

CONFIDENTIAL B

P40 ADBS Introduction & Usage

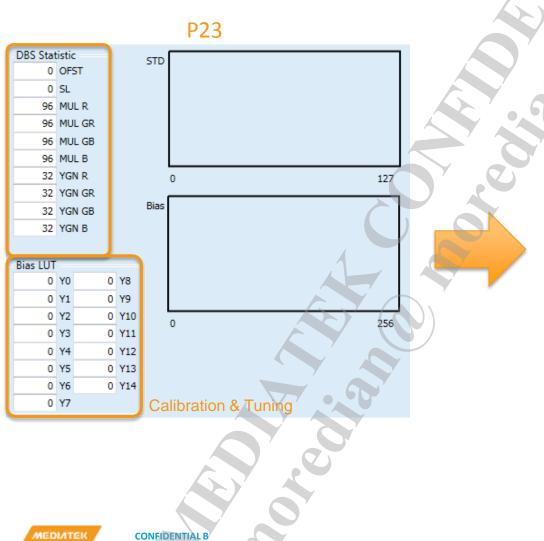
Outline

- P23 (DBS) → P40 (ADBS) UI Change
- Gray Blending
- Simulation Results

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P23 DBS P40 ADBS



P40

Step1: Basic ADBS (auto; tuning-free)



Step2: Gray blending (option)

GRAY BLD		
BLD MXRT	0	
BLD SLP	0	
BLD LOW	269	
BLD HIGH	275	
GAIN		
GAIN R	512	
GAIN G	512	
GAIN B	512	
IVGN		
IVGN R	512	
IVGN G	512	
IVGN B	512	

(non-tunable; linked with PGN by FW)

IVGN R = 512*512/GAIN R IVGN G = 512*512/GAIN G

IVGN B = 512*512/GAIN B

DBS











50% Brightnes

DBS





50% Brightnes





Gray Blending

- Gray blending (OFF)
 - BLD_MXRT = 0
- Gray blending (ON)
 - Suggestion: very high ISO and very low light scene
 - BLD_MXRT > 0 & BLD_LOW >= OBC_OFFST (ex. BLD_LOW >= 256 for OBC_OFST = -256)

Reg

BLD_MXRT

BLD_LOW

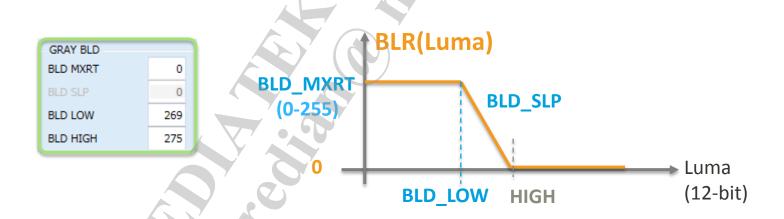
BLD_HIGH

Suggestion

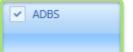
200

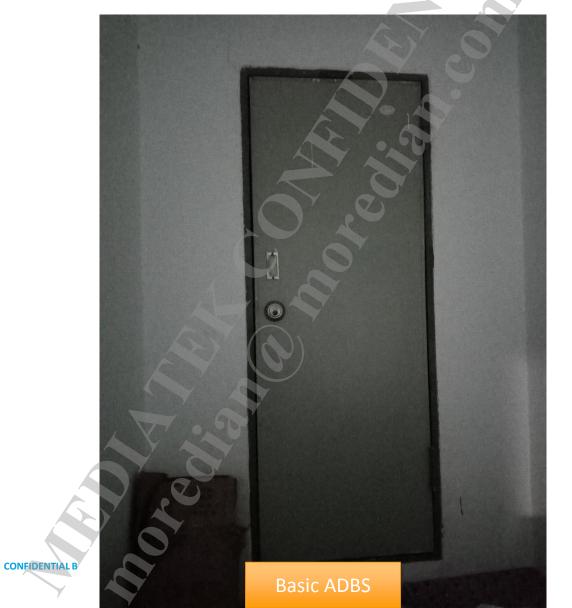
269

275











 GRAY BLD

 BLD MXRT
 255

 BLD SLP
 81

 BLD LOW
 270

 BLD HIGH
 320

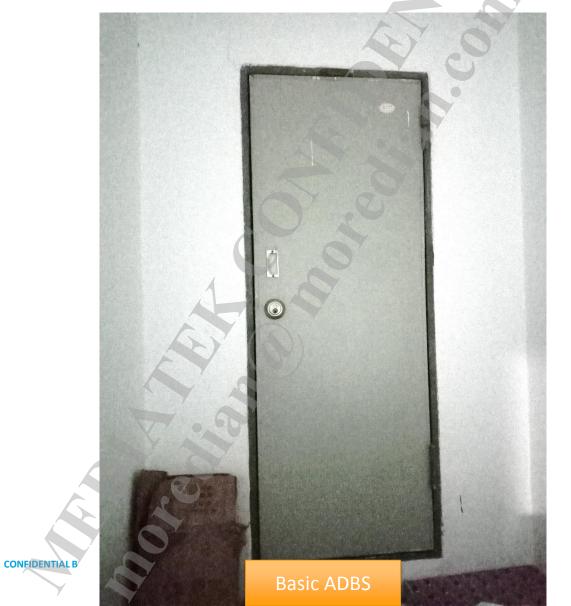
ADBS





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 GRAY BLD

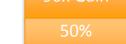
 BLD MXRT
 255

 BLD SLP
 81

 BLD LOW
 270

 BLD HIGH
 320

ADBS







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Registers

Reg name	Range	Description	※ Default	Suggestion
BLD_MXRT	0~255	Maximum ratio of gray blending	0	200
BLD_LOW	0~319	Luma threshold of gray blending	269	269
BLD_HIGH	0~320	Luma threshold of gray blending	275	275



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