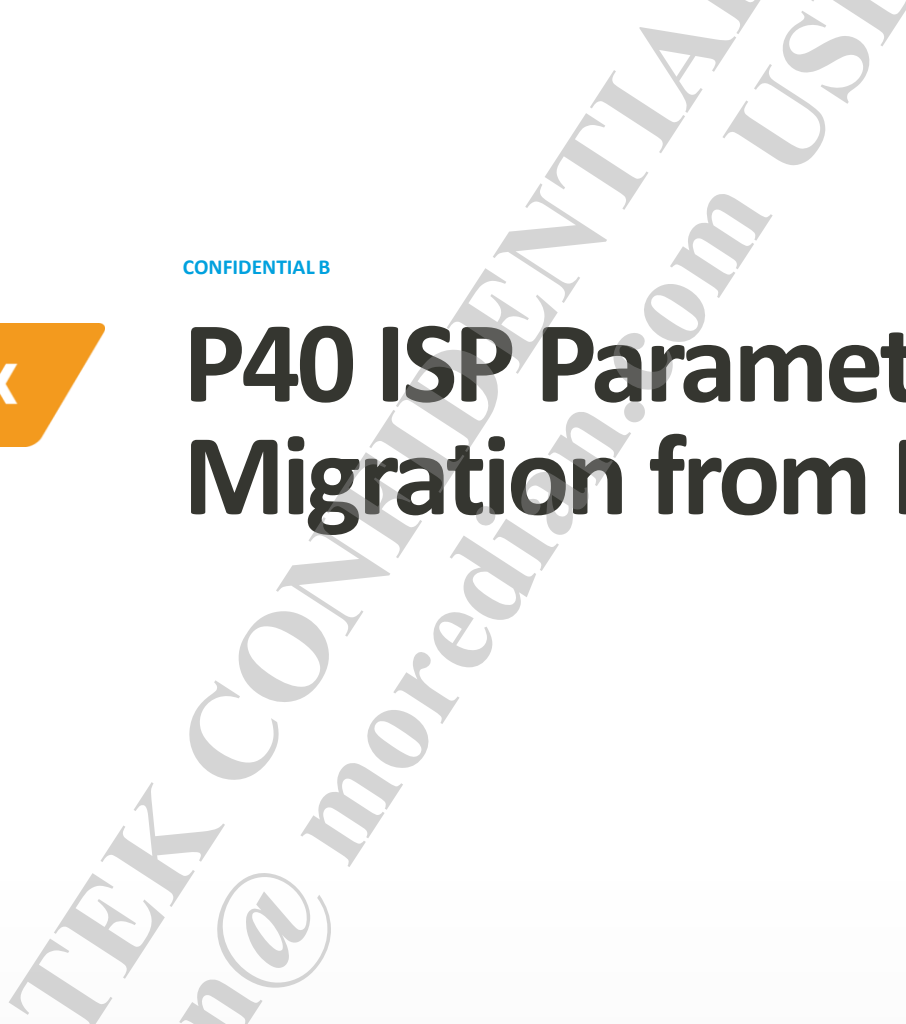


CONFIDENTIAL B

P40 ISP Parameter Migration from P23

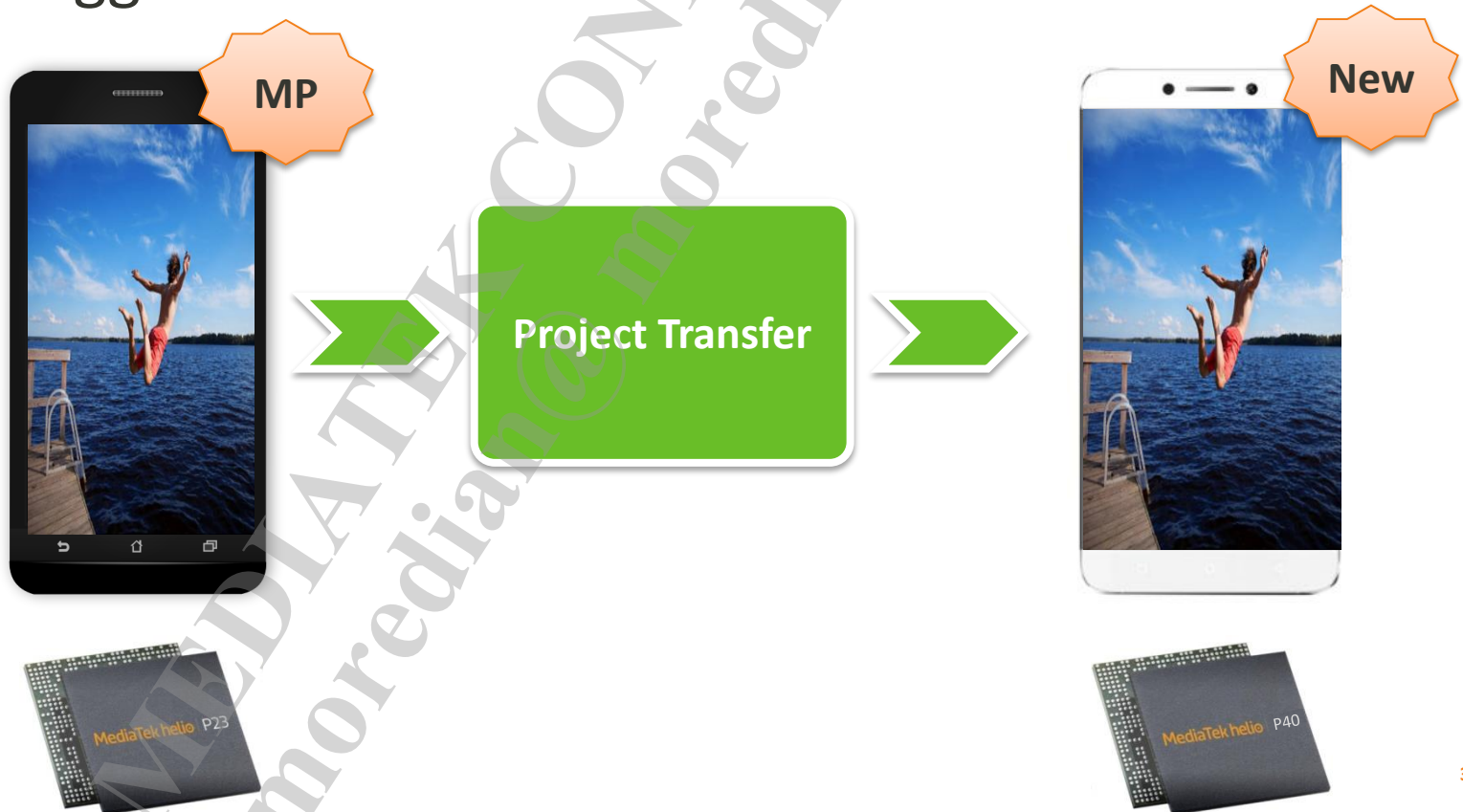


Agenda

- Motive
- Parameter migration SOP

Motive

- Get P40 ISP initial setting from P23 MP model
 - Similar IQ compare with P23
 - Suggestion: Same sensor module

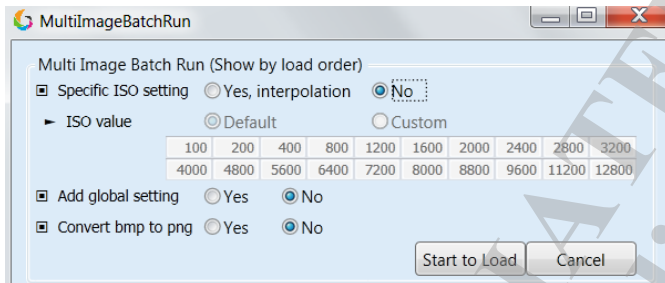


Preparation

- P23 Phone
 - MP Load
 - Camlogger installed to get raw data
 - Capture with different ISO (i.e. ISO100~highest ISO)
- Imagiq™ Simulator version 4 (for P23)
 - a.k.a. *Simulator_v4*
- Imagiq™ Simulator version 5 (for P40)
 - a.k.a. *Simulator_v5*

Step 1: Prepare P23 DAT

- Step 1 (w/ *Simulator_v4*)
 - Do 'Batch Run' to generate *_autogen.dat



A list of four image files, each with a small icon to its left:

- Capture20160702-060801ISO00100.jpg
- Capture20160702-061246ISO00200.jpg
- Capture20160702-061248ISO00400.jpg
- Capture20160702-061250ISO00800.jpg

A list of four generated DAT files, each with a small icon to its left:

- Capture20160702-060801ISO00100pure_autogen.dat
- Capture20160702-061246ISO00200pure_autogen.dat
- Capture20160702-061248ISO00400pure_autogen.dat
- Capture20160702-061250ISO00800pure_autogen.dat

Prepare P23 DAT

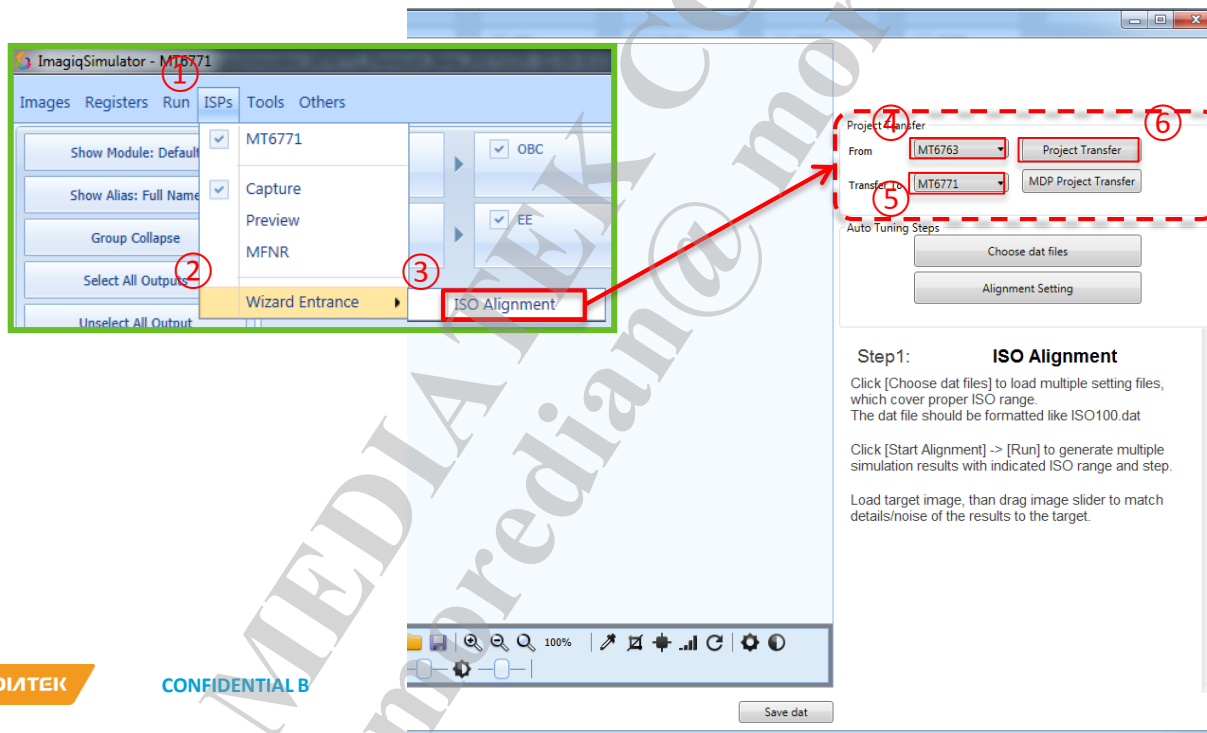
DAT transfer
P23 -> P40

Verification

Refine Parameter

Step 2: DAT Transfer

- Step 2-1 (w/ Simulator_v5)
 - Open Wizard
 - ISPs → Wizard Entrance → ISO Alignment
 - Select 'MT6763' → Select 'MT6771'
 - Click 'Project Transfer'



Prepare P23 DAT

DAT transfer
P23 -> P40

Verification

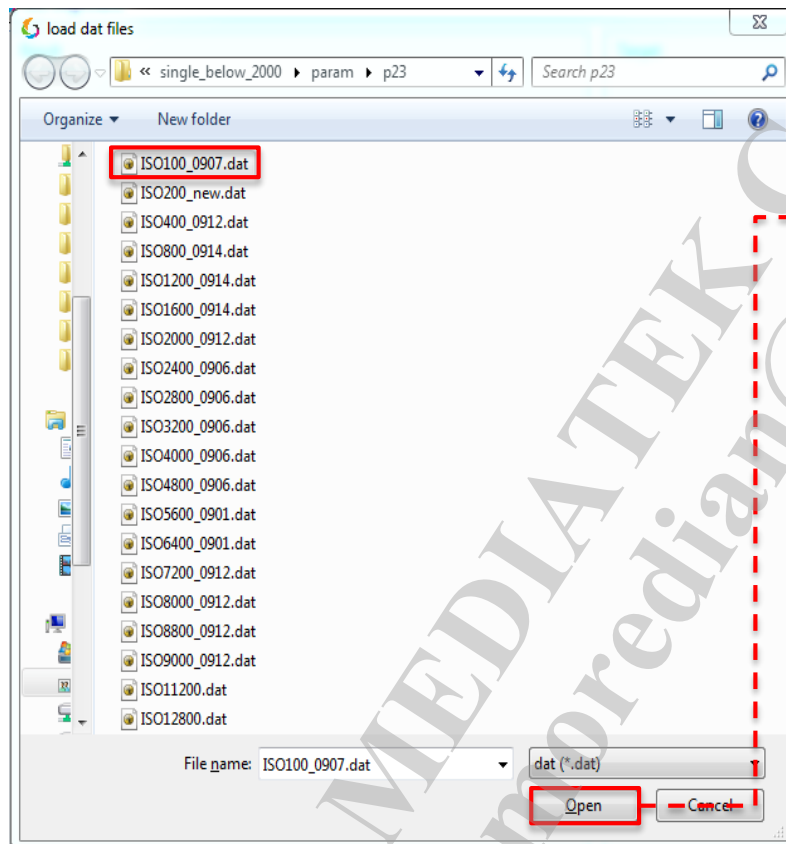
Refine Parameter

Step 2: DAT Transfer

■ Step 2-2 (w/ Simulator_v5)

— Select DAT file

- Select DAT files → Click 'Open'



ISO100_0907.dat
ISO100_0907_MT6763.dat
ISO100_0907_MT6775.dat

File Name	Description
xxx.dat	P40 dat file
xxx_MT6763.dat	P23 dat file
xxx_MT6771.dat	P40 dat file

Prepare P23 DAT

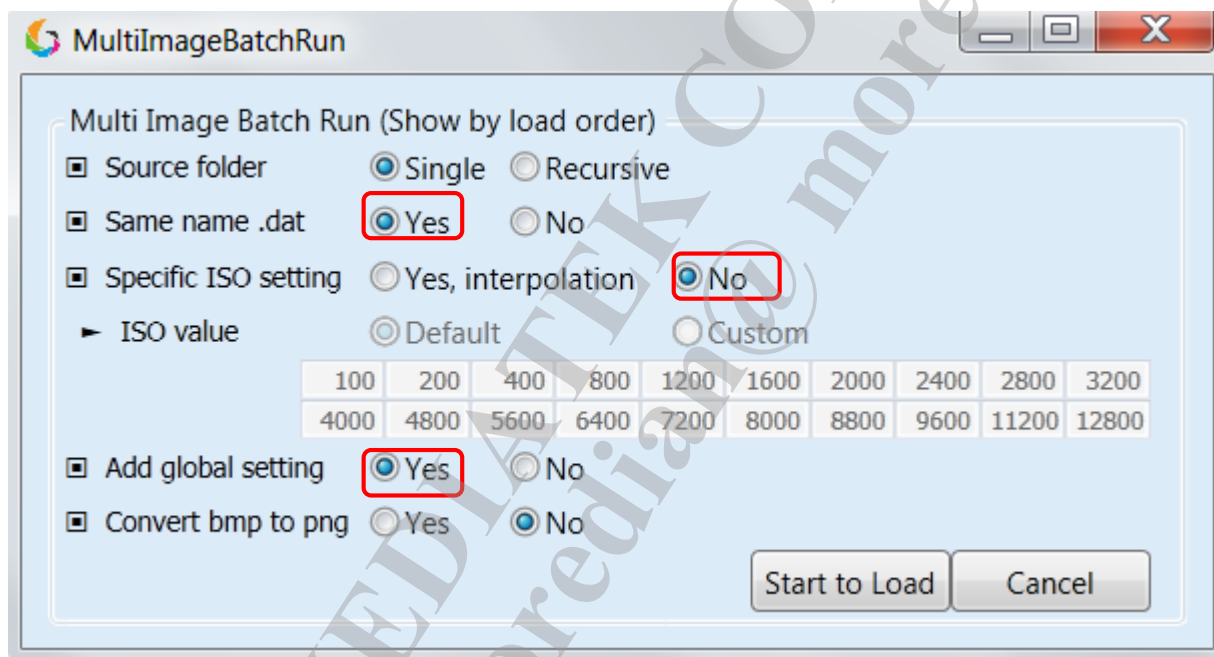
DAT transfer
P23 -> P40

Verification

Refine Parameter

Step 3: Verification

- Step 3 (w/ *Simulator_v5*)
 - Do 'Batch Run'
 - Compare P23 and P40 simulation result



Prepare P23 DAT

DAT transfer
P23 -> P40

Verification

Refine Parameter

Step 3: Verification

ISO1600, 100%



Step 3: Verification

ISO1600, 100%



Step 3: Verification

ISO7415, 100%



Step 3: Verification

ISO7415, 100%



Step 4: Refine Parameter

- Step 4 (w/ *Simulator_v5*)
 - Use *Simulator_v5* to open raw
 - Load xxx_autogen.dat
 - Refine steps

Step	Register	Tuning Suggestion
1. New NR Adjustment	1.1: ITUNE_ANR_BLD_OFF	1: Do not blending
	1.2: L0~L4 std	value ↑, noise ↓
	1.3: Y_L2(3)_RNG_RAT_TH	value ↑, texture ↑
	1.4: Y_SLOPE_H(V)_TH	value ↓, edge ↑
2. Adjust blending ratio	2.1: ITUNE_ANR_BLD_OFF	0: Blending
	2.2: Y_L2(3)_HF_W	value ↑, detail ↑
	2.3: Y_L0_HF_W	value ↓, noise ↓

Prepare P23 DAT



DAT transfer
P23 -> P40



Verification



Refine Parameter

Step 4: Refine Parameter

ISO7415, 100%



Step 4: Refine Parameter

ISO7415, 100%



P40 Refined Parameter

MEDIA TEK

everyday genius