HW ABF

MEDIATEK

Index

Support Chip

- MT6771

What is ABF

- Correct the blooming effect caused by sensor or lens refraction.

W/O ABF

W/ ABF

Blooming Effect

Corrected

Block Diagram

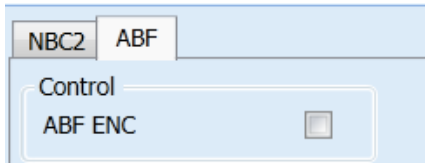Input Image

ROI Detection
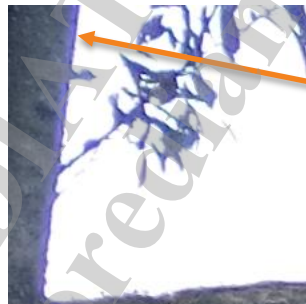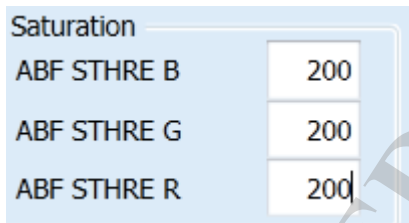
ABF Correction

Output Image

Function

- ## Control

Checked: on, Unchecked: off

- ## Saturation Threshold

  - Blooming effect happens near Saturation Region most of the time
  - When all of the R/G/B value exceed the given threshold value (STHRE R/ STHRE G/ STHRE B) are defined as the saturation region

Saturation Region:
R: 255 G: 255 B: 255

Saturation Region:
R: 174 G: 222 B: 255

Filter Tuning

Filter	
ABF BF U OFST	20

ABF BIL IDX	2

- Filter Strength: BF_U_OFST (0~63)

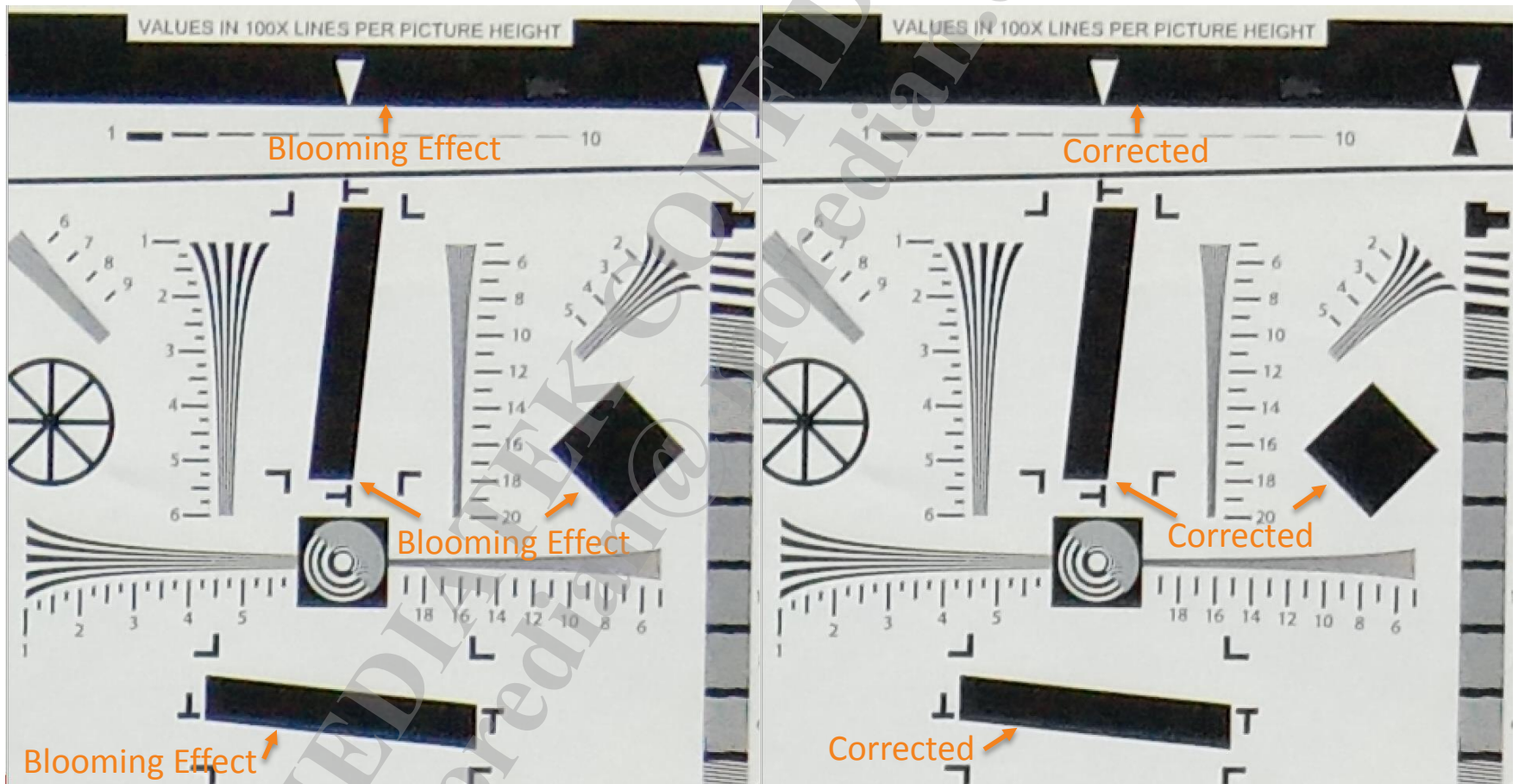 BF_U_OFST ↑, Strength ↑

- Filter Size: BIL_IDX (0~2)

  BIL_IDX ↑, Filter Size ↑

Sample Image

W/O ABF — W/ ABF

everyday genius