

2Q 2023

Company Overview

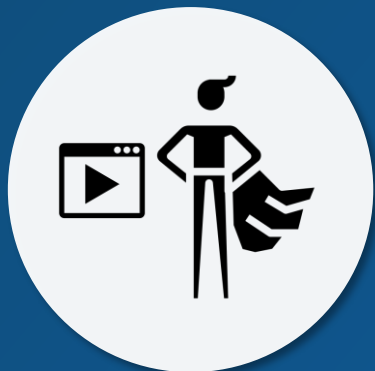
Chips&Media

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Company Introduction

C&M Business

Product Overview



Video IP Leader

Worldwide Video IP Leader

- C&M has more than 150+ worldwide licensees with global top-tier semiconductor manufacturers.
- C&M is the leading company to develop a world-first AV1 and HEVC multi-standard codec IP.



Media Solution

Multimedia IP Portfolio

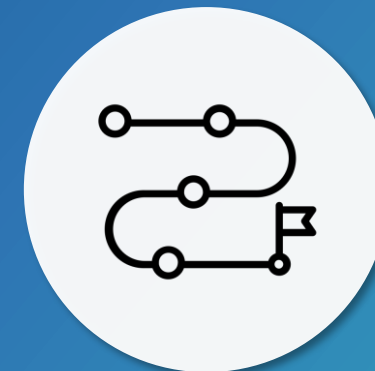
- Video codec IP
- Image codec IP
- Image signal processing IP



Design Target

Characteristic

- High performance
- Small size
- Low power consumption
- High quality



Vision

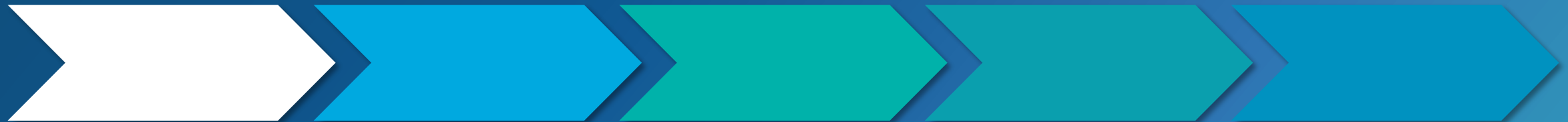
Market Leader

- AV1 and VVC codec IP

Focus on Technology

35% R&D Investment in the past three years

- Y'20 (42%)
- Y'21 (33%)
- Y'22 (30%)



2003

- Founded Chips&Media, Inc.

2004~2007

- Signed contract with MtekVision Co. to license MPEG-4 IP
- Licensed multi-standard video codecs to global companies

2008-2011

- First HDTV SoC with Chips&Media IP shipped by DTV SoC manufacturer
- Chips&Media IPs were shipped in more than 20 million units by its licensees

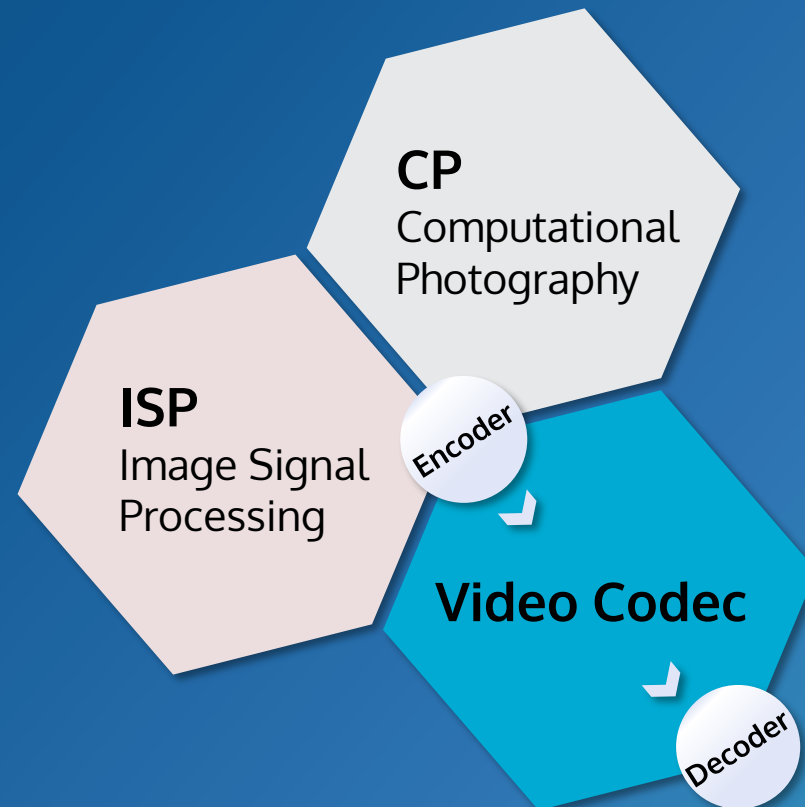
2012~2015

- Listed in KONEX
- Chips&Media IPs were shipped in more than 200 million units by its licensees
- Listed in KOSDAQ

2016~2022

- Exceeded the accumulated shipment of 1 billion semiconductors powered by Chips&Media video technology
- Achieved 3 billion won in royalty sales for four quarters in a row

C&M is a global leader in silicon HW IP and delivers a wide range of multimedia IPs. This range includes video codecs and image signal processors.



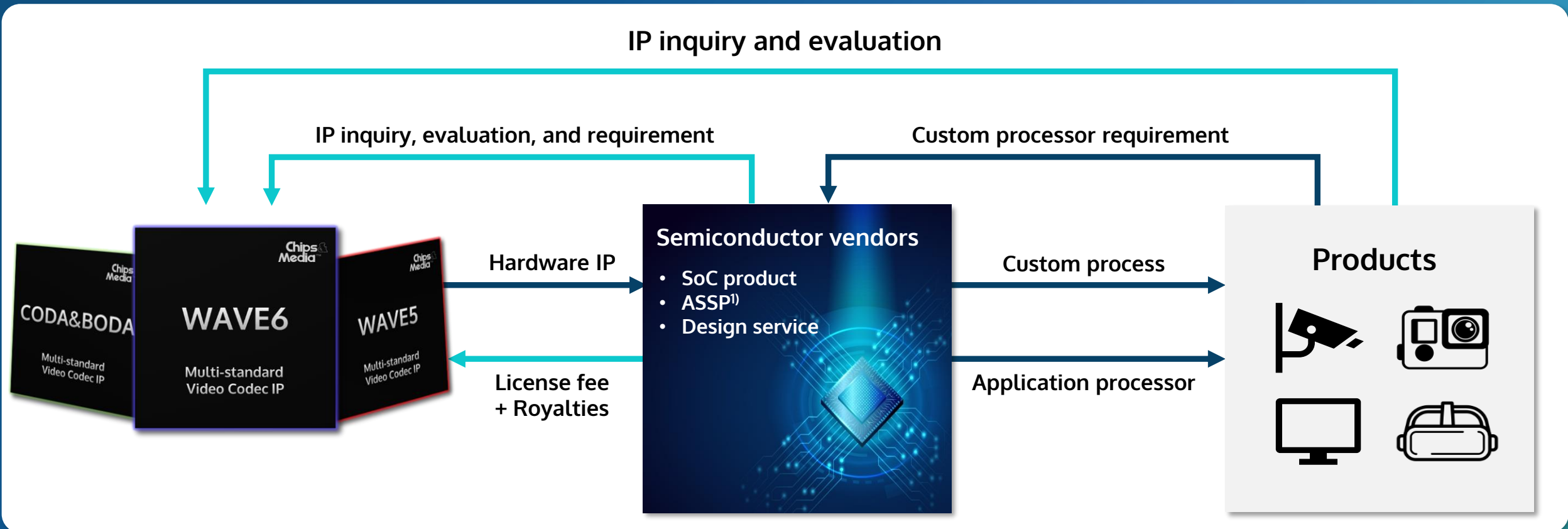
License and royalty

Type of license

- Single use of IP
- Multiple uses of IP for a period of years

Running royalties

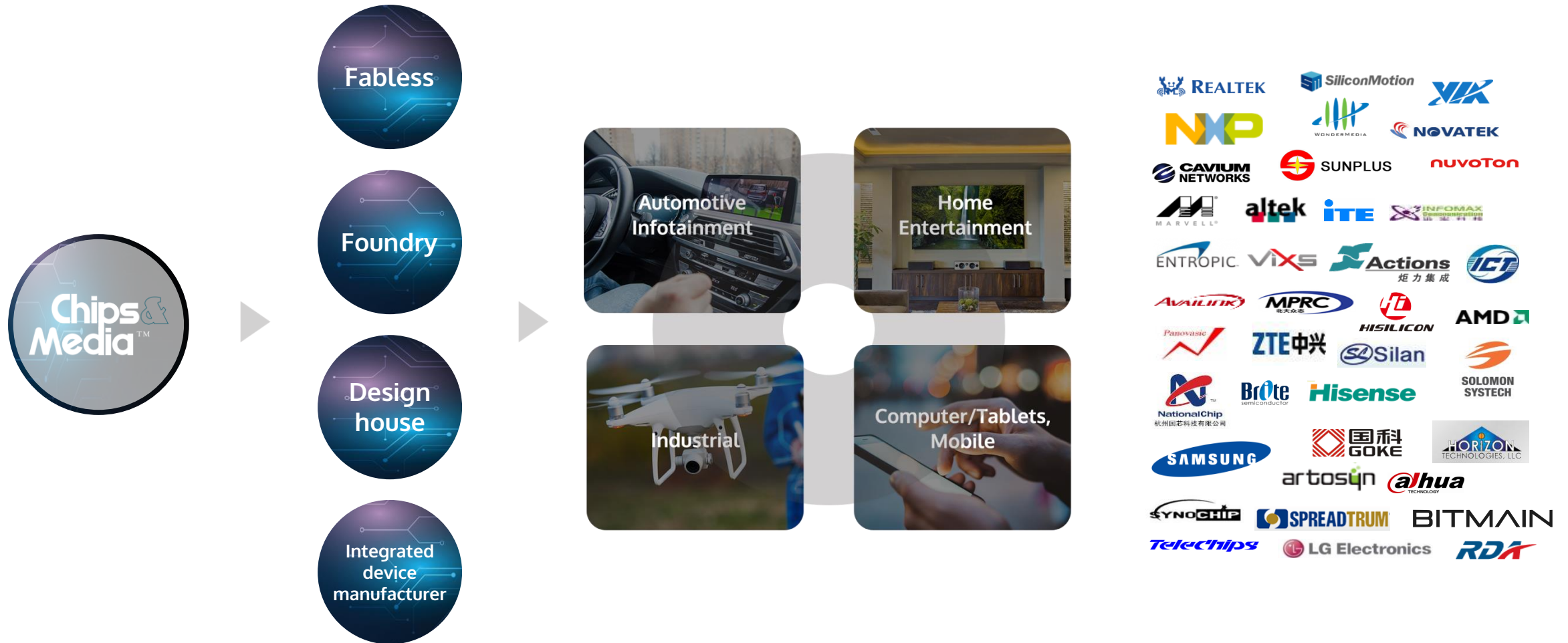
- The rate is subjected to be changed according to the volume of customer products.



1) Application Specific Standard Product (ASSP)

Business Value Chain

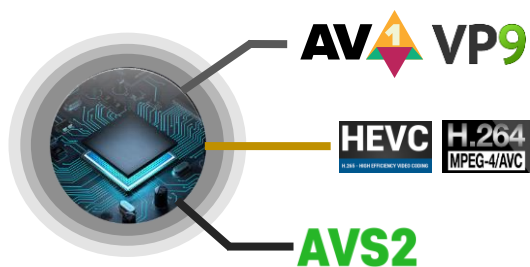
C&M has more than 150+ worldwide licensees, including global top-tier semiconductor manufacturers.



C&M CODEC HW IP Lineup

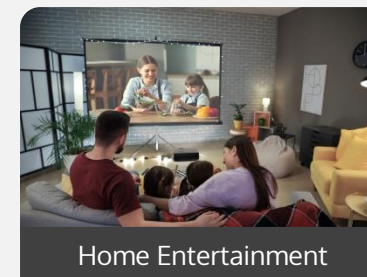
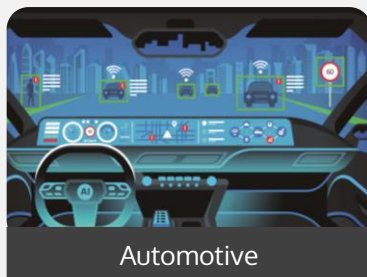
CODA/BODA and WAVE5/6 series are video codec IPs that support multi-standard video codecs with optimized competitive power, performance, and area. C&M also has still image codec IPs: CODAJ12 series.

C&M Video HW IP



	CODA/BODA	CODAJ12	WAVE5	WAVE6
Supported standards of encoder	AVC/H.264, MPEG-4, and H.263	JPEG	HEVC/H.265 and AVC/H.264	AV1, HEVC/H.265, and AVC/H.264
Supported standards of decoder	AVC/H.264, MPEG-4, H.263, and other legacy	JPEG	AV1, HEVC/H.265, AVC/H.264, VP9, and AVS2	AV1, HEVC/H.265, AVC/H.264, and VP9
Target performance	2K60fps@266MHz	290Mpixels/sec ¹⁾	4K60fps@500MHz ²⁾ 8K30fps@500MHz ³⁾	4K60fps@500MHz ²⁾ 8K30fps@500MHz ³⁾

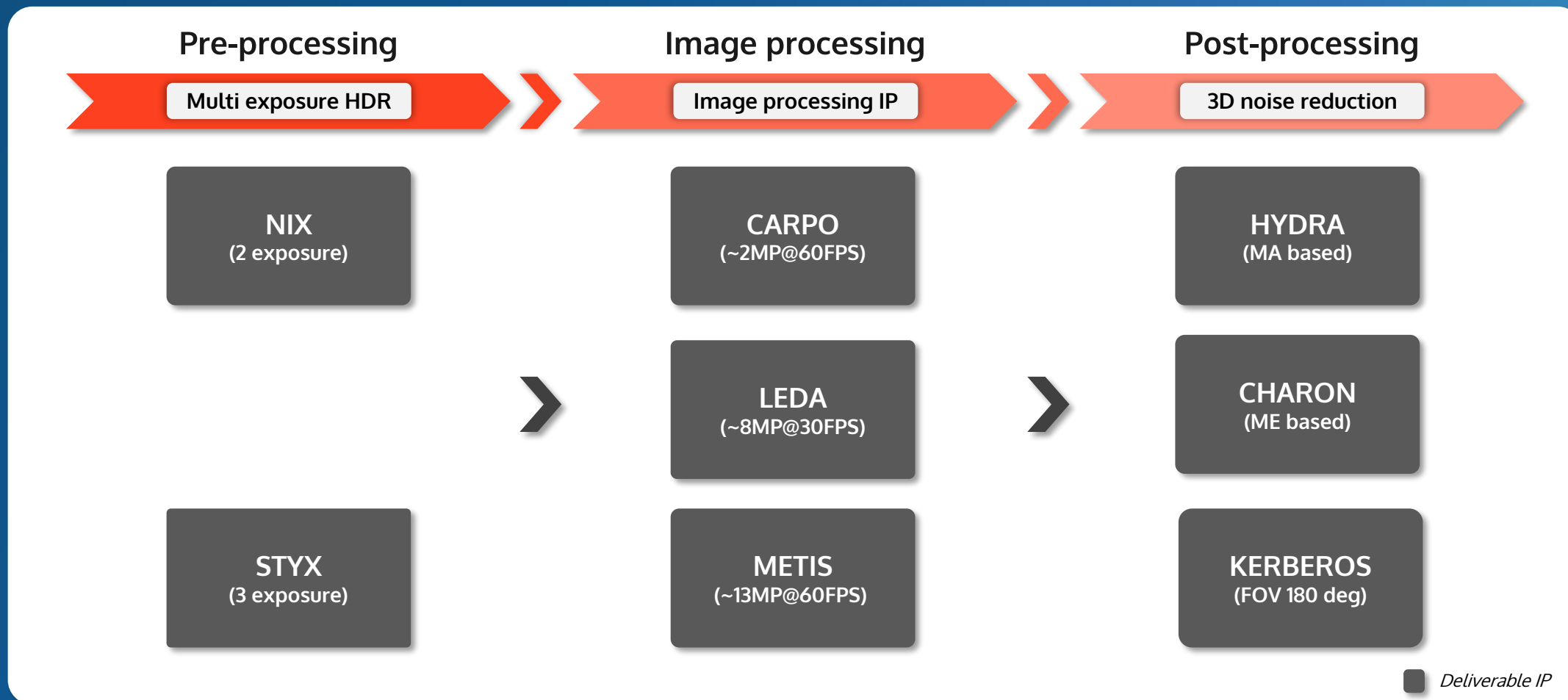
WAVE5/6 series require 1GHz for 8K60p (The performance depends on the tech node and PVT condition on the customer side)



1) CODAJ12V, YUV420, 200MHz, 2) with single-core, 3) with dual-core

Image Signal Processor IP

Image signal processor (ISP) HW IPs support pre-/post-processing and image processing. ISP HW IPs convert image signals into a better visible and processable format for multimedia processing.



THANK YOU

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