

CONFIDENTIAL B

**MEDIATEK**

# Bad Pixel Correction



# Index

- What is BPC and How to do BPC
- Block diagram
- Tuning Flow

# What is BPC and How to do BPC

- **B**ad **P**ixel **C**orrection indicates that abnormal pixels from neighbors would be corrected.

- e.g.

0	0	0	0	0
0	0	0	0	0
0	250	0	0	0
0	0	0	0	0
0	0	0	0	0



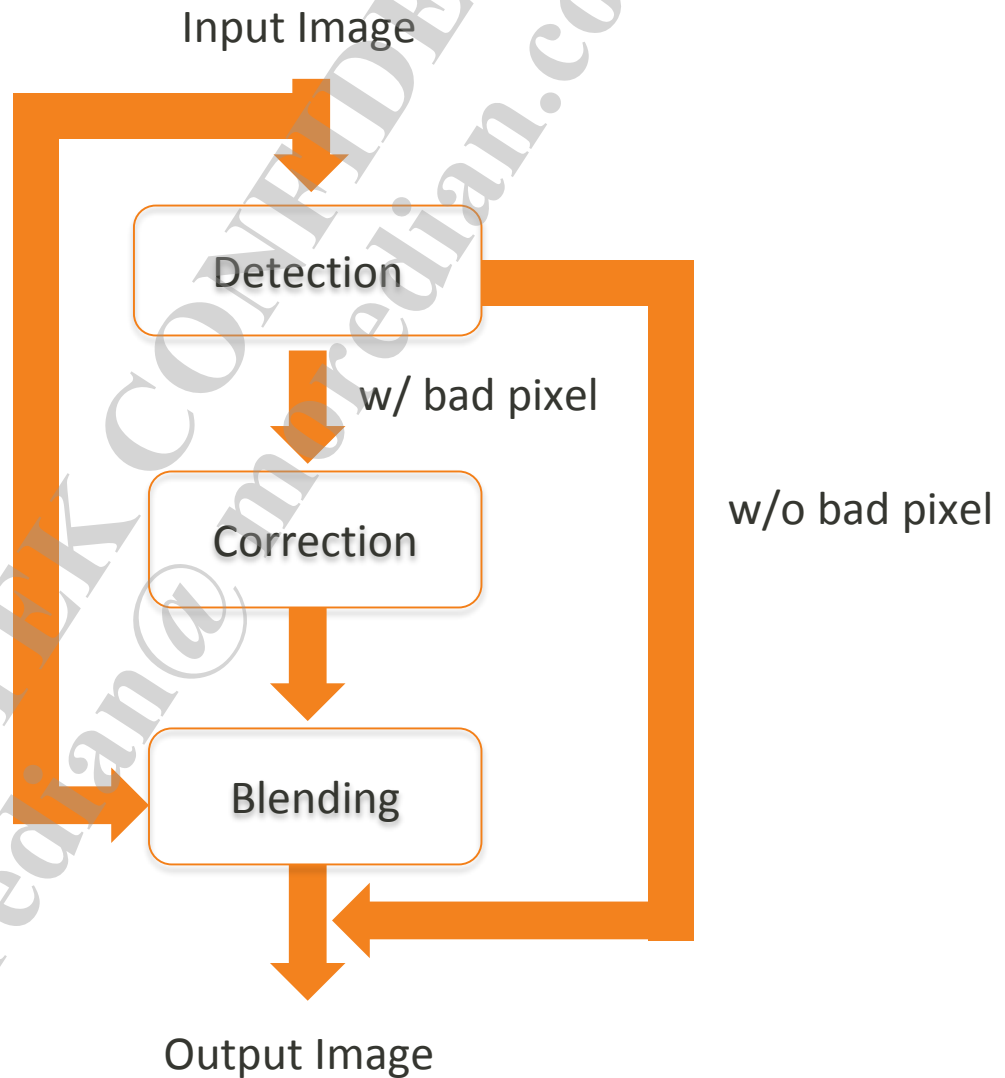
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

250	250	250	250	250
250	250	250	250	250
250	10	250	250	250
250	250	250	250	250
250	250	250	250	250



250	250	250	250	250
250	250	250	250	250
250	250	250	250	250
250	250	250	250	250
250	250	250	250	250

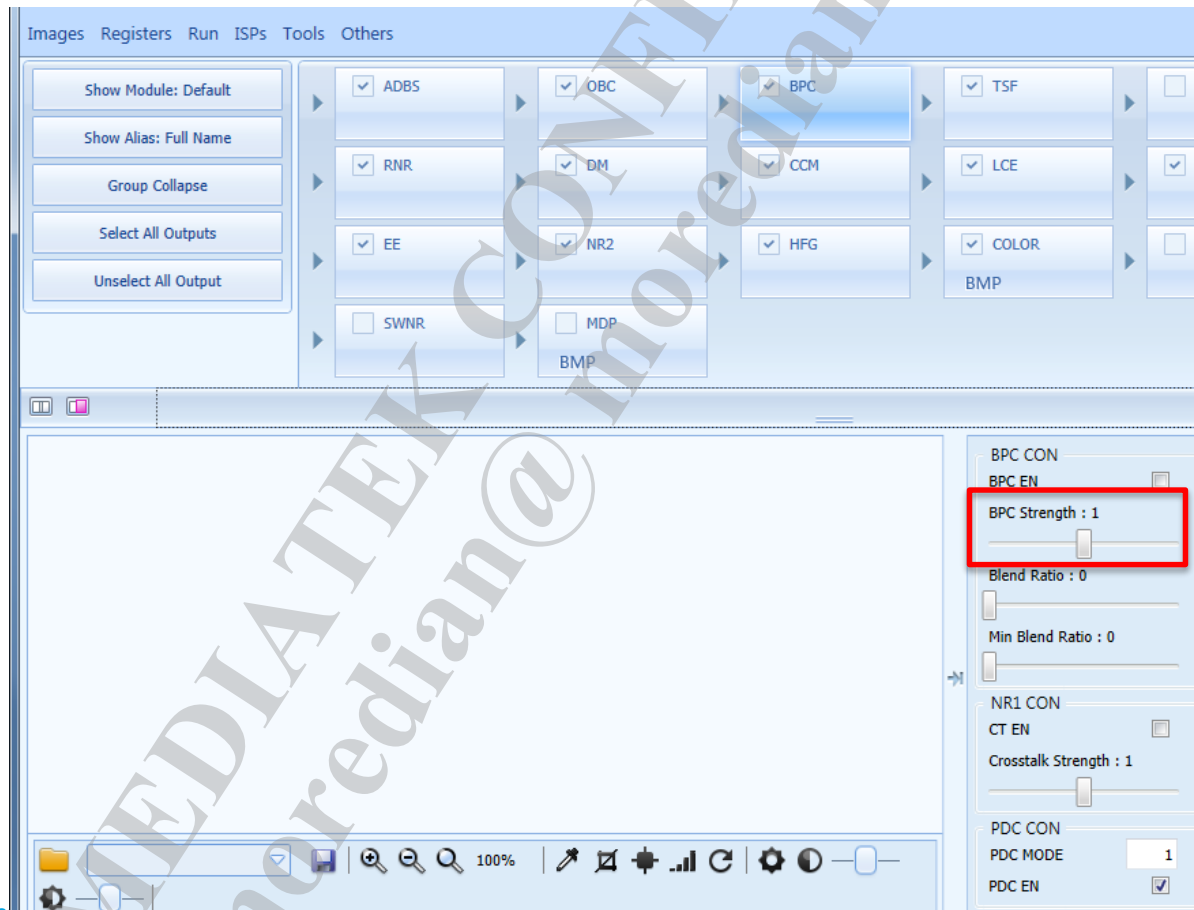
# Block Diagram



# Tuning Slider (ImagiqSimulator)

## 1. Strength

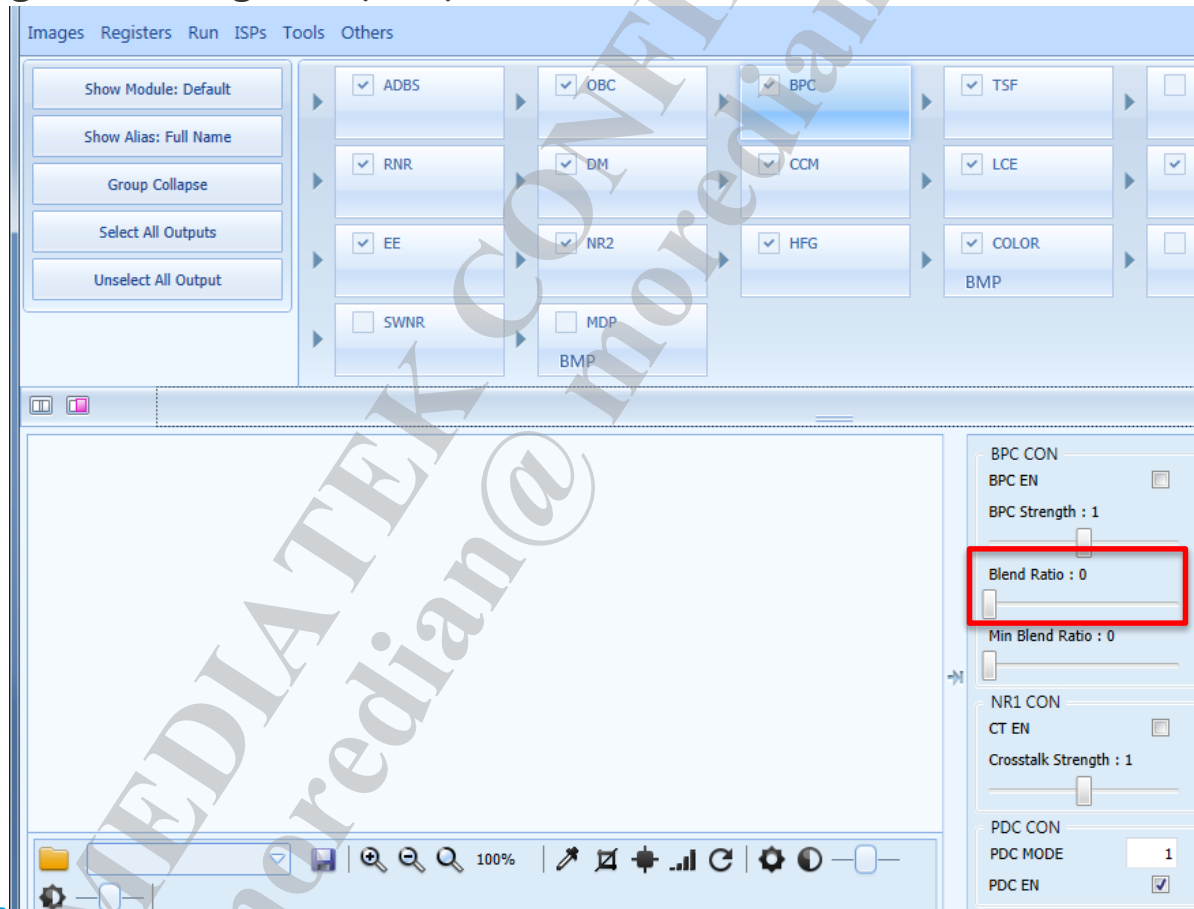
- There are three levels for BPC strength, Low, Mid, and High
- The High strength is recommended to high ISO only.



# Tuning Slider (ImagiqSimulator)

## 2. Blend ratio

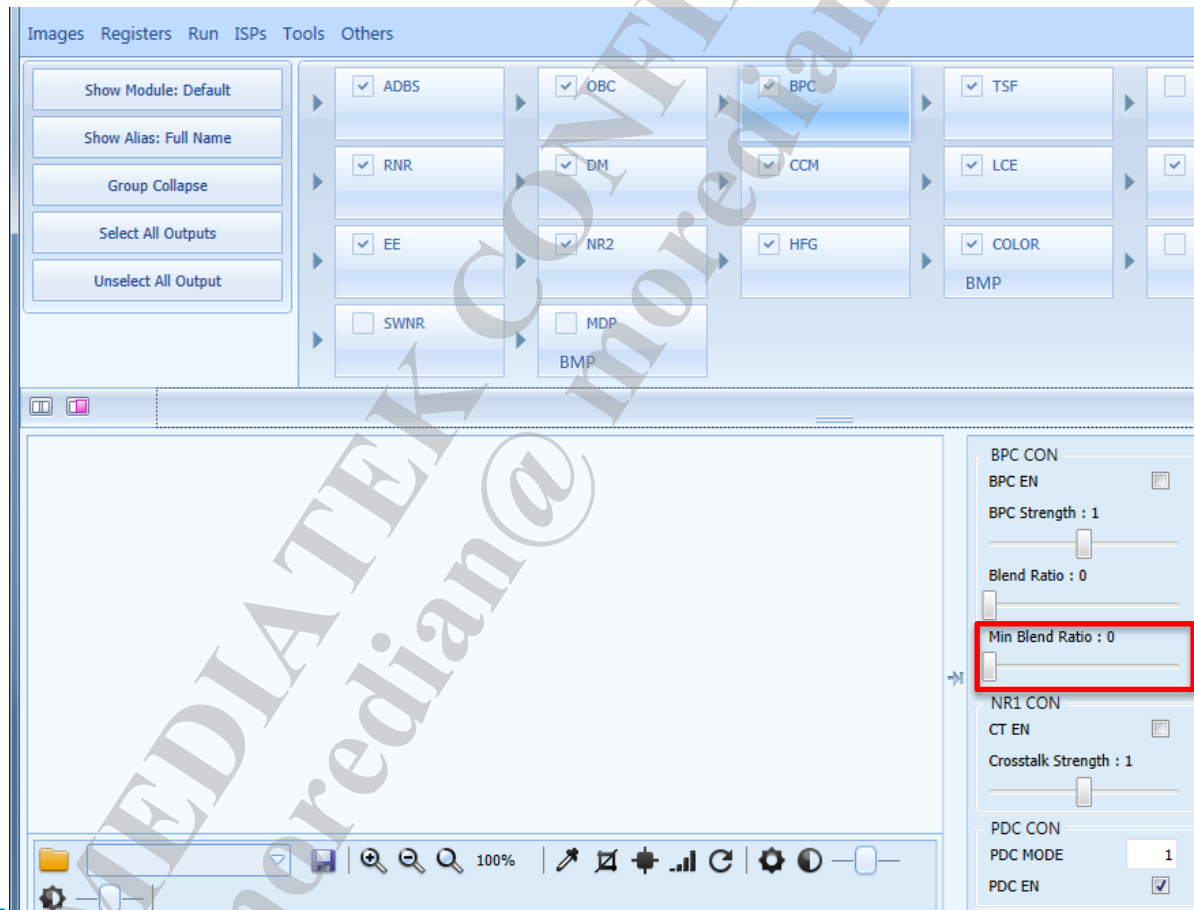
- 256 levels for Blend ratio, from 0 (min blending) to 255 (max blending)
- The higher difference between original and BPC-modified frame is observed, the larger blending ratio(255) is recommended



# Tuning Slider (ImagiqSimulator)

## 3. Min Blend ratio

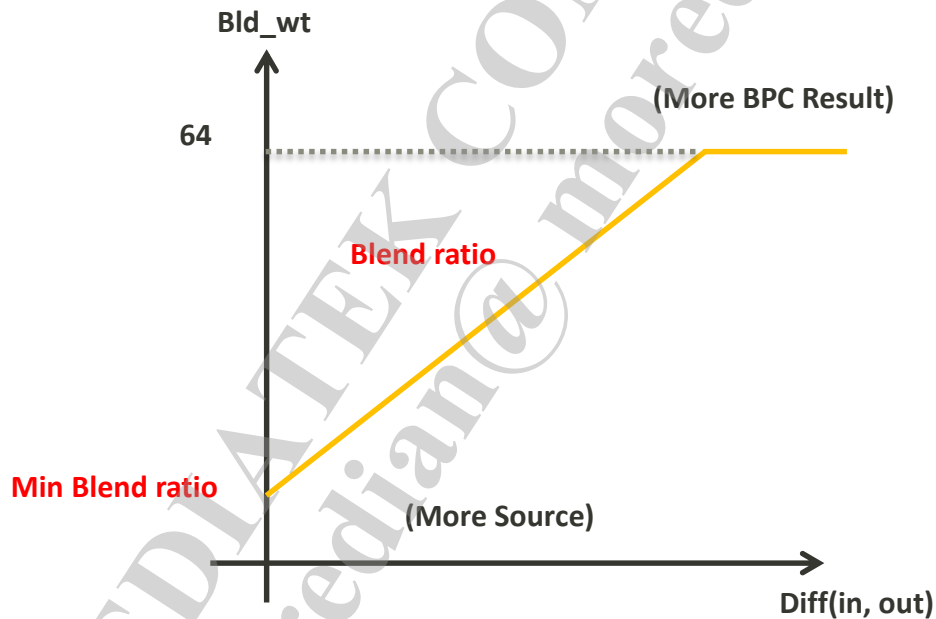
- There are 65 levels for Min Blend ratio, from 0 (no blending) to 64 (full blending)
- The min Blending level at least would be applied



# ISP Tuning Flow

In ISP tuning tool, We also have three items as slider for tuning.

1. Strength
2. Blend ratio
3. Min Blend ratio





**MEDIATEK**

*everyday genius*