

# RV1109 Multimedia Codec Benchmark

Ver. 1.2

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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 1	1.Delete the description of the software codec	
	1.1	2.Correct the name and statement	
2020.7.7	Francis Fan	1.2	Correct the codec capabilities





### **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 futher licensing requirements if you want to use them.

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





## 1. Image

### 1.1 Image Decoder

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





#### 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>&</sup>lt;sup>1</sup> Ideal case



## 2. Video

#### 2.1 Video Decoder

H.2	264/AVC	
Video Codec	H.264	
Supported Image Size	64x64pixels to 3072x1728pixels	
Maximum Frame Rate	3072x1728@30fps	
Maximum Bit Rate	30Mbps	
File Format	AVI, MKV, MP4, MOV, 3GP, TS, FLV	
Domorko	<ul> <li>Support Field Coding;</li> </ul>	
Remarks	<ul> <li>Support MBAFF</li> </ul>	
H.20	65/HEVC	
Video Codec	H.265	
Supported Image Size	64x64pixels to 3072x1728pixels	
Maximum Frame Rate	3072x1728@30fps	
Maximum Bit Rate	30Mbps	
File Format	AVI, MKV, MP4, MOV, 3GP, TS, FLV	
Remarks		
20		
MOTION JPEG		
Video Codec	MJPEG	
Supported Image Size	48x48pixels to 1920x1080pixels	
Maximum Frame Rate	30fps	
Maximum Bit Rate	38.4Mbps	
File Format	AVI	
Remarks	90Mpixel / second	



#### 2.2 Video Encoder

H.264/AVC		
Video Codec	H.264	
Supported Image Size	144x96pixels to 3072x1728pixels	
Maximum Frame Rate	3072x1728P@30fps	
Maximum Bit Rate	20Mbps	
File Format	MOV, 3GP	
Remarks	<ul> <li>Not support MBAFF</li> </ul>	

H.265/HEVC		
Video Codec	H.265	
Supported Image Size	144x96pixels to 3072x1728pixels	
Maximum Frame Rate	3072x1728@30fps	
Maximum Bit Rate 20Mbps		
File Format	MOV, 3GP	
Remarks		
ROCKCHIL		