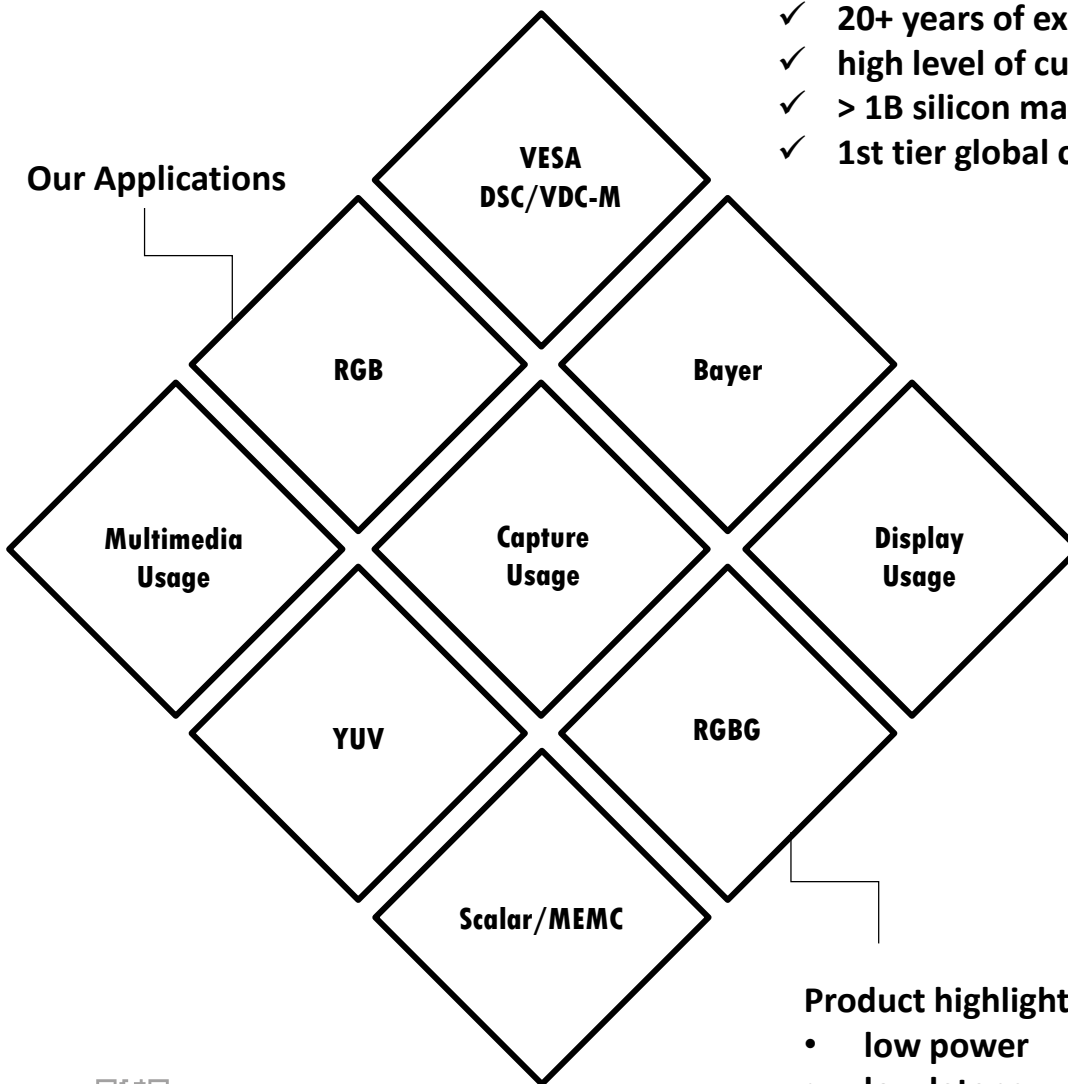# TITC

Image Compression IP specialist

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

Our Applications

- VESA DSC/VDC-M
- RGB
- Bayer
- Multimedia Usage
- Capture Usage
- Display Usage
- YUV
- RGBG
- Scalar/MEMC

Product highlight features:

- **low power**
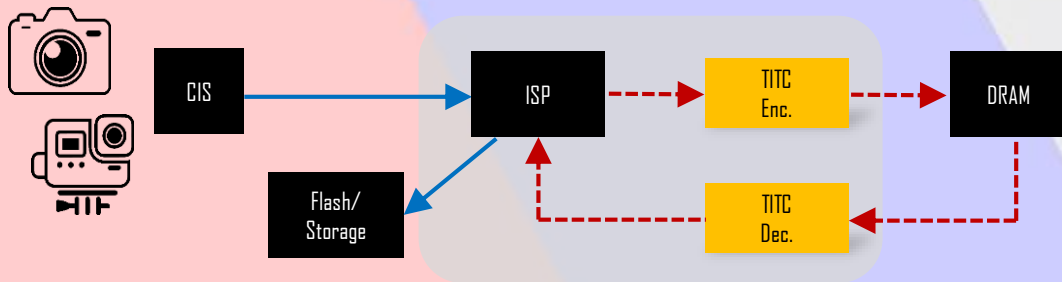- **low latency**
- **small area**

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TITC YS-Series IP
YUV for ISP

YS-series IPs are collection of propietary algorithm which are used for real-time compress/decompress YUV subsample data. These IPs/algorithm are designed for back-end of ISP device, which facilitate temporal storage efficiency of YUV subsample data. End products like ADAS, surveillance, action/ meeting/ mobile/ professional cam may benefit from YS-series IPs.

YS-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 YS-Series IP

Usage / Series		capture / YS-series	
IP Name		ISP_YUV v1	ISP_YUV v2
Data	Type	YUV422/YUV420	YUV422
	Bit-Depth	8~16-bit	8-bit
Compression	Type	Lossy/Lossless	Lossy/Lossless
	Ratio(Lossy)	1.33~4X	2~4X
	Unit	H32V2	H8V4
Performance	Throughput	2-pix/4-comp (per T)	32-comp (per T)
Note		* focus on 2X * compression unit can be customized	* focus on high ratio, high thoughput