A picture containing text, clipart

Description automatically generated

**Demura algorithm**

**DLL Guide**

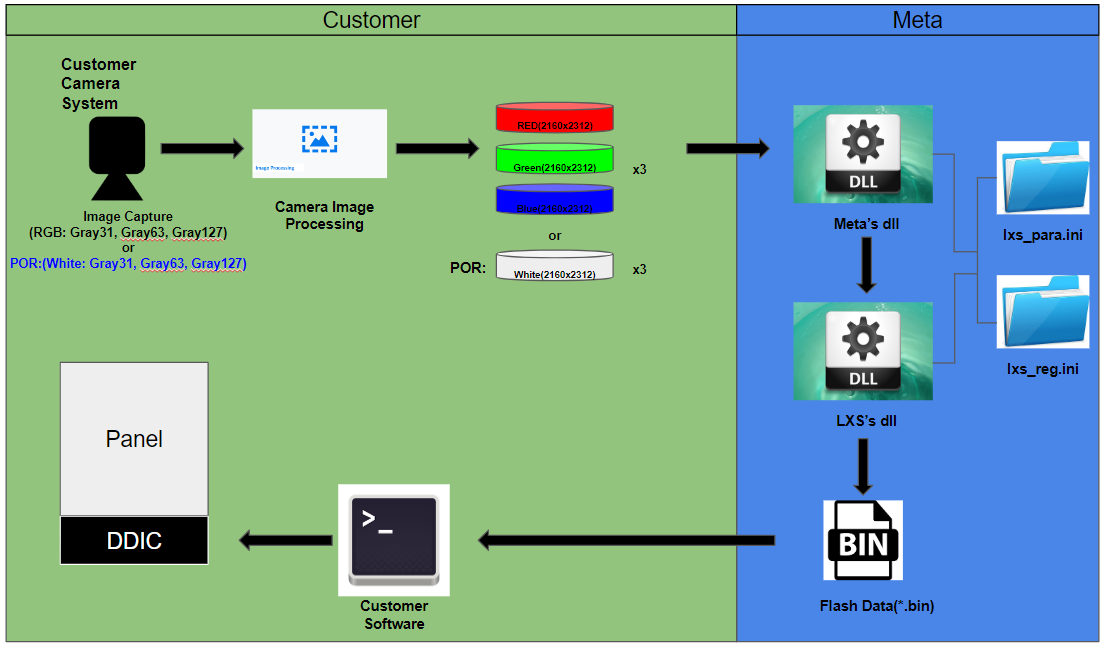
 

**Preliminary Version**

**Byung Geun (BG) Jun**

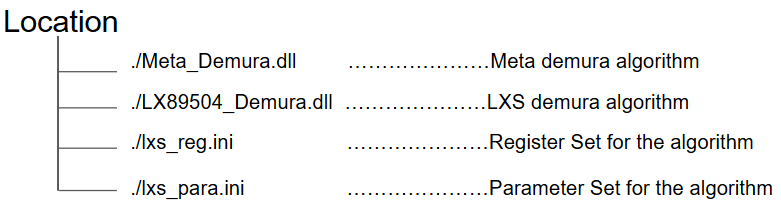
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**Meta Demura Process Flow**

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**Folder Hierarchy**

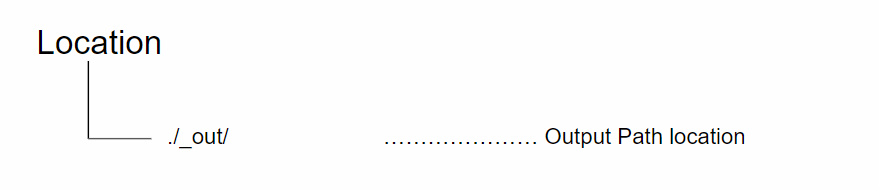
**Input**

****

**\* All Files above needs to locate in same path.**

**\* The DLL file doesn’t include version information.**

**Output**

****

**\* Output Folder path needs to be created.**

**Demura Algorithm Interface Guide**

**META’s DLL - META\_Demura.dll   
: void (\*ProcessImageFunc)(double\*\* img[3][3]);**

| **Arguments** | **I/O** | **Description** |
| --- | --- | --- |
| **img** | **I** | **RGB Raw Camera Data**  **- Format: double\*\***  **- All Camera Data from both planes and colors is stored an 2-dimensional array**  **<DMR\_MODE 0>**   | **[Plane0][R]** | **[Plane0][G]** | **[Plane0][B]** | | --- | --- | --- | | **[Plane1][R]** | **[Plane1][G]** | **[Plane1][B]** |   **<DMR\_MODE 1>**   | **[Plane0][R]** | **[Plane0][G]** | **[Plane0][B]** | | --- | --- | --- | | **[Plane1][R]** | **[Plane1][G]** | **[Plane1][B]** | | **[Plane2][R]** | **[Plane2][G]** | **[Plane2][B]** |   **<DMR\_MODE 2>**   | **[Plane0][W]** | **[Plane0][W]** | **[Plane0][W]** | | --- | --- | --- | | **[Plane1][W]** | **[Plane1][W]** | **[Plane1][W]** | | **[Plane2][W]** | **[Plane2][W]** | **[Plane2][W]** | |

**LXS’s DLL - LX89504\_Demura.dll  
: typedef bool (\*DLL\_MAIN)(double\*\* img[3][3], wchar\_t\* output\_path);**

| **Arguments** | **I/O** | **Description** |
| --- | --- | --- |
| **img** | **I** | **RGB Raw Camera Data**  **- Format: double\*\***  **- All Camera Data from both planes and colors is stored an 2-dimensional array**  **<DMR\_MODE 0>**   | **[Plane0][R]** | **[Plane0][G]** | **[Plane0][B]** | | --- | --- | --- | | **[Plane1][R]** | **[Plane1][G]** | **[Plane1][B]** |   **<DMR\_MODE 1>**   | **[Plane0][R]** | **[Plane0][G]** | **[Plane0][B]** | | --- | --- | --- | | **[Plane1][R]** | **[Plane1][G]** | **[Plane1][B]** | | **[Plane2][R]** | **[Plane2][G]** | **[Plane2][B]** |   **<DMR\_MODE 2>**   | **[Plane0][W]** | **[Plane0][W]** | **[Plane0][W]** | | --- | --- | --- | | **[Plane1][W]** | **[Plane1][W]** | **[Plane1][W]** | | **[Plane2][W]** | **[Plane2][W]** | **[Plane2][W]** | |
| **output\_path** | **O** | **LUT data(.bin) is generated in output\_path.**  **[Example]**  **Output location -> ./\_out/LUT.bin**  **Output\_path creation required -> ./\_out** |

**Demura Algorithm Platform**

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**x64: for 64bit machine**