

1Q 2023

# Company Overview

Chips&Media



# Contents

**Company Introduction** 

**C&M Business** 

**Product Overview** 

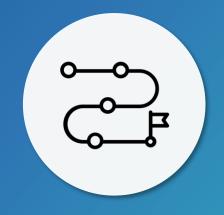
# Chips&Media, Inc. (C&M)











## Video IP Leader

#### Worldwide Video IP Leader

C&M has more than 150+ worldwide licensees with global top-tier semi-conductor manufacturers.

#### **Leading Semiconductor Video IP**

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

## **Benefits**

#### **Features**

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

### **Future**

#### **Market Leader**

AV1 and VVC codec IP

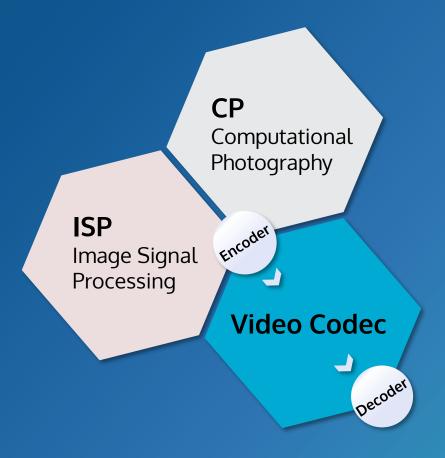
# 38% R&D Investment in the past Three-years

- Y'19(40%)
- Y'20(42%)
- Y'21 (33%)

# **C&M Portfolio**



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



## **C&M Business Model**



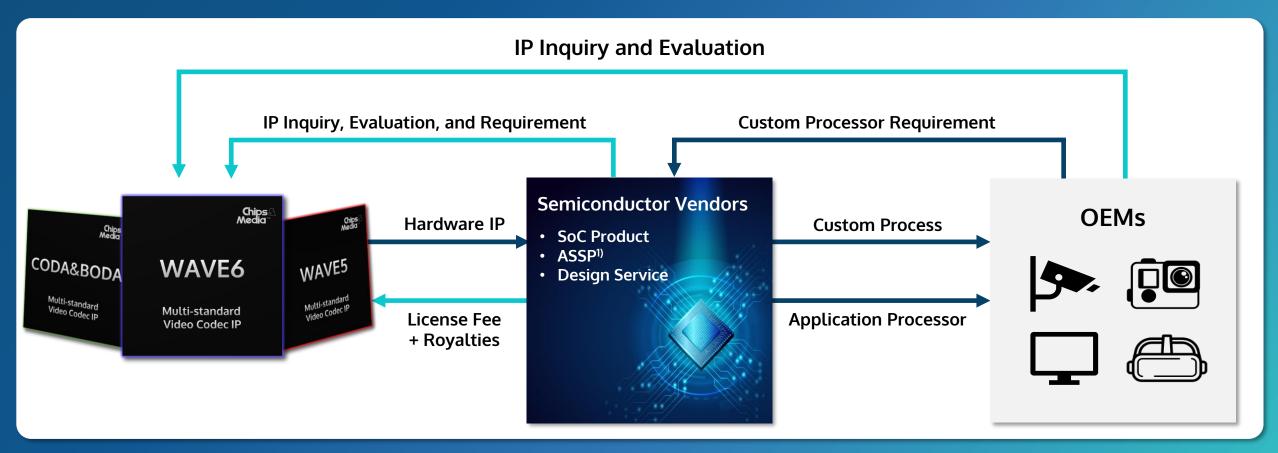
# **License and Royalty**

#### The use of IP

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

### **Running royalties**

• Tiered royalty rates: Rate changes according to chip sales (Royalty rate decreases when chip sales increase)



## **Business Value Chain**



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





















# **C&M History**



2003 2004 2005 2015 2021 Signed contract with Listed in KOSDAQ Exceeded the accumulated Founded Chips&Media, Licensed multi-standard video codecs to global MtekVision Co. to license inc. shipment of 1 billion semiconductors powered MPEG-4 IP companies by Chips&Media video

technology



# Product Overview

### **Video Codec IP**

- Multi-standard video codecs
- HEVC, H264, AV1, VP9, AVS2, and legacy

## **Image Signal Processor IP**

- 2MP, 5MP, 8MP, and 13MP ISP
- 3D noise reduction and high dynamic range

# **C&M Video Codec HW IP Lineup**



CODA/BODA and WAVE5/6 series are video codec IPs that support multi-standard video codecs with an optimized competitive PPA (Power, Performance, and Area).

#### **C&M Video HW IP**



	CODA/BODA	WAVE5	WAVE6
Supported Standards	AVC/H.264, MPEG-4, and	HEVC/H.265 and AVC/H.264	AV1,
of Encoder	H.263		HEVC/H.265, and AVC/H.264
Supported Standards of Decoder	AVC/H.264, MPEG-4, H.263,	AV1, HEVC/H.265, AVC/H.264,	AV1, HEVC/H.265, AVC/H.264,
	and other legacy	VP9, and AVS2	and VP9
Target Performance	2K60fps@266MHz	4K60fps@500MHz or 8K60fps@1GHz	4K60fps@500MHz or 8K60fps@1GHz











Home Entertainment

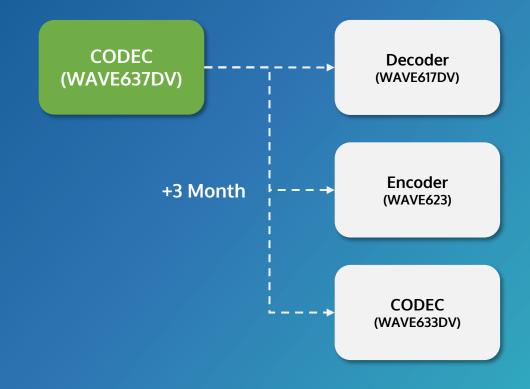
# **WAVE6 Series Lineup**



Codec IP	Ready	AV1	HEVC	AVC	VP9
Single-core					
WAVE637DV	Available	О	О	O	O
WAVE633LC	Available		О	O	
WAVE633	Available		О	0	
WAVE737DV	2H, Y24	О	О	0	O
Dual-core					
WAVE677DV	Available	О	О	О	O
WAVE677DV PX4	1H, Y23	О	О	О	О
WAVE673	Available		О	0	

Encoder IP	Ready	AV1	HEVC	AVC
Single-core				
WAVE624	Available	О		
WAVE627LC	Available	О	0	O
WAVE627	Available	О	0	O
WAVE627 PX4	1H, Y23	О	0	O
WAVE623 Gen2	2H, Y23		0	O
Dual-core				
WAVE663	Available		0	O
WAVE663 Gen2	1H, Y24		0	0

## Configurable IP (example)

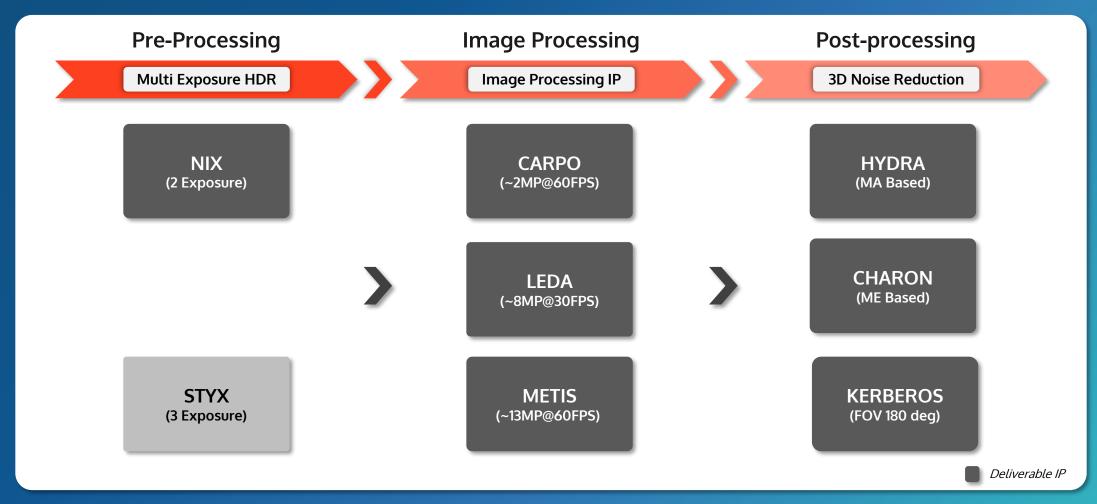


Decoder IP	Ready	AV1	HEVC	AVC	VP9	VVC
Single-core						
WAVE617DV	On-demand	О	О	О	O	

# A Wide Range of Image Signal Processor IP



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





# THANK YOU

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Visit <u>www.chipsnmedia.com</u> for more information