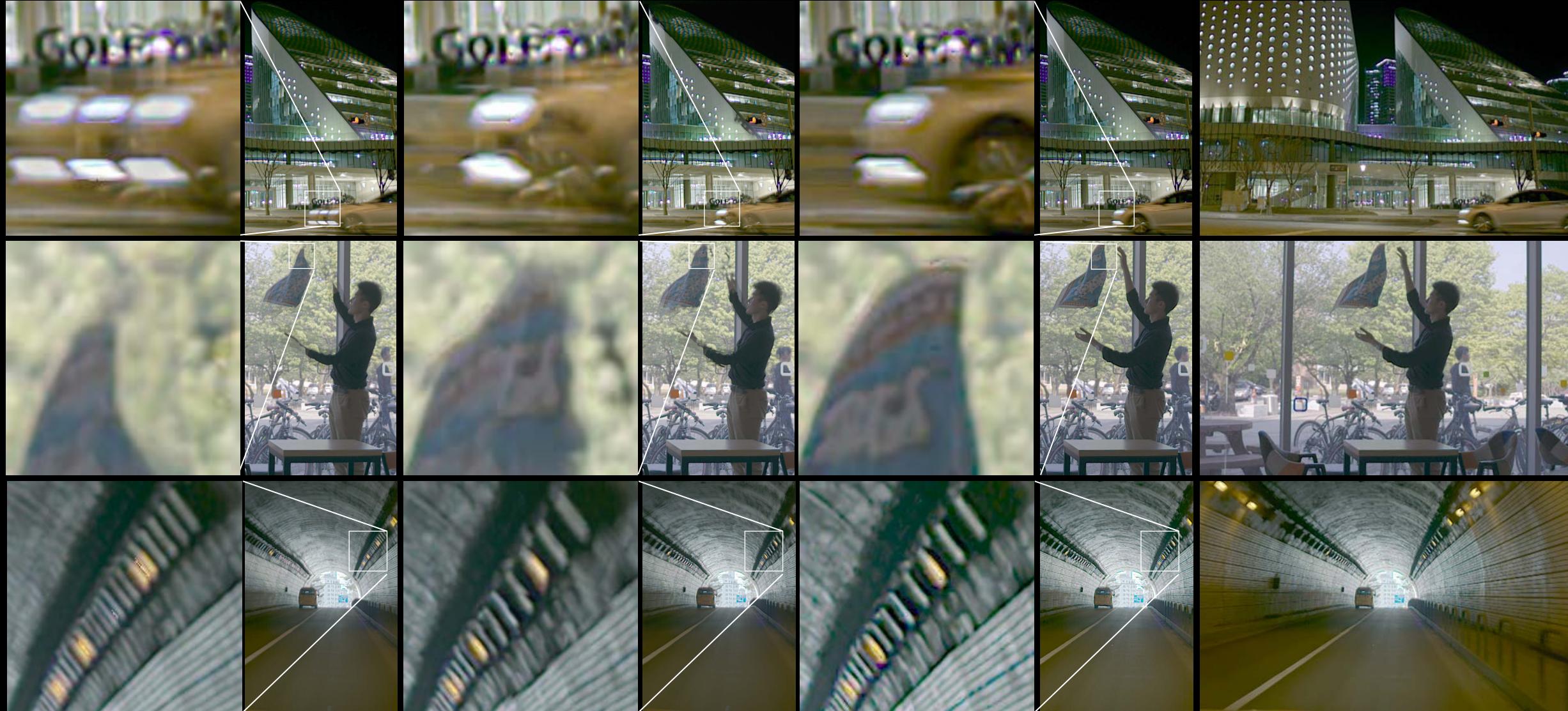
(c) Cho



(d) Our method

Figure 9

Ghosting artifact comparison in HDR video



(a) Kang

(b) Kalantari

(c) Our method

full screen (ours)

Figure 9 (close-up)



Figure 9 (close-up)



(a) Kang



(b) Kalantari



(c) Our method

Figure 9 (close-up)



(a) Kang



(b) Kalantari



(c) Our method

Figure 10



Figure 10
(close-up)

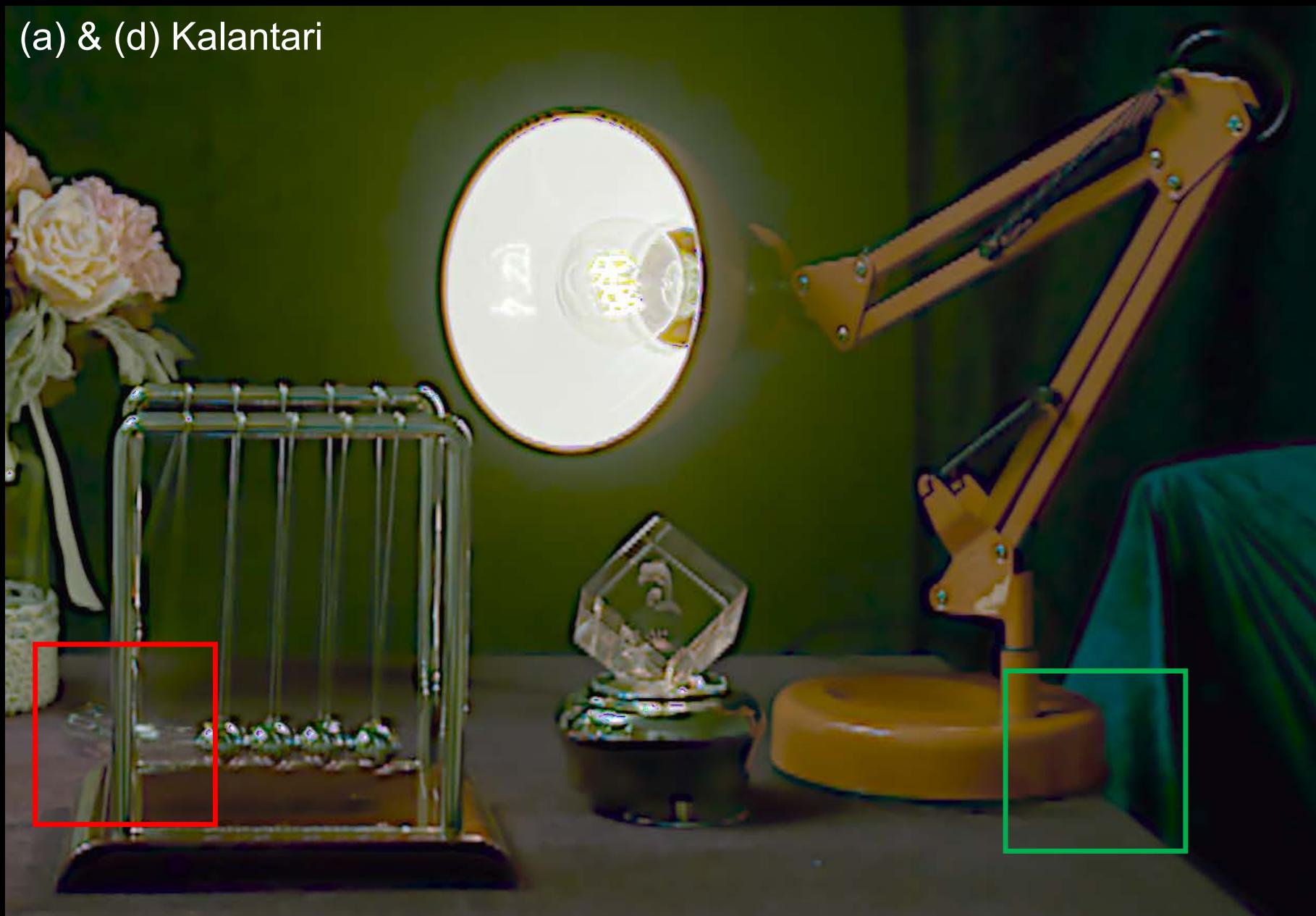


Figure 10
(close-up)

(b) & (e) Liu 2014

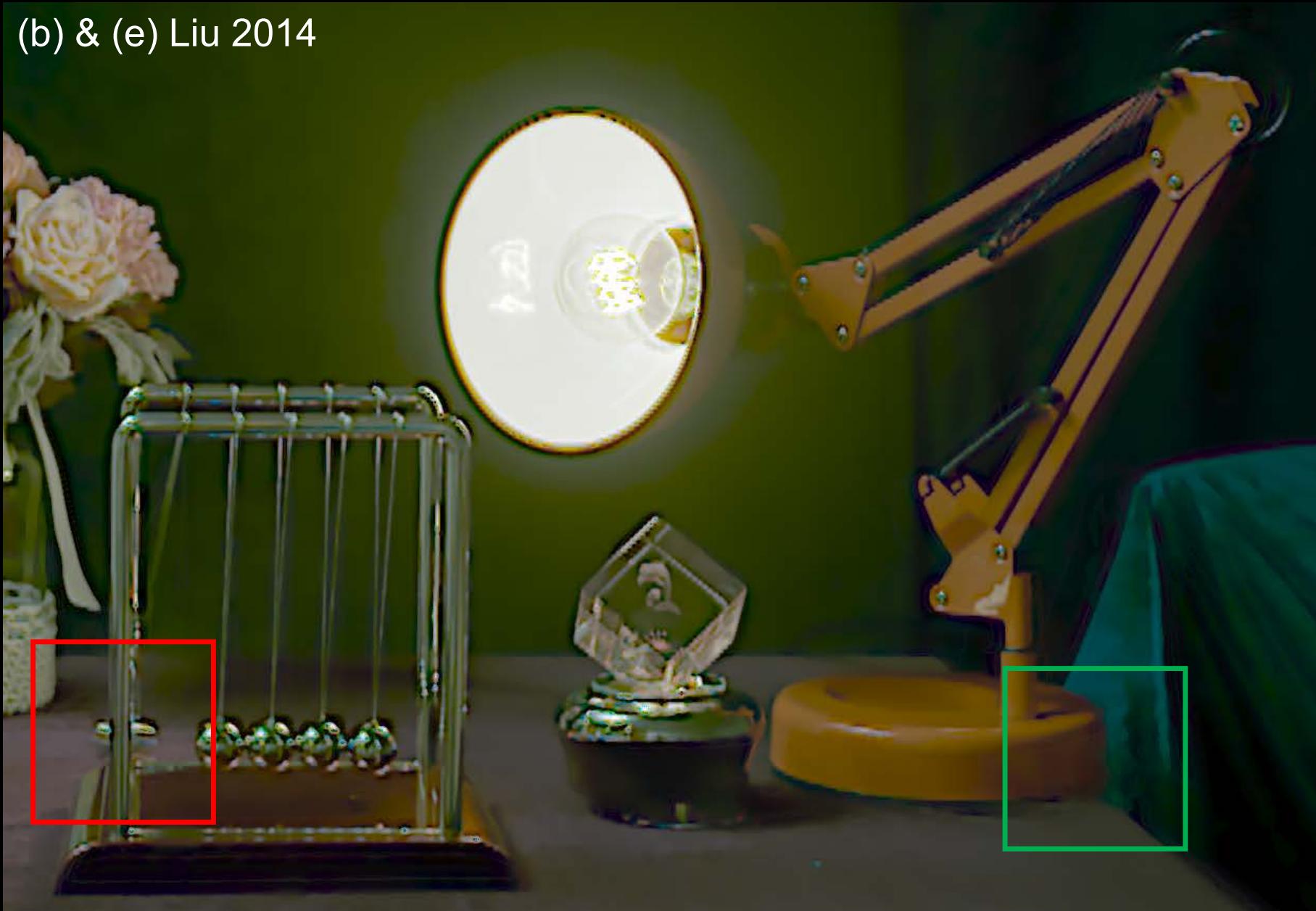


Figure 10
(close-up)



Figure 11

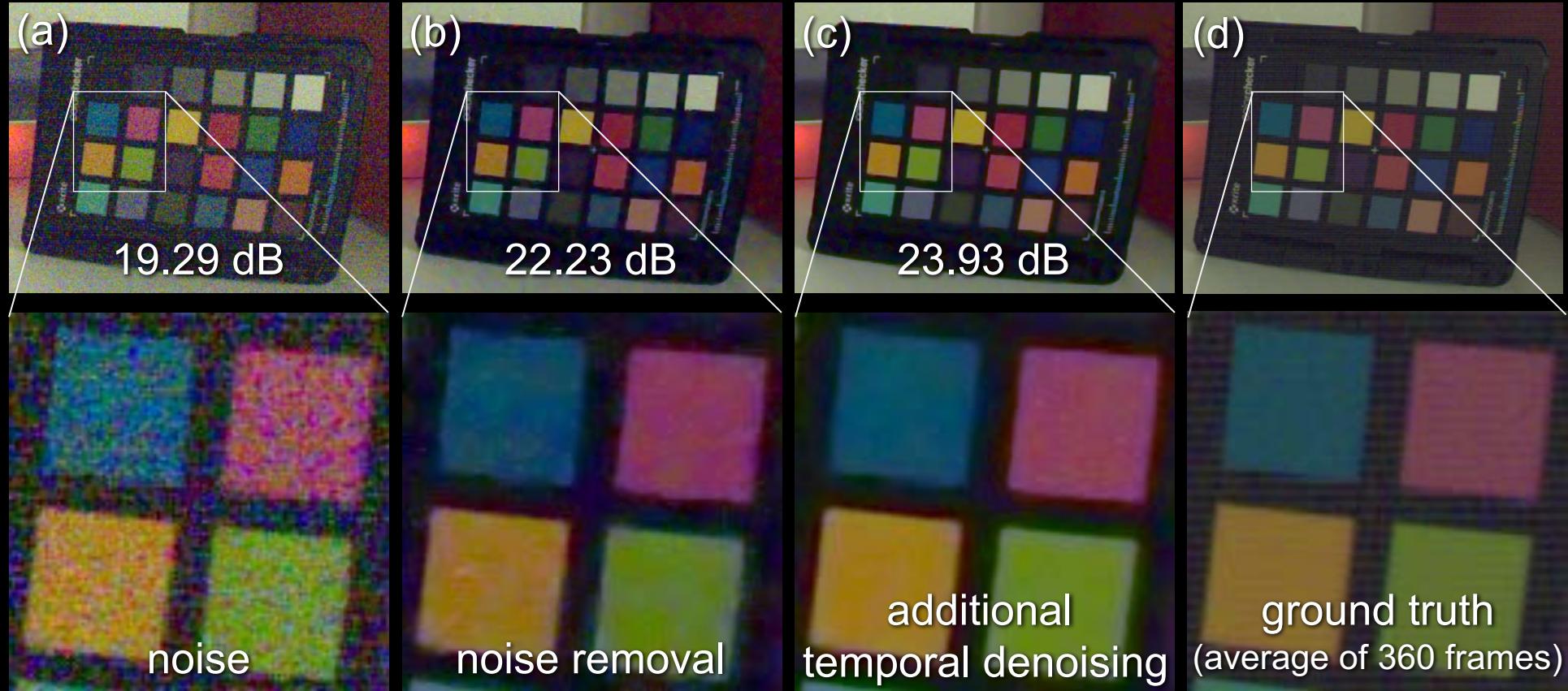


Figure 12

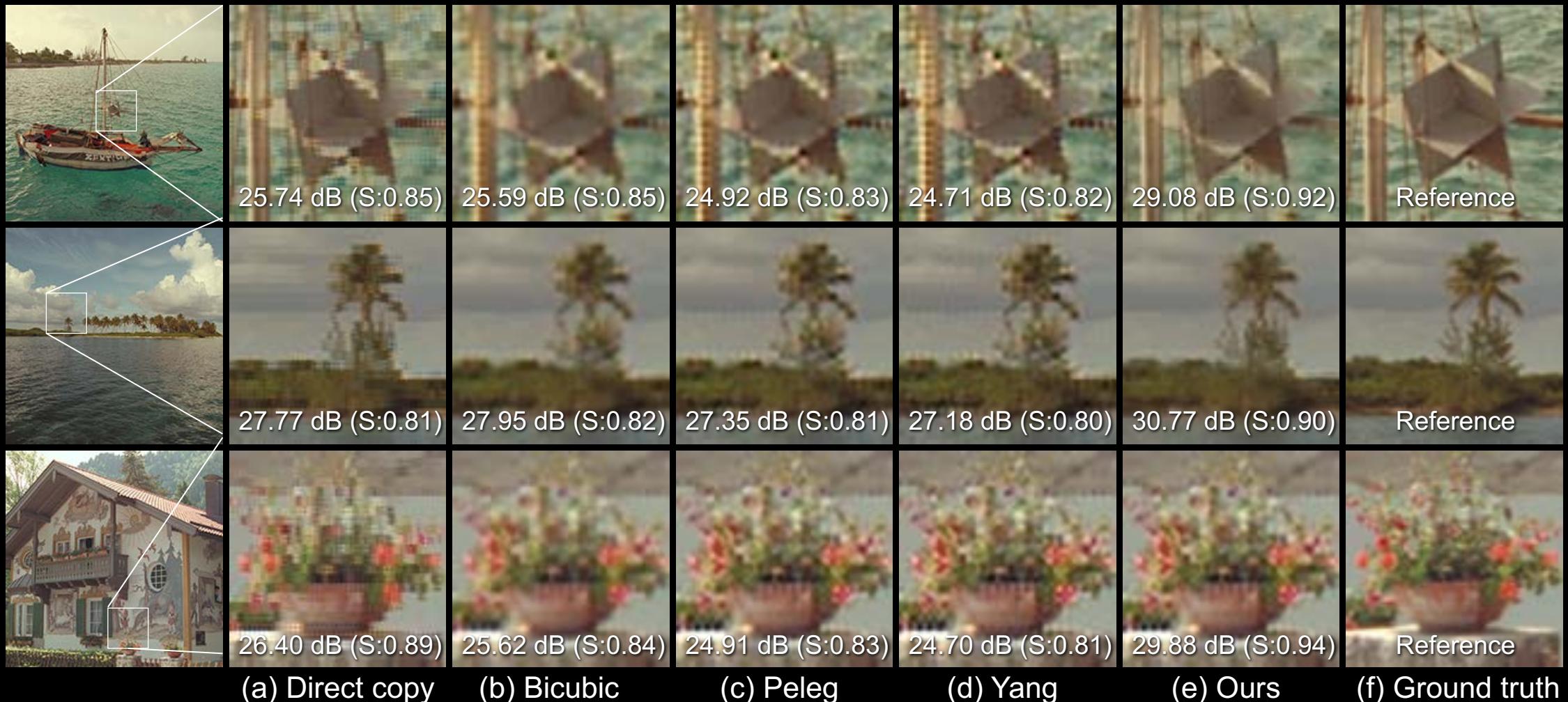


Figure 13

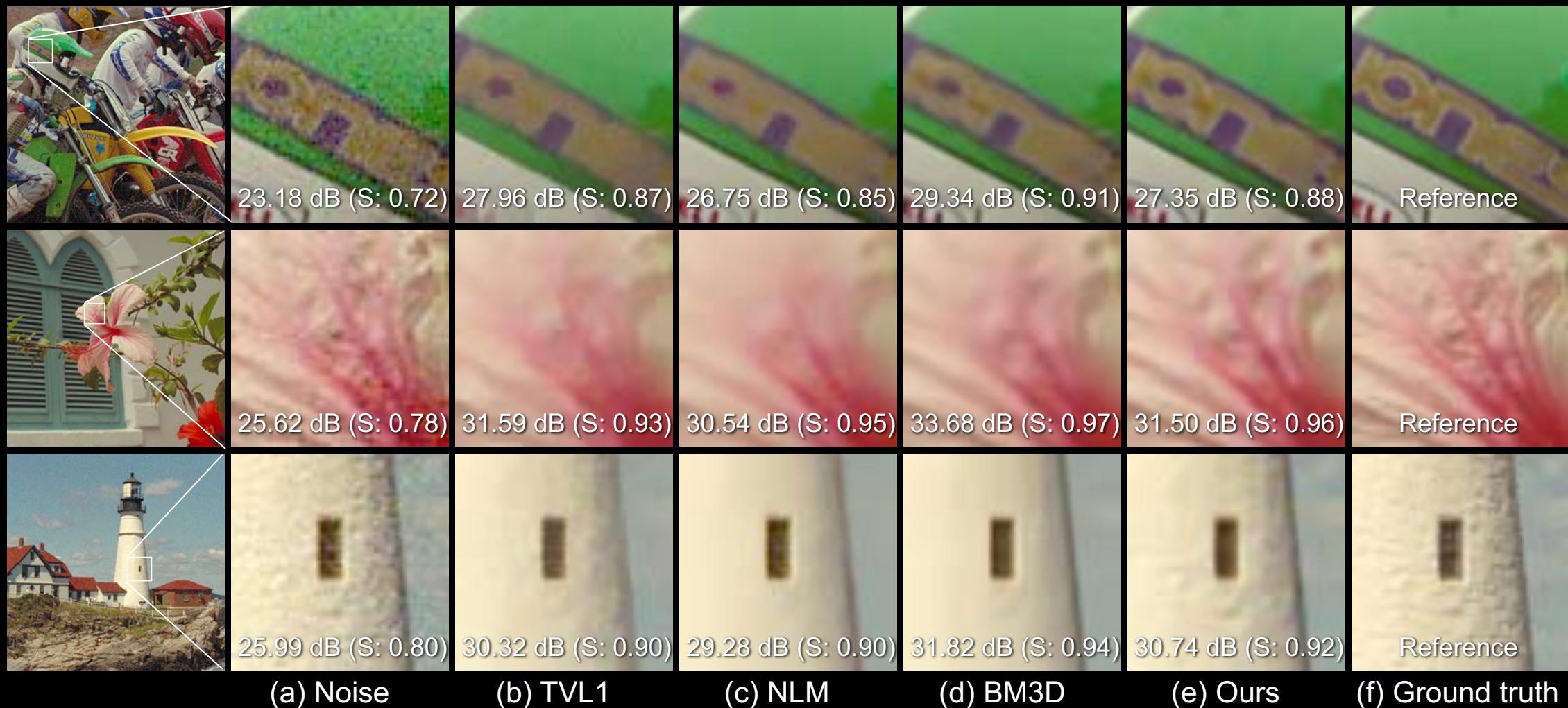


Figure 14

Real noise removal comparison in video

