

# Video Decoder Support List

O refer to support

X refer to NOT support

File Extension	Container	Video Decoder	Resolution	Frame/Sec	MT5508
		XviD	1920x1080	30	O
		MPEG1	768x576	30	O
		MPEG2 MP@HL	1920x1080	30	O
		H.264 BP LV 4.0 (**2)	1920x1080	30	O
		H.264 MP LV 4.0	1920x1080	30	O
		H.264 HP LV 4.0	1920x1080	30	O
		H.264 HP10 LV 4.0	1920x1080	60	O
		H.264 HP LV 5.1	4096x2304	30	O
		H.264 HP LV 5.2	4096x2304	60	X
		H.264 H10P LV 5.1	4096x2304	30	O
		H.264 H10P LV 5.2	4096x2304	60	X
		H.265 Main profile @ Level 4.1	1920x1080	60	O
		H.265 Main10 profile @ Level 4.1	1920x1080	60	O
		H.265 Main profile @ Level 5.0	4096x2304	30	O
		H.265 Main10 profile @ Level 5.0	4096x2304	30	O
		H.265 Main profile @ Level 5.1	4096x2304	60	X
		H.265 Main10 profile @ Level 5.1	4096x2304	60	X
		H.265 Still picture profile	16888x16888		O
		MPEG-4 SP@HL 3.0	1920x1080	30	O
		MPEG-4 ASP@HL 4.0 (**1)	1920x1080	30	O
		Motion JPEG	1920x1080	30	O
		Window Media Video v9	1920x1080	30	O
		H263	1920x1080	30	O
		Window Media Video v9 advanced	1920x1080	30	O
*.wmv *.asf	ASF	Window Media Video v9 advanced	1920x1080	30	O
		XviD	1920x1080	30	O
		MPEG-4 SP@HL 3.0	1920x1080	30	O
		MPEG-4 ASP@HL 4.0 (**1)	1920x1080	30	O
		H264	1920x1080	30	O
		Motion JPEG	1920x1080	30	O
		Window Media Video v9	1920x1080	30	O
*.mp4 *.mov *.3gp	MP4	H.264 BP LV 4.0 (**2)	1920x1080	30	O
		H.264 MP LV 4.0	1920x1080	30	O
		H.264 HP LV 4.0	1920x1080	30	O
		H.264 HP10 LV 4.0	1920x1080	60	O
		H.264 HP LV 5.1	4096x2304	30	O
		H.264 HP LV 5.2	4096x2304	60	X
		H.264 H10P LV 5.1	4096x2304	30	O
		H.264 H10P LV 5.2	4096x2304	60	X
		H.265 Main profile @ Level 4.1	1920x1080	60	O
		H.265 Main10 profile @ Level 4.1	1920x1080	60	O
		H.265 Main profile @ Level 5.0	4096x2304	30	O
		H.265 Main10 profile @ Level 5.0	4096x2304	30	O
		H.265 Main profile @ Level 5.1	4096x2304	60	X
		H.265 Main10 profile @ Level 5.1	4096x2304	60	X
		H.265 Still picture profile	16888x16888		O
		MPEG-4 SP@HL 3.0	1920x1080	30	O

		MPEG-4 ASP@HL 4.0 (**1)	1920x1080	30	O
		Window Media Video v9	1920x1080	30	O
		VP8	1920x1080	30	O
		VC-1	1920x1080	30	O
		H263	1920x1080	30	O
		Motion JPEG	1920x1080	30	O
*.mkv *.WebM	MKV	H.264 BP LV 4.0 (**2)	1920x1080	30	O
		H.264 MP LV 4.0	1920x1080	30	O
		H.264 HP LV 4.0	1920x1080	30	O
		H.264 HP10 LV 4.0	1920x1080	60	O
		H.264 HP LV 5.1	4096x2304	30	O
		H.264 HP LV 5.2	4096x2304	60	X
		H.264 H10P LV 5.1	4096x2304	30	O
		H.264 H10P LV 5.2	4096x2304	60	X
		H.265 Main profile @ Level 4.1	1920x1080	60	O
		H.265 Main10 profile @ Level 4.1	1920x1080	60	O
		H.265 Main profile @ Level 5.0	4096x2304	30	O
		H.265 Main10 profile @ Level 5.0	4096x2304	30	O
		H.265 Main profile @ Level 5.1	4096x2304	60	X
		H.265 Main10 profile @ Level 5.1	4096x2304	60	X
		H.265 Still picture profile	16888x16888		O
		MPEG-4 SP@HL 3.0	1920x1080	30	O
		MPEG-4 ASP@HL 4.0 (**1)	1920x1080	30	O
		Window Media Video v9	1920x1080	30	O
		VP8	1920x1080	30	O
		VC-1	1920x1080	30	O
		Motion JPEG	1920x1080	30	O
		Window Media Video v9	1920x1080	30	O
*.mpg *.mpeg *.vro *.vob	PS (Program Stream)	MPEG1	768x576	30	O
		MPEG2 MP@HL	1920x1080	30	O
Others (ts)	TS (Transport Stream)	MPEG2 MP@HL	1920x1080	30	O
		VC-1	1920x1080	30	O
		H.264 BP LV 4.0 (**2)	1920x1080	30	O
		H.264 MP LV 4.0	1920x1080	30	O
		H.264 HP LV 4.0	1920x1080	30	O
		H.264 HP10 LV 4.0	1920x1080	60	O
		H.264 MVC	1920x1080	60	O
		H.264 HP LV 5.1	4096x2304	30	O
		H.264 HP LV 5.2	4096x2304	60	X
		H.264 H10P LV 5.1	4096x2304	30	O
		H.264 H10P LV 5.2	4096x2304	60	X
		H.265 Main profile @ Level 4.1 (**4)	1920x1080	60	O
		H.265 Main10 profile @ Level 4.1	1920x1080	60	O
		H.265 Main profile @ Level 5.0	4096x2304	30	O
		H.265 Main10 profile @ Level 5.0	4096x2304	30	O
		H.265 Main profile @ Level 5.1	4096x2304	60	X
		H.265 Main10 profile @ Level 5.1	4096x2304	60	X
		H.265 Still picture profile	16888x16888		O
		AVS Jizhun Profile LV 6.0	1920x1080	30	O

		AVS Plus	1920x1080	30	O
.rm	RM	Legacy (rv10, rv13)	1920x1080	30	X
		RV G2 (rv20)	1920x1080	30	X
		RV 8 (rv30)	1920x1080	30	O
		RV 9 (rv40)	1920x1080	30	O
		RV 10 (rv40)	1920x1080	30	O
.OGM	OGG	MPEG2 MP@HL	1920x1080	30	O
		MPEG-4 SP@HL 3.0	1920x1080	30	O
		MPEG-4 ASP@HL 4.0 (**1)	1920x1080	30	O
		H264	1920x1080	30	O
		Motion JPEG	1920x1080	30	O
.FLV	FLV	Sorenson	352x288	30	O
		VP6 (**3)	1920x1080	30	O
		H.264 BP LV 4.0 (**2)	1920x1080	30	O
		H.264 MP LV 4.0	1920x1080	30	O
		H.264 HP LV 4.0	1920x1080	30	O
		H.264 HP10 LV 4.0	1920x1080	60	O
		Motion JPEG	1920x1080	30	O
		MPG4	1920x1080	30	O

Note:	
1	For MPEG4 ASP profile, B-VOP and 4MV are supported. GMC is supported but only one point is allowed.
2	For H.264 BP profile, No support for FMO, ASO & redundant slice.
3	VP6 only support VP61 and VP62 profile.
4	H.265 NO supprt (pic_width <= 128)    (pi_height <= 64) <b>NOTE:</b> <b>Whatever container type,all H.265 profile &amp; level follow this HW limitation</b>

Newway

Audio Decoder Support List
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O refer to support

X refer to NOT support

P refer to planning (under development)

File Extension	Container	Audio Decoder (For MM Video)	MT5508
*.avi	AVI	wav: PCM / ADPCM / A-law PCM / u-law PCM	O(**3)
		MPEG1 Layer1/2	O
		MP3 (MPEG1 Layer3)	O
		MPEG2 AAC(AAC-LC)	O
		MPEG4 AAC-LC	O
		MPEG4 HE-AAC v2	O
		AC3	O
		WMA v8	O
*.wma *.wmv *.asf	ASF	WMA v8	O
		MP3 (MPEG1 Layer3)	O
		WMA v9	O
		WMA Pro	O(**1)
*.mp4 *.3gp	MP4	MPEG1 Layer1/2	O
		MP3 (MPEG1 Layer3)	O
		MPEG2 AAC(AAC-LC)	O
		MPEG4 AAC-LC	O
		MPEG4 HE-AAC v2	O
		AMR-NB, AMR-WB	O
*.mpg *.mpeg *.vro *.vob	PS	MPEG1 Layer1/2	O
		MP3 (MPEG1 Layer3)	O
		AC3	O
		DVD LPCM	O
		Dolby Digital EX, Dolby Digital Plus, Dolby TrueHD	O
Others (ts)	TS	MPEG1 Layer1/2 (MPEG2)	O
		MPEG2 AAC(AAC-LC) (H.264)	O
		MPEG4 AAC-LC (H.264)	O
		MPEG4 HE-AAC v2 (H.264)	O
		AC3 (MPEG2, ATSC, H.264)	O
		Dolby Digital Plus (H.264)	O
		DVD LPCM	O
		Dolby Digital Plus, Dolby lossless	O
.rm	RM	dnet: AC3 (RealAudio3)	O
		cook: COOK (RealAudio6)	O
		raac: MPEG4 AAC-LC (RealAudio9)	O
		racp: MPEG4 HE-AAC v2 (RealAudio10)	O
.flv	FLV	MPEG1 Layer1/2	O
		MP3 (MPEG1 Layer3)	O
		MPEG2 AAC(AAC-LC)	O
		MPEG4 AAC-LC	O
		MPEG4 HE-AAC v2	O
*.mkv	MKV	wav: PCM / ADPCM / A-law PCM / u-law PCM	O(**3)
		MPEG1 Layer1/2	O
		MP3 (MPEG1 Layer3)	O
		MPEG2 AAC(AAC-LC)	O
		MPEG4 AAC-LC	O
		MPEG4 HE-AAC v2	O

		AC3	0
		WMA v8	0
		VORBIS	0(**2)
*.flac	FLAC	FLAC	0
*.ape	APE	APE	0
*.mp3 *.mp2	MP3/MP2	MPEG1 Layer1/2 MP3 (MPEG1 Layer3)	0

Note:	
1	WMAPro support restriction 1. Multi-Channel only support 6 (5.1) channels. 2. Maximum sampling rate 48KHz. 3. Pure Lossless profile not support. 4. WMA10Pro LBR v2, v3 not support
2	Vorbis Support restriction 1. Multi-Channel only support 6 (5.1) channels
3	Wav - PCM support Signed/Unsigned 8bit PCM Signed/Unsigned 16bit PCM (big / little endian) 24bit PCM (big endian) DVD LPCM 16/20/24bit a-/u-law PCM MS/IMA ADPCM

## Image Decoder Support List

O refer to support

X refer to NOT support

SW refer to software decoder

P refer to planning (under development)

File Extension	Container	Data Type	MT5508(**3)
*.jpg	JPEG	baseline	O (H/W)
		progressive	O (H/W)
*.bmp	BMP	(Note 1**)	O (S/W)
*.png	PNG	(Note 2**)	O (H/W)
*.gif	GIF	static	O (S/W)
.webp	WEBP	3d	O (S/W)
.mpo	MPO	3d	O (S/W)
.jps	JPEG	3d baseline	O (S/W)
.pns	PNG	3d	O (S/W)

Picture Type	Max Width	Max Height
JPEG Baseline	17000	10000
JPEG Progressive	4000	4000
BMP	16383	16383
PNG	4096	5760
GIF	7000	7000

Note:	
1	Support both uncompress mode and run length encoding (RLE) mode.
2	Support gray level mode, palette index and truecolor mode.
3	BMP and GIF support is implemented by SW, so the decoding speed depends on CPU performace.