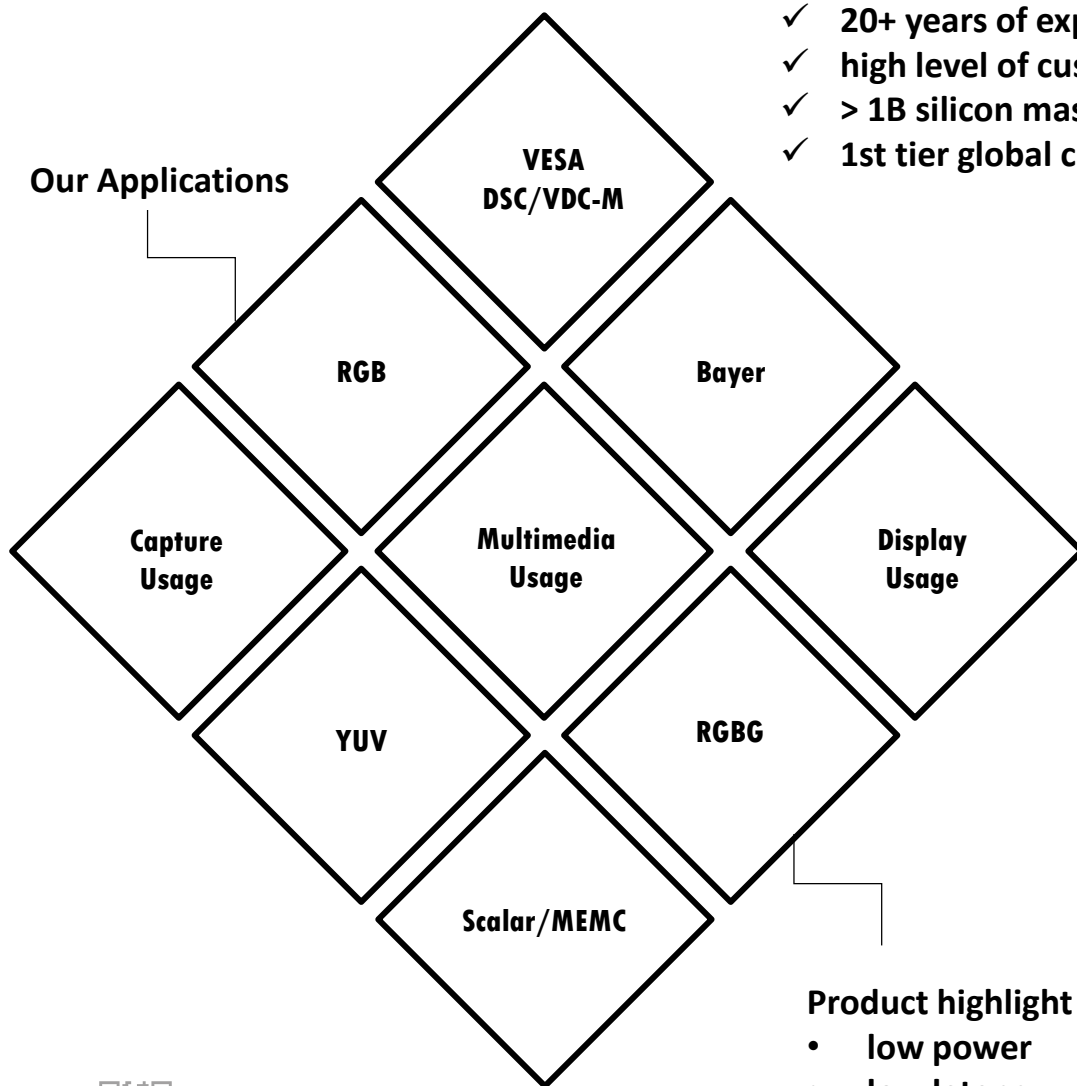


TITC

Image Compression IP specialist

- ✓ 20+ years of experience
- ✓ high level of customization
- ✓ > 1B silicon mass produced
- ✓ 1st tier global customers

Our Applications



Product highlight features:

- low power
- low latency
- small area



Tel: +886-3-5839011

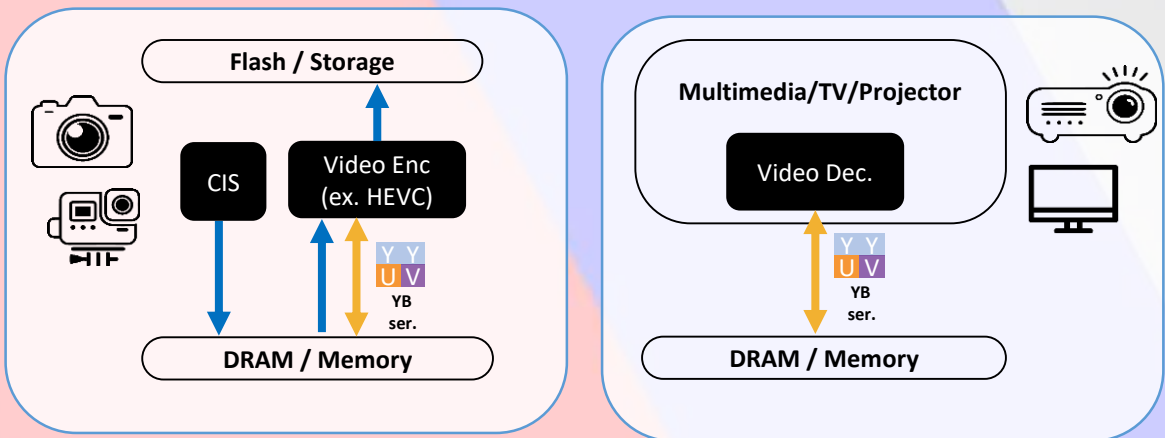
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TITC YB-Series IP

YUV for Video Encoder/Decoder

YB-series IPs are collection of proprietary algorithm which are used for real-time compress/decompress block-based YUV subsample data. These IPs/algorithm are designed for video encoding/decoding device, which facilitate temporal storage efficiency of ME(motion estimation)/MC(motion compensation) data. End products like cinema camcorder, mobile multimedia system, TV system may benefit from YB-series IPs.

YB-series IPs are featured by customized bitdepth/ratio support, reasonable hardware resources, friendly IP integration, and flexible access/store compressed bitstream. Feature support/algorithm are tailored for picture quality requirement and hardware budget via TITC engineer team.



➤ TITC YB-Series IP

| Usage / Series | | capture, multimedia / YB-series | |
|----------------|--------------|--|--|
| IP Name | | YB v1 | YB v2 |
| Data | Type | YUV422/YUV420 | YUV420/Y-Only |
| | Bit-Depth | 8/10/12-bit | 8/10-bit |
| Compression | Type | Lossy/Lossless | Lossy |
| | Ratio(Lossy) | 1.33~2X | 2~4X |
| | Unit | H4V4/ H8V8/ H8V4 | H8V8 |
| Performance | Throughput | 2-pix/4-comp (per T) | 64-comp (per T) |
| Note | | * compression unit can be customized * lossless+lossy is encouraged | * focus on high ratio, high throughput |