



**CONFIDENTIAL A**

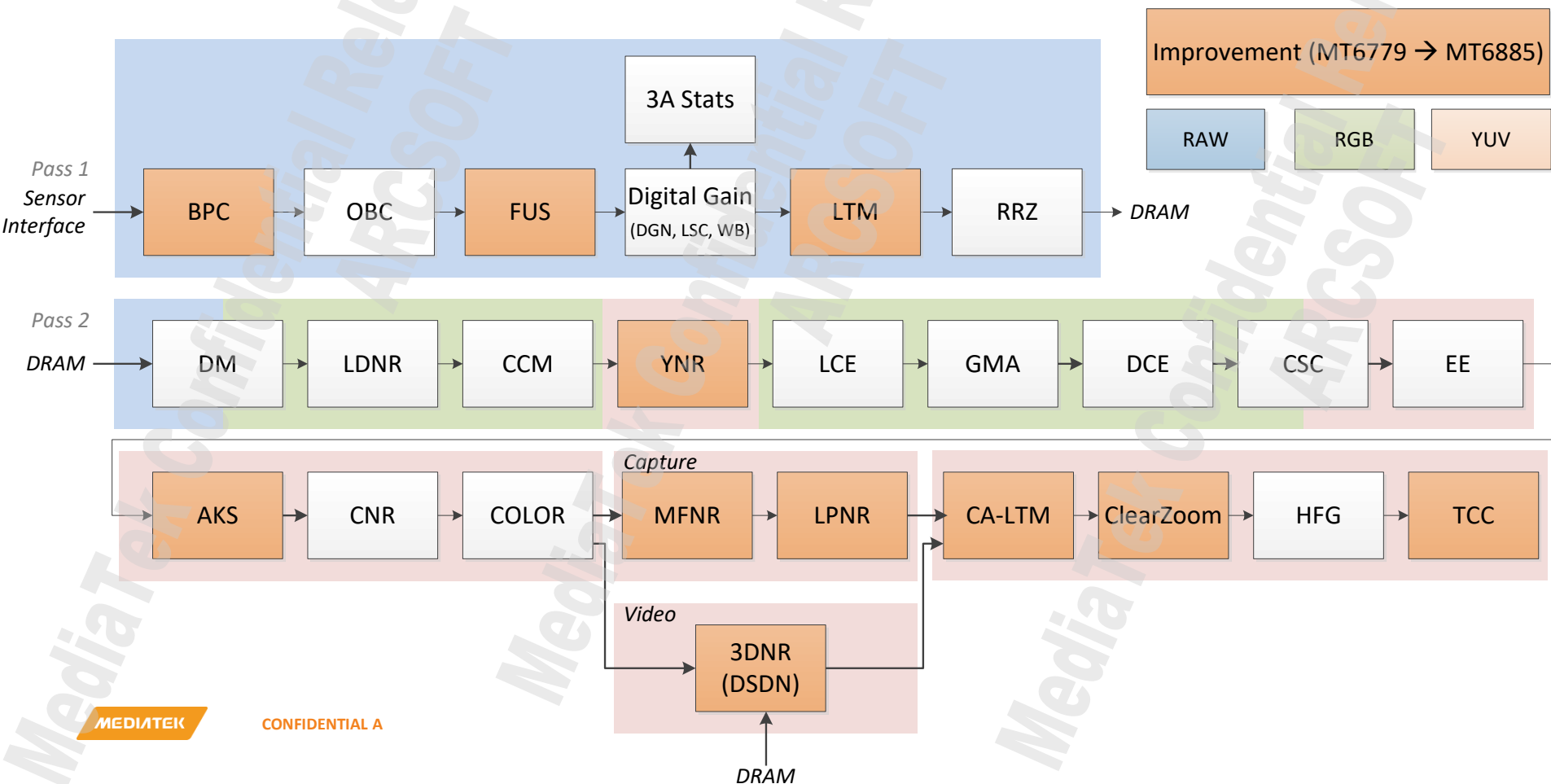
# MT6885 ISP Overview

# Agenda

- MT6779 to MT6885 ISP HW Improvement
- MFNR4.0
- DSDN2.5

# MT6885 ISP Block Diagram

- There are no major changes in this version of ISP Pipeline, which continued the MT6779 architecture.
- Mainly modify some software algorithms.



# MT6885 IQ Improvement (from MT6779)

Function	Petrus Improvement
BPC	<ul style="list-style-type: none"><li>Improved ability to detect dead pixels in low light environments</li></ul>
FUS	<ul style="list-style-type: none"><li>Support Preview/Video HDR</li></ul>
LTM	<ul style="list-style-type: none"><li>Improve Highlight color saturation</li></ul>
YNR	<ul style="list-style-type: none"><li>Face NR tuning flexibility</li><li>Reduce luma impulse noise without blurring texture</li></ul>
AKS	<ul style="list-style-type: none"><li>Improve edge smoothness</li></ul>
CA-LTM	<ul style="list-style-type: none"><li>Supports video preview/record (up to 4K 60Hz)</li><li>Enhance detail contrast while suppressing noise</li></ul>
ClearZoom	<ul style="list-style-type: none"><li>Improve image clarity</li></ul>
TCC	<ul style="list-style-type: none"><li>Support End-to-End HDR video recording</li></ul>
LPNR	<ul style="list-style-type: none"><li>Improved ability to remove low frequency noise on single frame</li></ul>
MFNR	<ul style="list-style-type: none"><li>Improved noise reduction · keep more texture details · more clear for moving objects.</li></ul>
DSDN	<ul style="list-style-type: none"><li>Improve preview clarity and noise reduction.</li></ul>



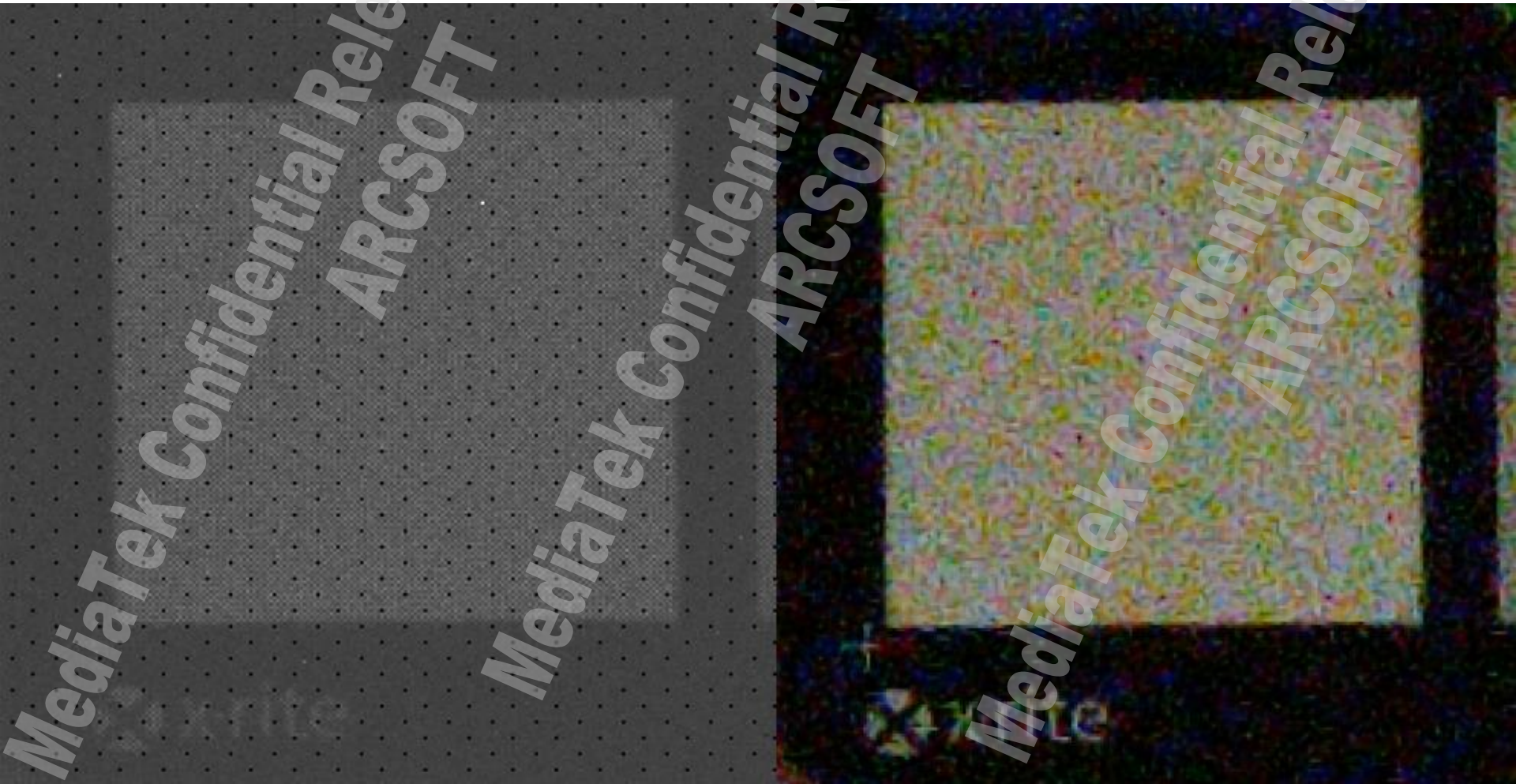
# BPC

- Improved ability to detect dead pixels in low light environments



**RAW w/ PD pixel + Bad pixel**

**MT6885**



# LTM

- Suppress the highlight parts of image
- Improve Highlight Color Saturation

## MT6779





LTM

MT6885



# AKS

- Improve Edge Smoothness

MT6779

MT6885



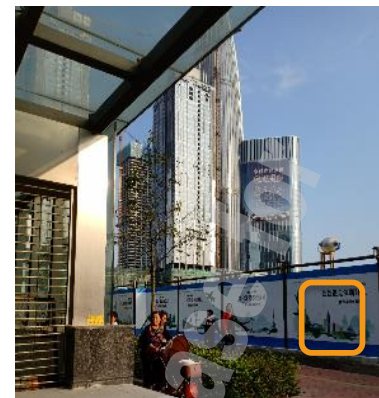


# CA-LTM

- Enhance detail contrast while suppressing noise

MT6779

MT6885



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我为深圳文明点赞

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# ClearZoom

MT6779(8X)



# ClearZoom

- Improve image clarity

MT6885 (8X)





LPNR

MT6779



# LPNR

- Improved ability to remove low frequency noise on single frame

MT6885



# Agenda

- MT6779 to MT6885 ISP HW Improvement
- MFNR4.0
- DSDN2.5



MFNR4.0

MT6779



# MFNR4.0

- Improved ability to remove noise in low frequency area
- Keep more detail and texture
- More clear for moving object

MT6885



# Agenda

- MT6779 to MT6885 ISP HW Improvement
- MFNR4.0
- DSDN2.5



# DSDN2.5

- Improve preview/video clarity and noise reduction

MT6779



MT6885



**MEDIATEK**

everyday genius