

# RV1109 Multimedia Codec Benchmark

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*Ver. 1.1*

June 16, 2020

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# History

Date	Author	Version	Description
2020.6.9	Herman Chen	1.0	Initialize all descriptions
2020.6.16	Francis Fan	1.1	1.Delete the description of the software codec 2.Correct the name and statement



## Notice

All the data involved in this document will be in accordance with the development progress and possible changes without notice.

The features listed in this document may or may not be present in actual product, and may be subject to the third party further licensing requirements if you want to use them.

Please contact Rockchip for actual product feature configurations and licensing requirements.

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# 1. Image

## 1.1 Image Decoder

JPEG	
<b>Image Codec</b>	JFIF file format 1.02
<b>Support Image Size</b>	48x48pixels to 8176x8176pixles
<b>Container</b>	JPG, JPEG
<b>Remarks</b>	(1) Not Support Non-interleaved Scan (2) Software support SRGB JPEG (3) Software support Adobe RGB JPEG

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## 1.2 Image Encoder

JPEG	
Image Codec	JPEG Baseline
Support Image Size	96x32pixels to 8176x8176pixles
Maximum Data Rate <sup>1</sup>	90Mpixels/Second
File Format	JFIF file format 1.02
Remarks	

<sup>1</sup> Ideal case

## 2. Video

### 2.1 Video Decoder

H.264/AVC	
Video Codec	H.264
Supported Image Size	48x48pixels to 2688x1520pixels
Maximum Frame Rate	2688x1520@30fps
Maximum Bit Rate	30Mbps
File Format	AVI, MKV, MP4, MOV, 3GP, TS, FLV
Remarks	<ul style="list-style-type: none"> <li>Support Field Coding;</li> <li>Support MBAFF</li> </ul>
H.265/HEVC	
Video Codec	H.265
Supported Image Size	48x48pixels to 2688x1520pixels
Maximum Frame Rate	2688x1520@30fps
Maximum Bit Rate	30Mbps
File Format	AVI, MKV, MP4, MOV, 3GP, TS, FLV
Remarks	
MOTION JPEG	
Video Codec	MJPEG
Supported Image Size	48x48pixels to 1920x1080pixels
Maximum Frame Rate	30fps
Maximum Bit Rate	38.4Mbps
File Format	AVI
Remarks	<ul style="list-style-type: none"> <li>90Mpixel / second</li> </ul>

## 2.2 Video Encoder

H.264/AVC	
Video Codec	H.264
Supported Image Size	144x96pixels to 2688x1520pixels
Maximum Frame Rate	2688x1520P@30fps
Maximum Bit Rate	20Mbps
File Format	MOV, 3GP
Remarks	<ul style="list-style-type: none"> <li>Not support MBAFF</li> </ul>
H.265/HEVC	
Video Codec	H.265
Supported Image Size	144x96pixels to 2688x1520pixels
Maximum Frame Rate	2688x1520@30fps
Maximum Bit Rate	20Mbps
File Format	MOV, 3GP
Remarks	