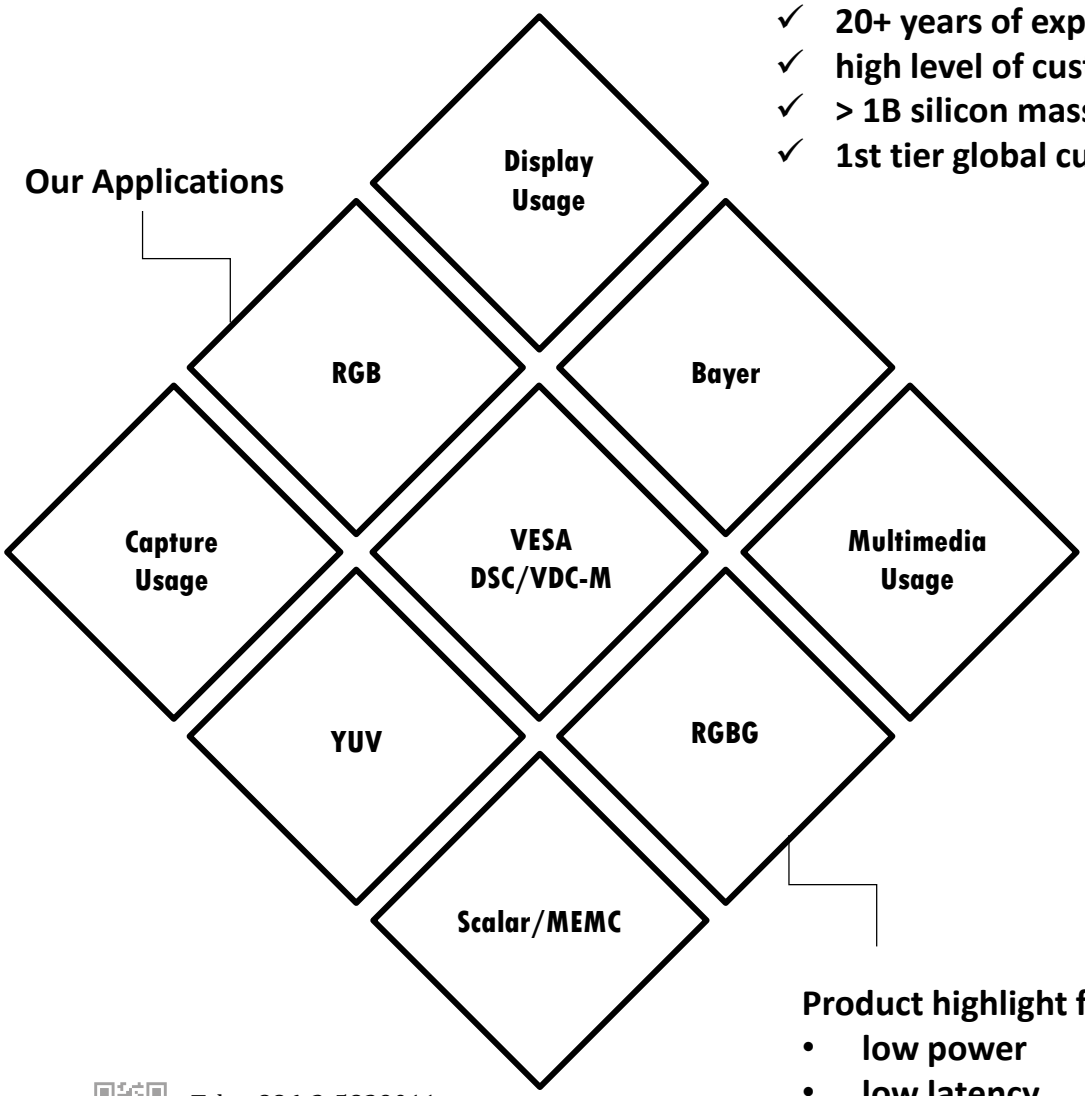
Taiwan Imaging Tek Corp.
TITC 沛錦科技

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

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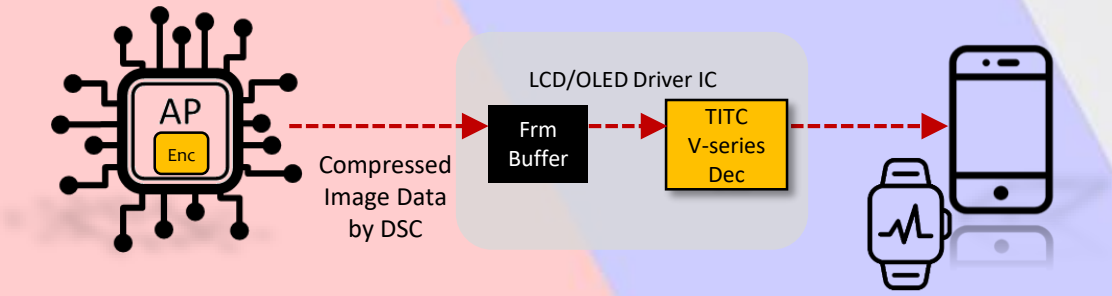
TITC V-Series IP
VESA DSC/VDC-M

VESA DSC (Display Stream Compression) and VDC-M (VESA Display Stream Compression-M) are standard which is used for compressing and decompressing image display streams. It is designed for real-time systems, with real-time compression, transmission, decompression, and display. These standard IP could be used in many applications and save the transmission cost, such as between a mobile application processor and display panel, between a computer graphics and display monitor, and so on.

TITC provides VESA DSC decoder hardware IPs which is compatible to DSC V1.1 and V1.2a, and a VDC-M decoder hardware IP. Specially, TITC provides 6P/T versions DSC decoder, which could be used for 1 slice setting. These IP are configurable in display resolution (Up to 4K, UHD+, and 8K), bits per video component (8 and 10 bits), video output formats(RGB, YCbCr444, YUV422, and YUV420), and multiple slice per line setting (1, 2, or 4). TITC also provides customized service to shrink the IP area when no need to support the whole configuration.



➢ TITC VESA IP

Usage / Series		standard/display / V-series	
IP Name		DSC v1.2a (Dec)	VDCM v1.2 (Dec)
Data	Type	RGB/YUV422/YUV420	RGB/YUV422/YUV420
	Bit-Depth	8/10-bit	8/10-bit
Compression	Type	Lossy	Lossy
	Ratio(Lossy)	up to 4X(8bit) / 5X(10bit)	up to 5X(8bit) / 6X(10bit)
	Unit	multi-slice(1/2/4)	multi-slice(1/2/4)
Performance	Throughput	3/6-pix (per T)	4-pix (per T)
Note		* available customizing for v1.1	* available customizing for v1.1.0

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