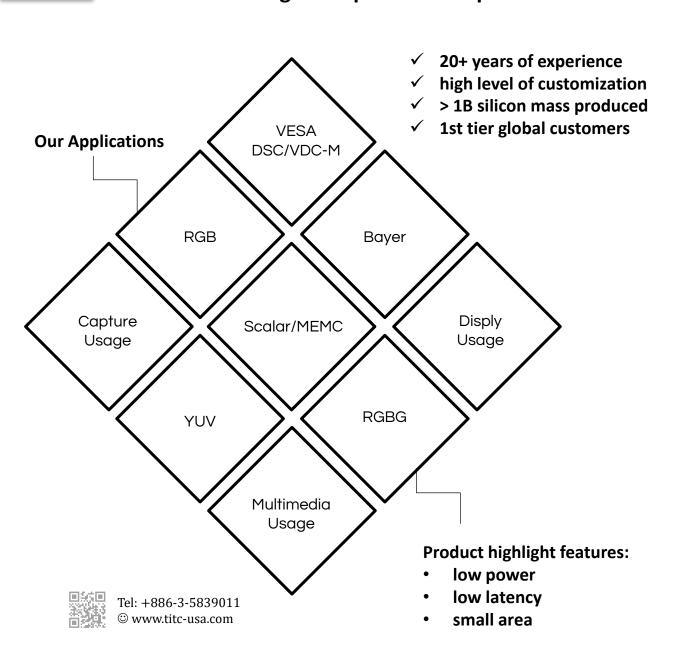


TITC

Image Compression IP specialist



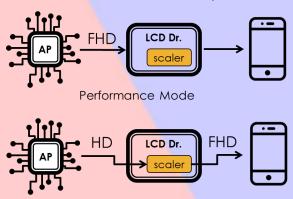


TITC NS-Series IP Niche Scalar for DDI

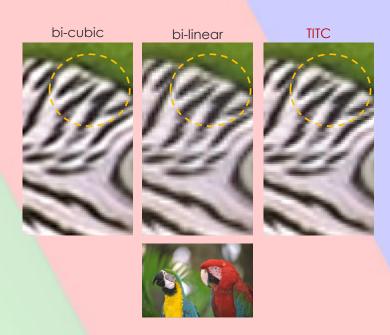
Scalar is basic, but essential image signal processing. There are several well known techniques, like nearest neighbor, bilinear, bicubic. For hardware implementation, the algorithm and line buffer cost must be in consideration.

TITC develops a novel method, that the picture quality is close to bicubic with hardware cost effective. Besides, it can also equip with edge enhancement to get higher contrast. One of applications is power saving mode in mobile phone. The AP just transmits low resolution sequences and the sequences will be scaled up to resize the panel resolution in DDI. Therefore, the transition power can be reduced.

Niche Scalar for resolution up / DDI



Efficiency Mode



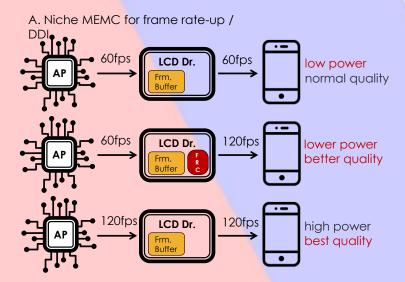
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TITC NM-Series IP Niche MEMC for DDI

The technique "Motion estimation and motion compensation(MEMC)" has been developed for a long time and used widely. In order to get perfect quality, general TV-level MEMC will adopt complex algorithms with high hardware cost.

TITC is proposing a light version MEMC solution for some specific applications. One of applications is frame rate converter in DDI. The AP just transmits low frame rate sequences and the sequences will be pumped up doubly in DDI. Therefore, the transition power can be reduced. Also, the ME kernel is also used in 3D noise reduction to predict the motion vector.



B. Niche MEMC for 3DNR / ISP



Stacking frame under low-light view



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