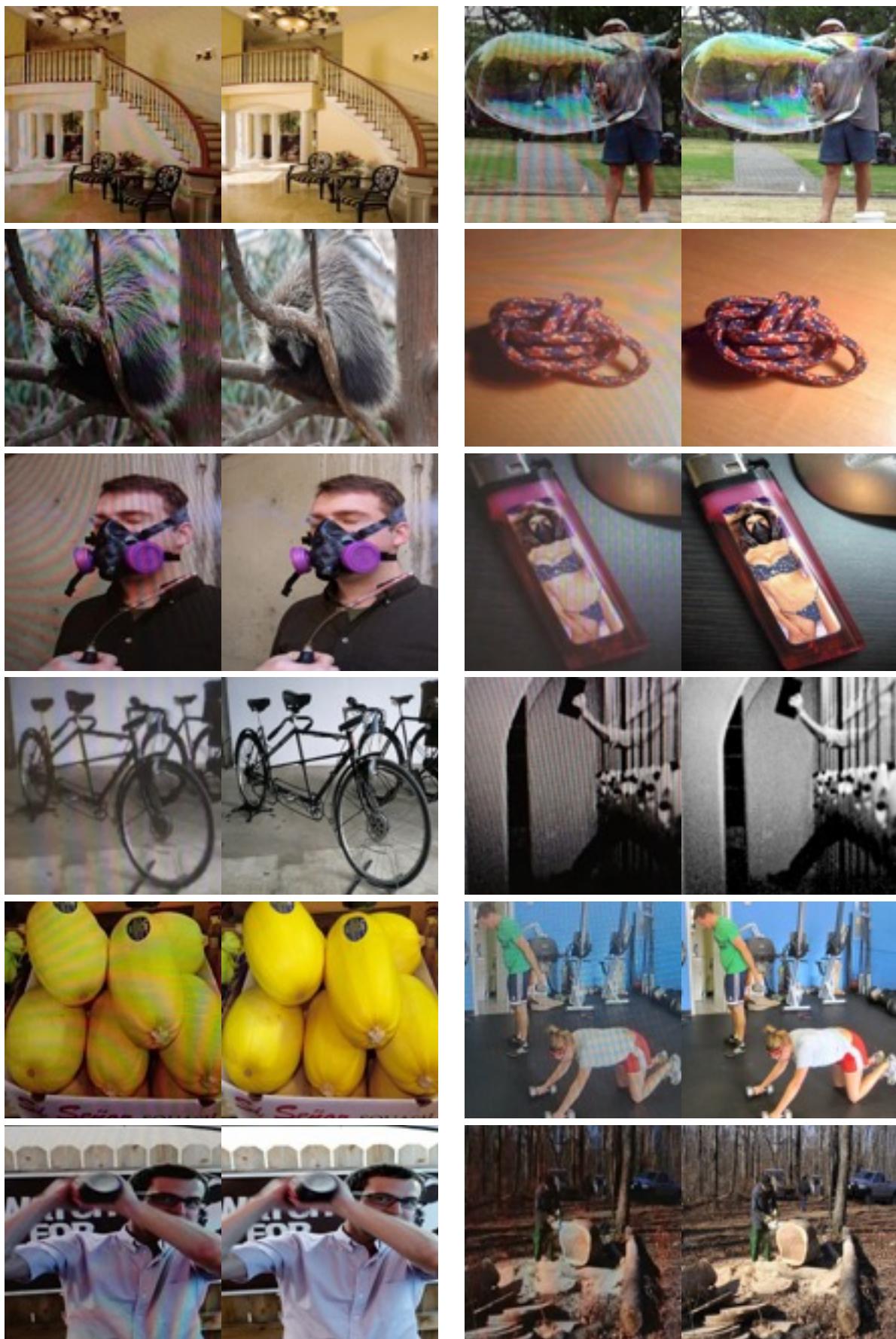


Moiré Photo Restoration Using Multiresolution Convolutional Neural Networks

(Supplemental Materials)

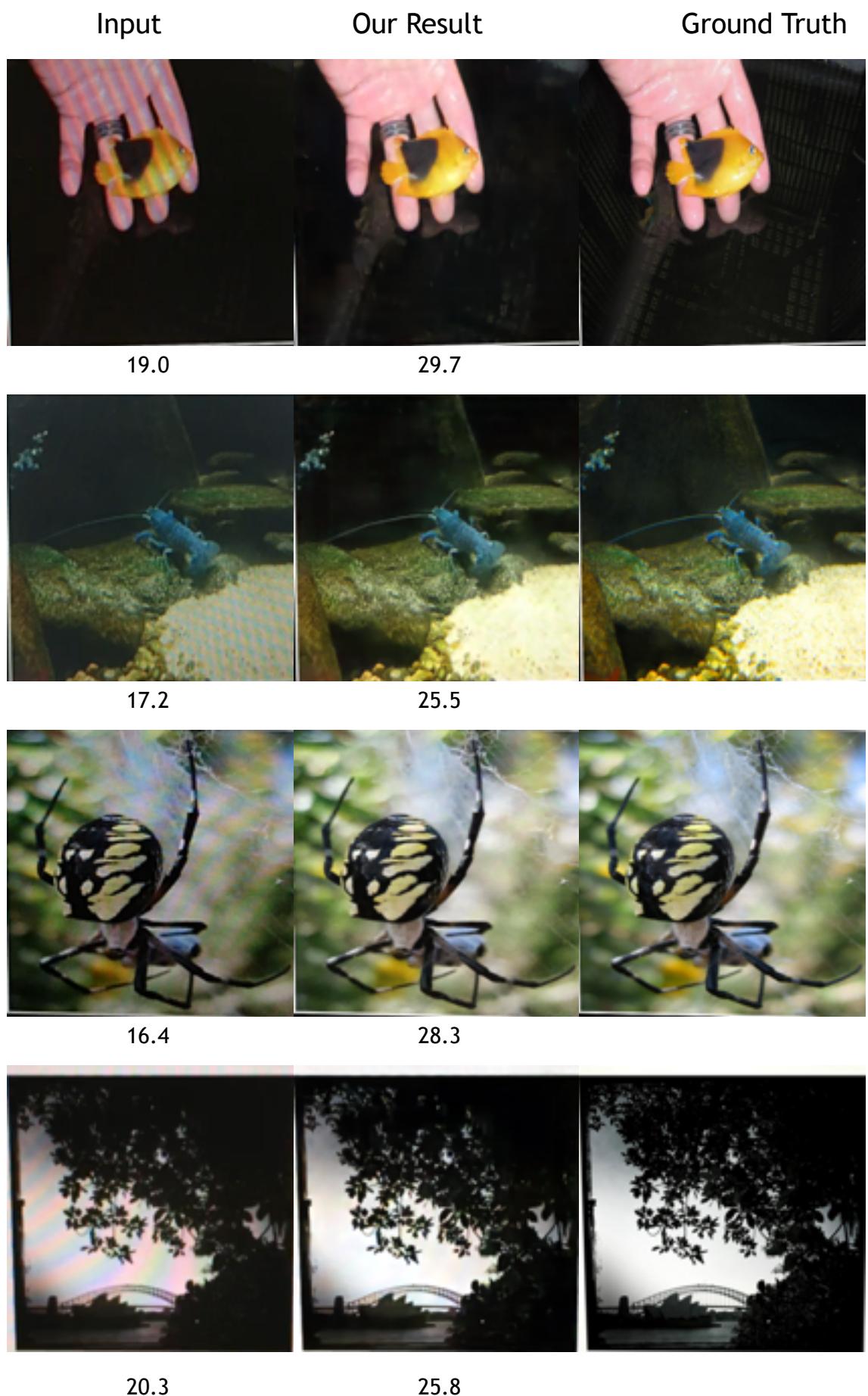
Examples of Training Image Pairs

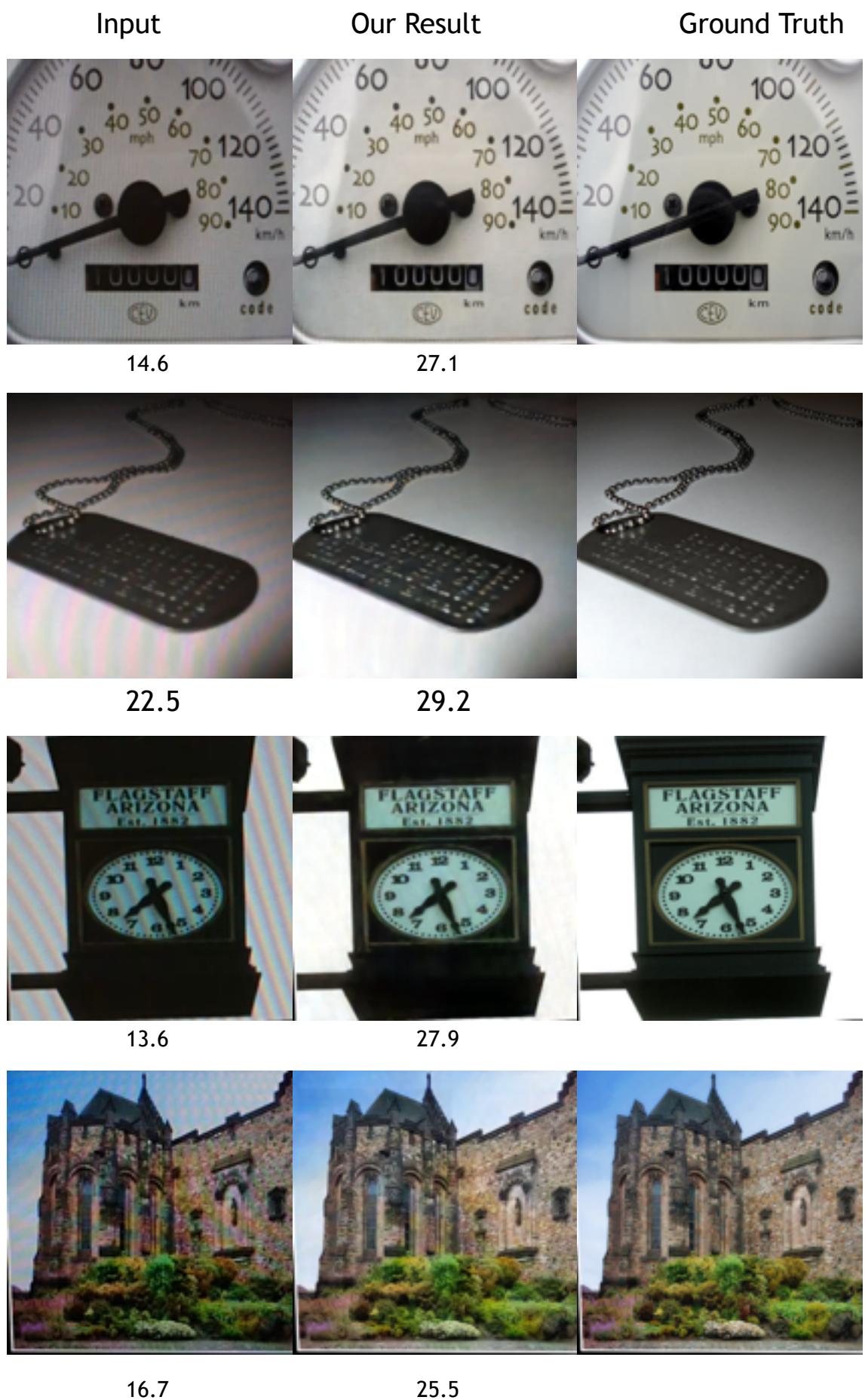




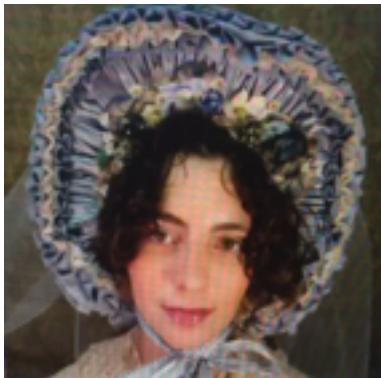


Additional Results from Our Method





Input



22.4

Our Result



27.2

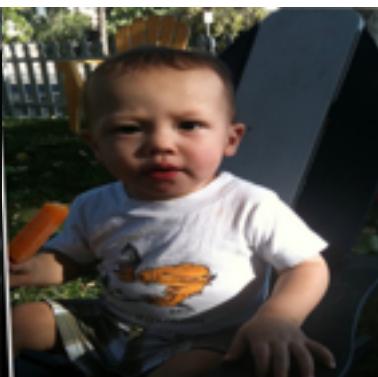
Ground Truth



17.5



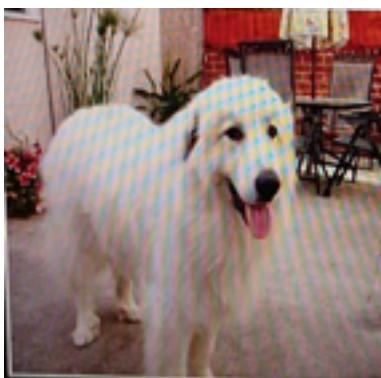
29.5



17.0



28.7

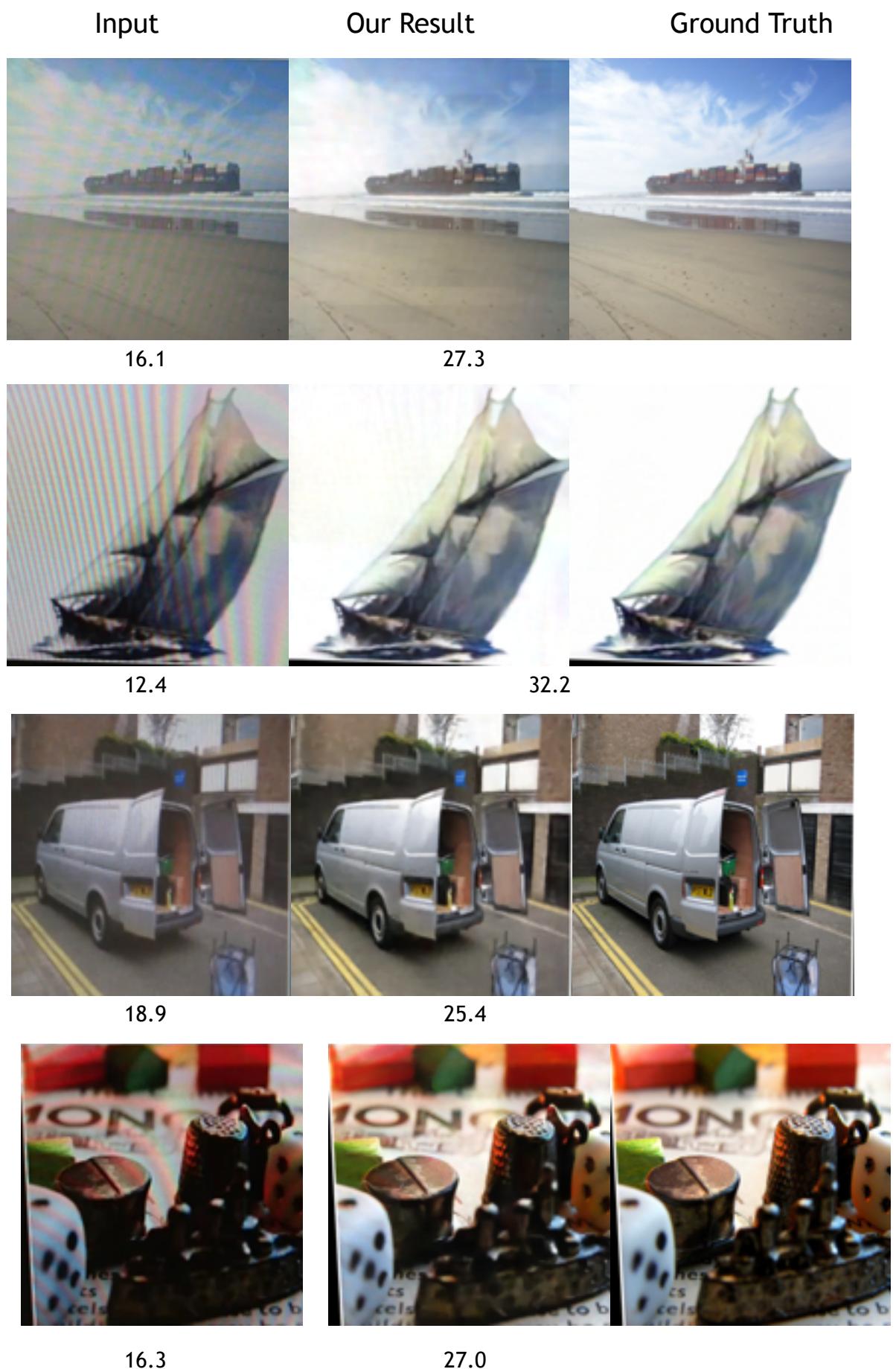


17.2



27.0





Input



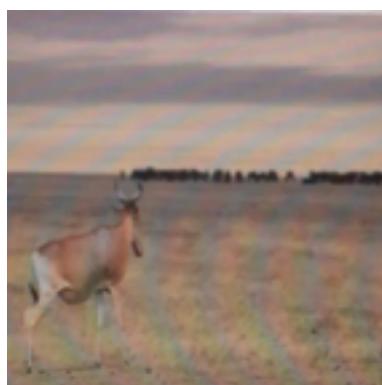
14.2

Our Result



26.8

Ground Truth



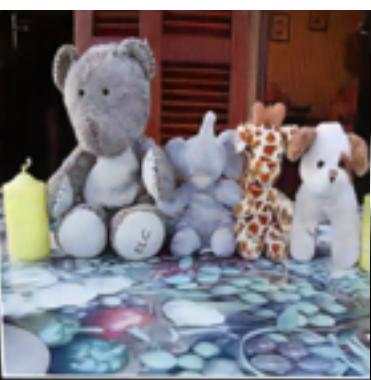
21.0



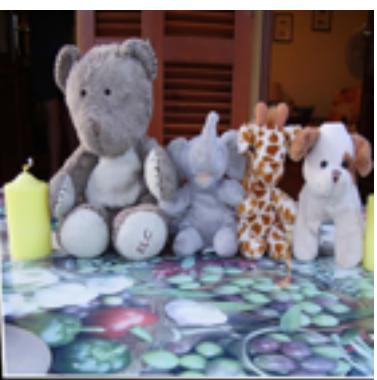
27.8



16.1



27.7



16.3



29.2



Input



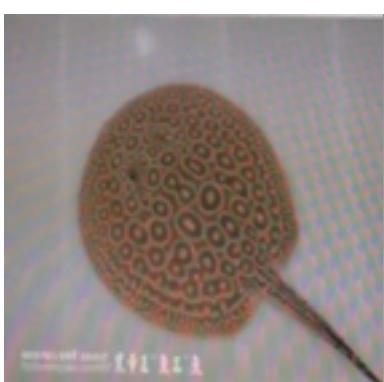
19.7

Our Result



27.4

Ground Truth



23.6



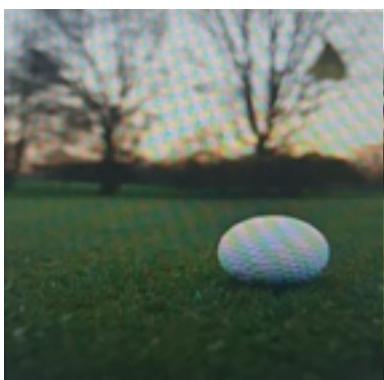
30.3



15.0



28.0



17.9



28.5



Input



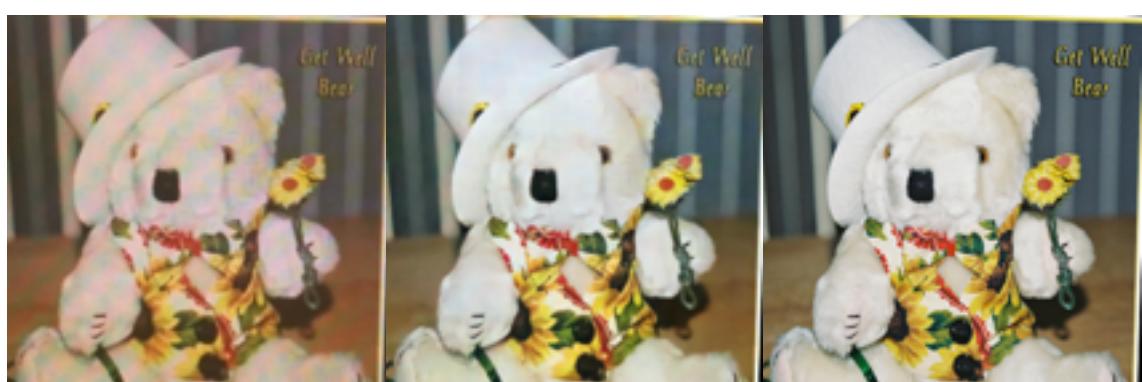
16.9

Our Result

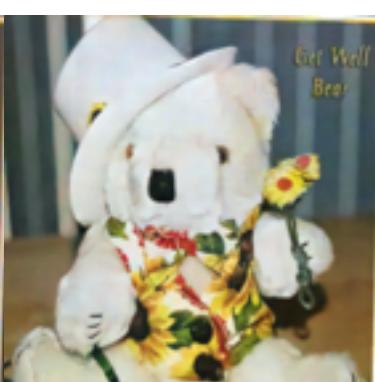


26.7

Ground Truth



20.1



25.4



18.3



28.0



16.0



28.5



Input



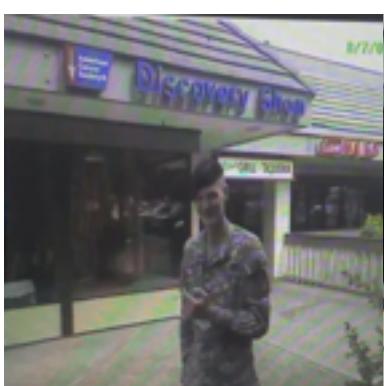
14.8

Our Result

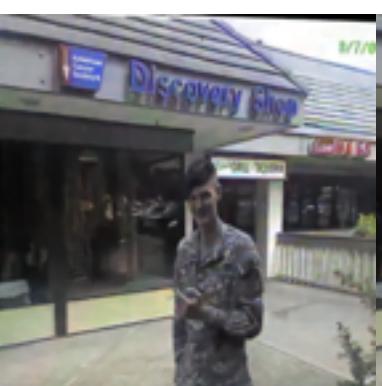


27.2

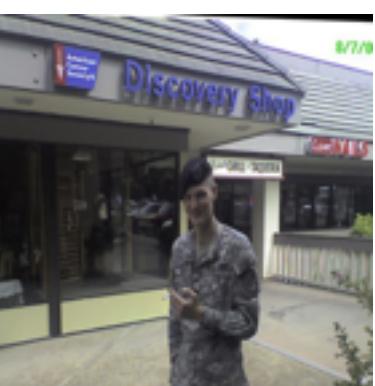
Ground Truth



20.7



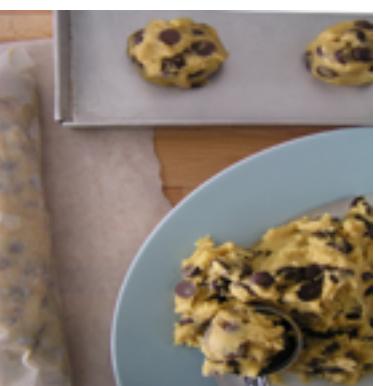
24.4



18.8



28.9



23.2



30.7



Input



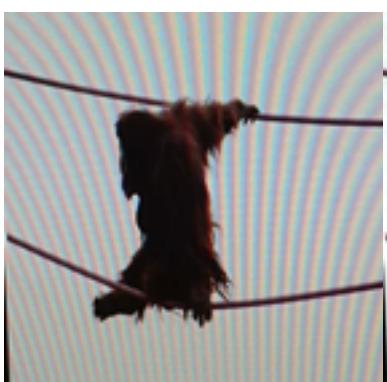
17.9

Our Result



26.7

Ground Truth



12.3



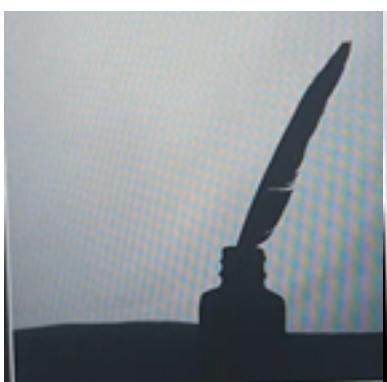
30.4



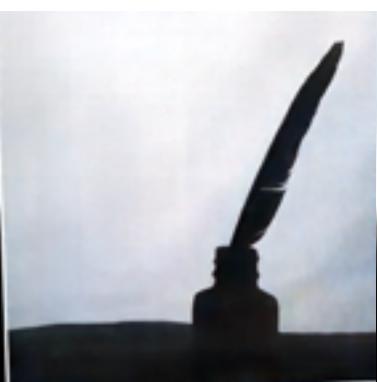
20.7



30.1



14.6



28.5



Input



13.4

Our Result

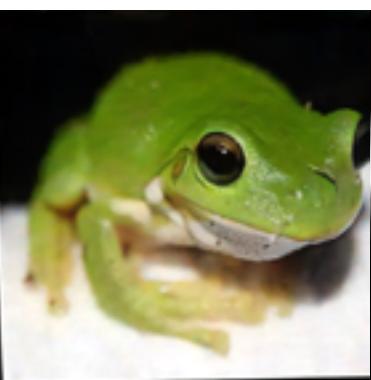


25.6

Ground Truth



14.6



30.4



12.5



27.2



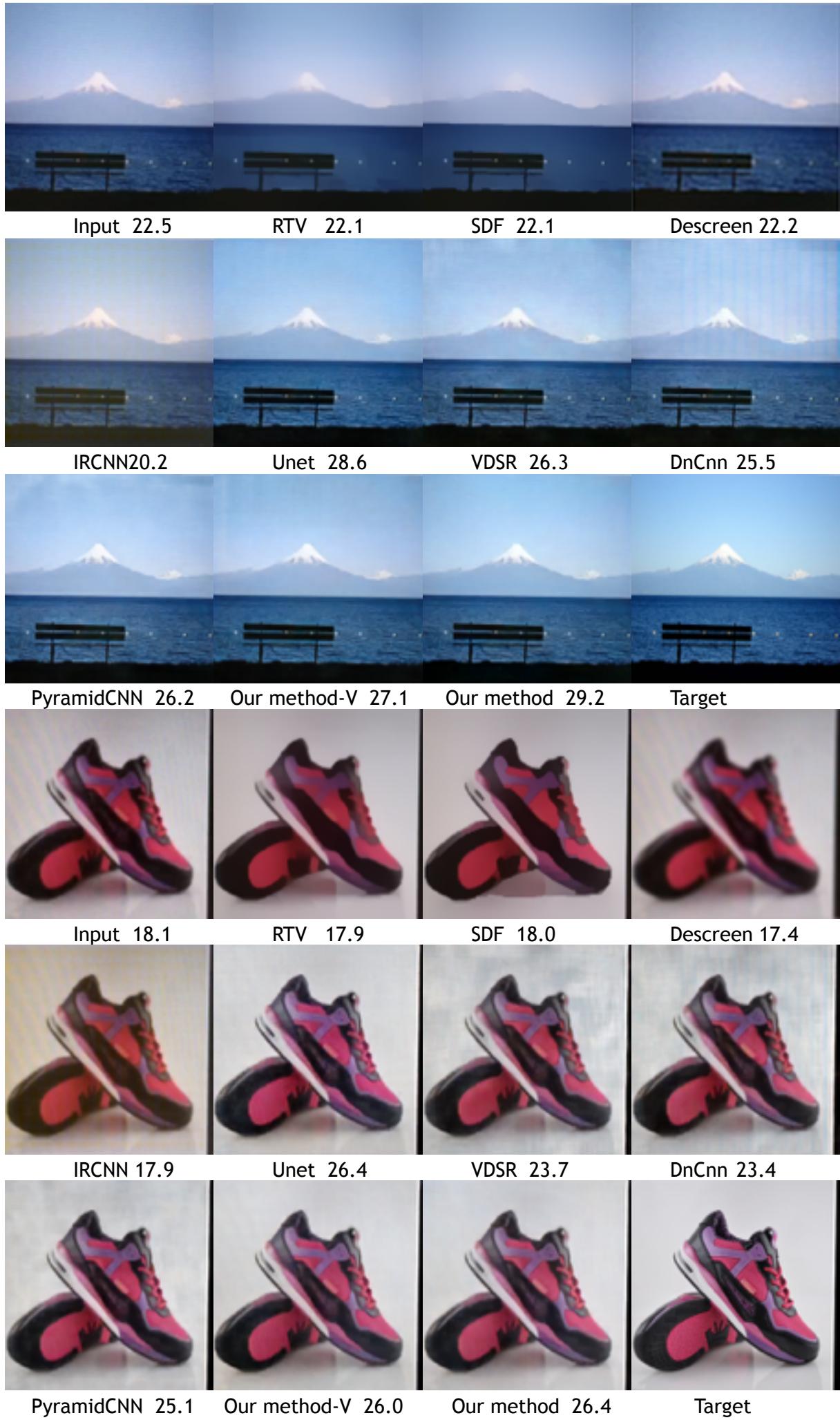
16.9

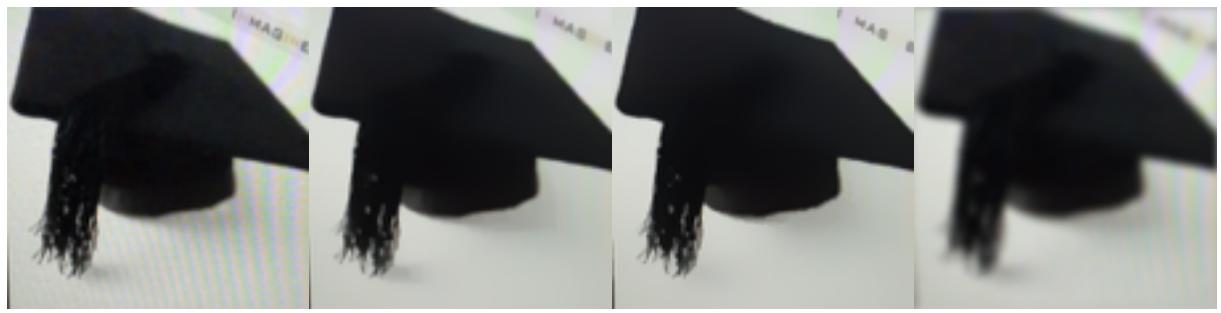


29.4



Additional Visual Comparisons





Input 17.9 RTV 17.9 SDF 17.8 Descreen 17.0



IRCNN 17.7 Unet 25.8 VDSR 24.8 DnCnn 23.0



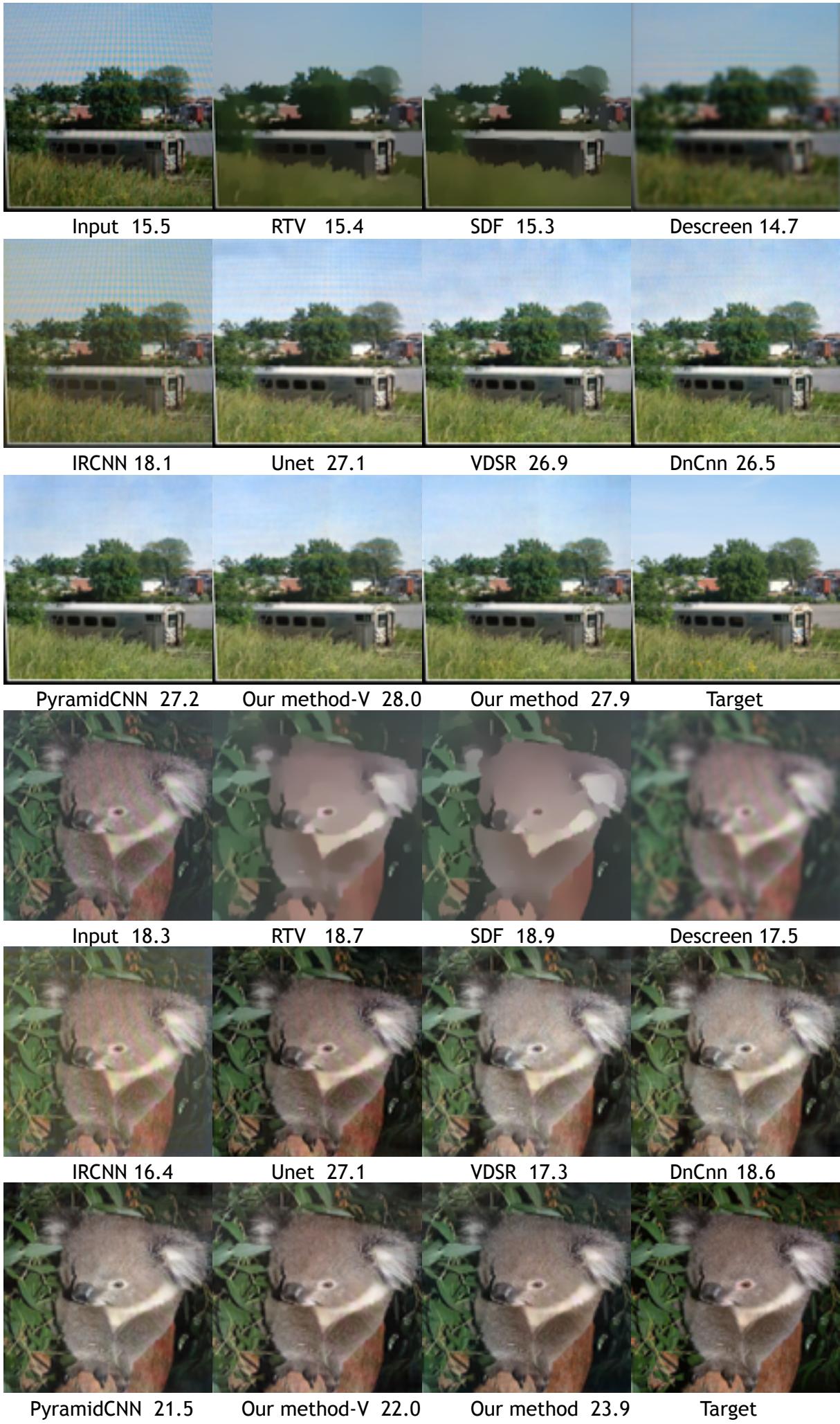
Input 20.3 RTV 19.4 SDF 19.0 Descreen 18.8



IRCNN 19.1 Unet 26.5 VDSR 20.5 DnCnn 22.5



PyramidCNN 22.3 Our method-V 27.2 Our method 25.8 Target





Input 20.0 RTV 20.7 SDF 20.6 Descreen 19.2



IRCNN20.2 Unet 27.4 VDSR 27.4 DnCnn 27.1



PyramidCNN 28.0 Our method-V 28.1 Our method 28.4 Target



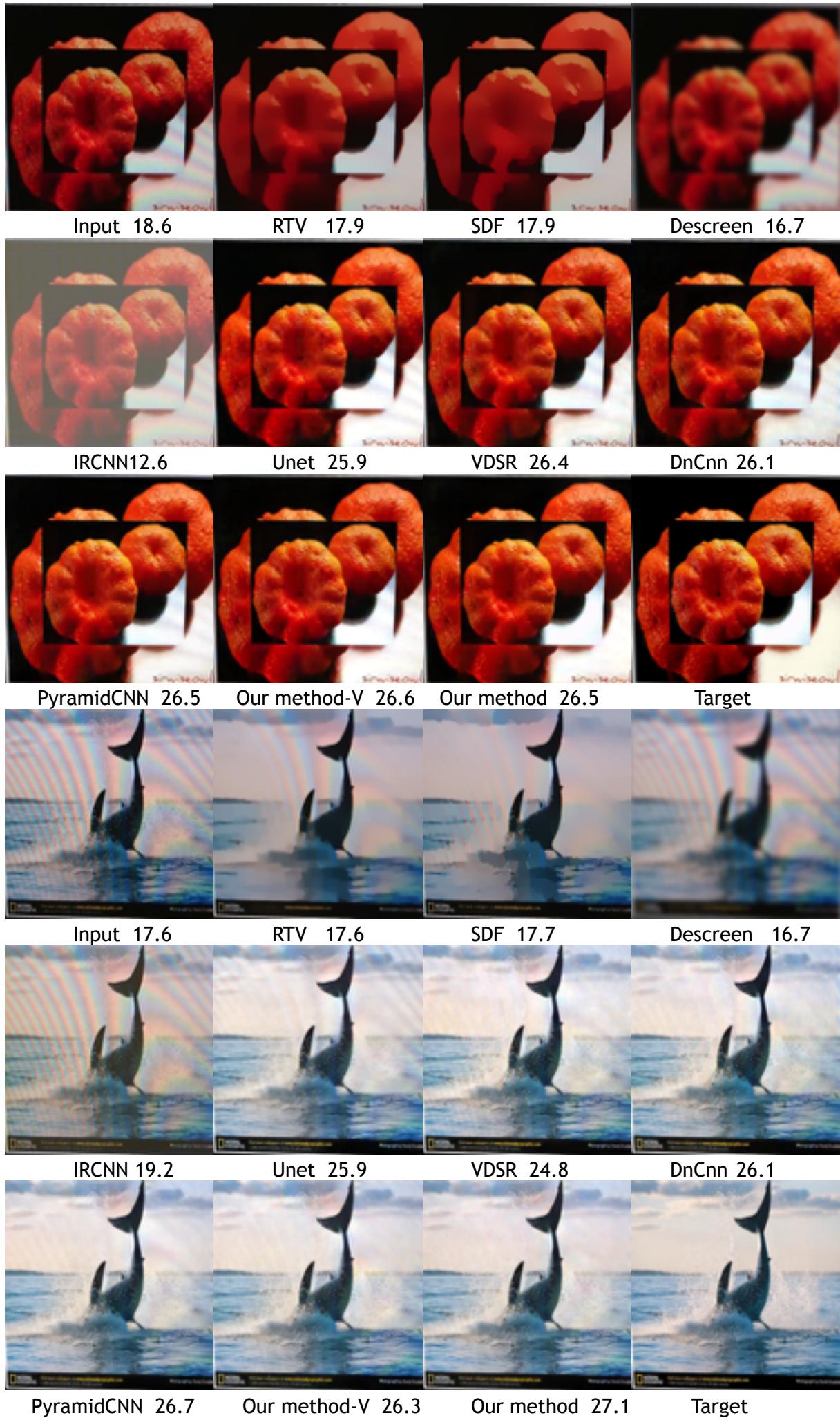
Input 19.0 RTV 18.0 SDF 17.8 Descreen 17.0



IRCNN 19.7 Unet 24.8 VDSR 23.2 DnCnn 23.2



PyramidCNN 23.8 Our method-V 25.1 Our method 24.8 Target



Additional Comparisons with Unet



Input 24.9

Unet 31.5

Our method 30.8

Target



Input 17.5

Unet 29.1

Our method 28.8

Target



Input 17.0

Unet 25.3

Our method 24.6

Target



Input17.9

Unet 29.2

Our method 29.1

Target



Input 19.7

Unet 29.2

Our method 28.5

Target



Input 19.0

Unet 26.1

Our method 25.5

Target



Input 19.0

Unet 26.1

Our method 24.9

Target

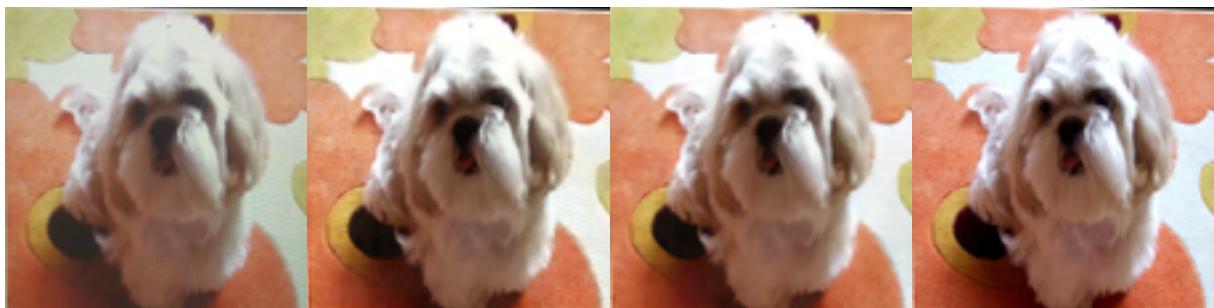


Input 20.0

Unet 26.7

Our method 26.2

Target

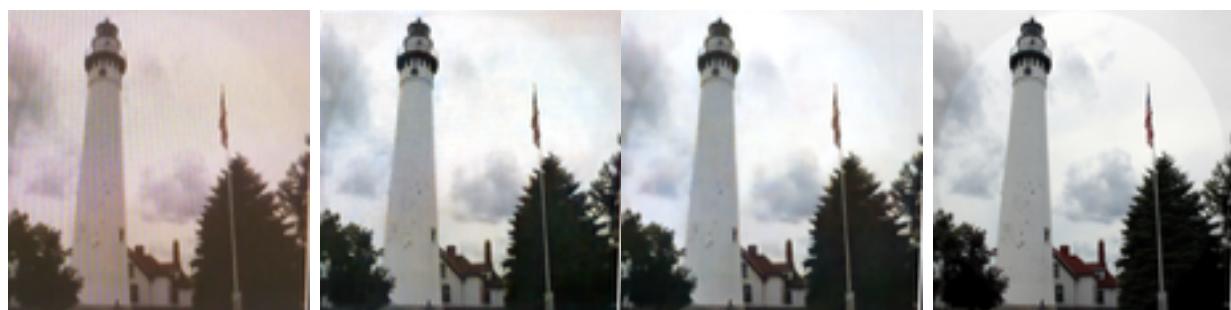


Input 20.0

Unet 27.8

Our method 27.5

Target



Input 18.6

Unet 25.9

Our method 24.4

Target



Input 22.2

Unet 27.8

Our method 28.5

Target



Input 15.7

Unet 27.5

Our method 28.1

Target

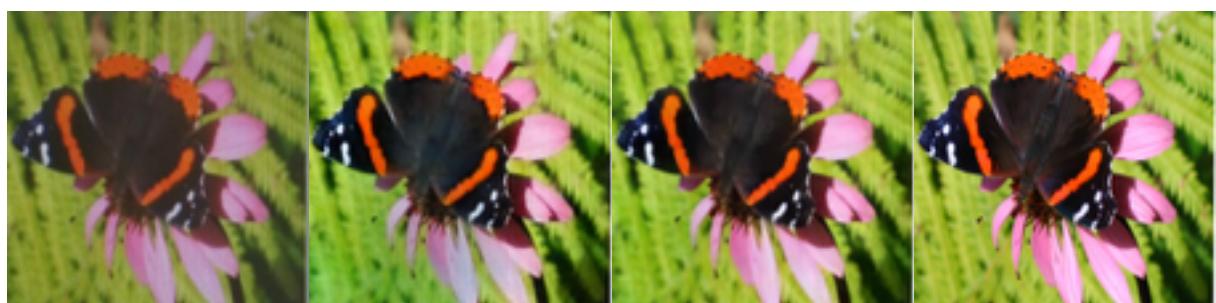


Input 15.9

Unet 27.6

Our method 28.5

Target



Input 16.9

Unet 21.7

Our method 24.4

Target

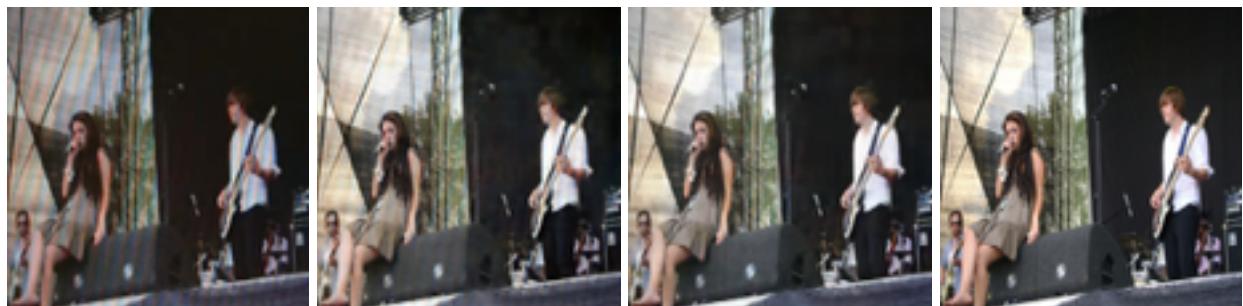


Input 17.9

Unet 24.1

Our method 24.4

Target



Input 17.4

Unet 25.1

Our method 26.2

Target



Input 17.1

Unet 27.1

Our method 27.7

Target



Input 15.9

Unet 28.4

Our method 29.5

Target



Input 14.8

Unet 19.7

Our method 27.0

Target



Input 14.0

Unet 27.7

Our method 28.7

Target

Moiré Pattern Removal Results for HUAWEI P9

(Product Model: EVA-AL10)

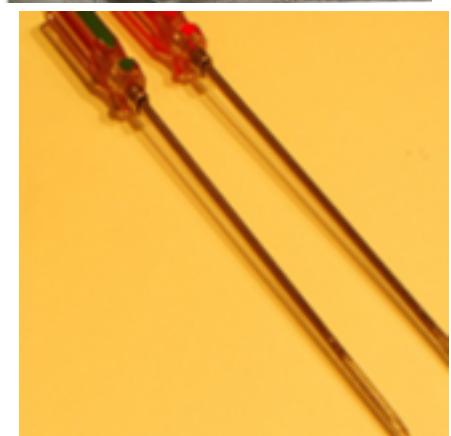
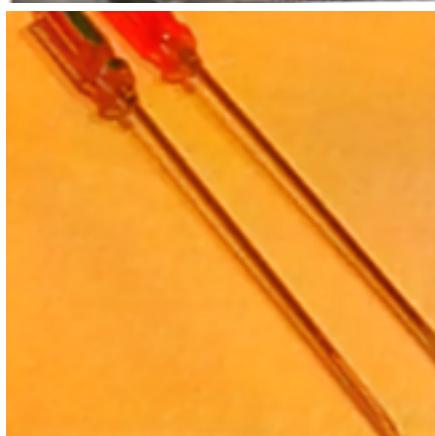
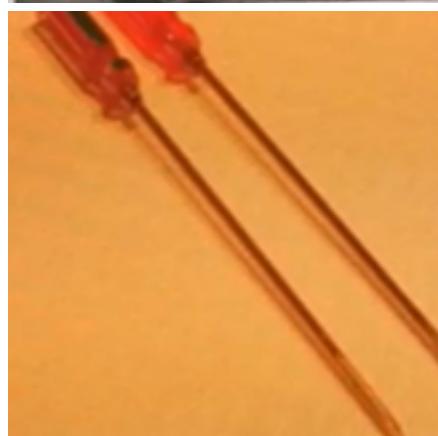
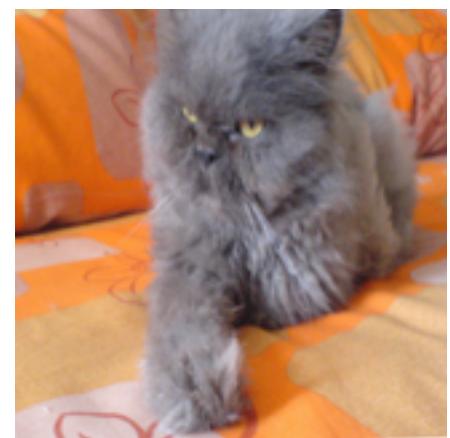
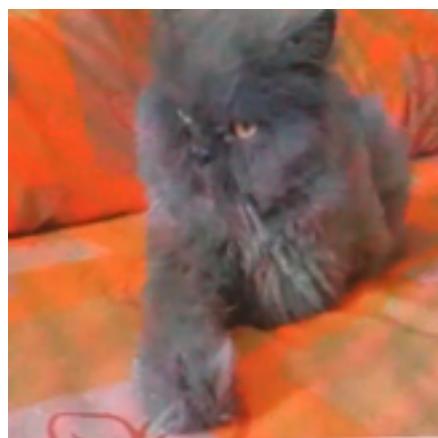
Input Image



Our Result



Ground Truth



Input Image



Our Result



Ground Truth

