

# clarion



MP3 / WMA / AAC / USB Features

MODEL		CMV1						CZ509, CZ309, CX609, CMDE, M309						CZ209				CZ109, M109		FZ709, FZ409		
MEDIA		DVD		USB		CD		USB		CD		USB		CD		USB		AAC				
FILES		WMA	MP3	AAC	WMA	MP3	AAC	WMA	MP3	AAC	WMA	MP3	AAC	WMA	MP3	AAC	WMA	MP3	AAC			
FILE SYSTEM	ISO9660	LEVEL1	•					•						•								
		LEVEL2	•					•						•								
		LEVEL3	•					•						•								
	ISO9660 EXTENSION	JOJLET																				
		FILE NAME	64-bytes						64-bytes						32bytes							
	OTHERS	ROMEO																				
		FILE NAME	64-bytes						64-bytes						32bytes							
	FAT	APPLE ISO	-						-					-								
		FAT12	-						-					-								
		FAT16	-						-					-								
FAT32		-						-					-									
FILE DESCRIPTOR	.mp3																					
	.Mp3 / .Mp3 / .MP3																					
	.wma	•												•								
	.WMA																					
	.m4a			•																		
MP3G FORMAT	MPEG1 / 2 Audio Layer3																					
	MPEG2 Audio Layer3 (LSF)																					
	MPEG2.5																					
	MPEG2.5																					
SAMPLING FREQUENCY	MPEG1 / 2 Audio Layer3	48, 44.1, 32(kHz)			48, 44.1, 32(kHz)			48, 44.1, 32(kHz)			48, 44.1, 32(kHz)			32kHz, 44.1kHz, 48kHz		32kHz, 44.1kHz, 48kHz		32kHz, 44.1kHz, 48kHz		48, 44.1, 32(kHz)		
	MPEG2 Audio Layer3 (LSF)	24, 22.05, 16(kHz)			24, 22.05, 16(kHz)			24, 22.05, 16(kHz)			24, 22.05, 16(kHz)			16kHz, 22.05kHz, 24kHz		16kHz, 22.05kHz, 24kHz		16kHz, 22.05kHz, 24kHz		24, 22.05, 16(kHz)		
	MPEG2.5	12, 11.025, 8(kHz)			12, 11.025, 8(kHz)			12, 11.025, 8(kHz)			12, 11.025, 8(kHz)			8kHz, 11.025kHz, 12kHz		8kHz, 11.025kHz, 12kHz		8kHz, 11.025kHz, 12kHz		12, 11.025, 8(kHz)		
	WMA	Fe-22.05, 32, 44.1, 48kHz (WMA V2/V7/V8) Fe-44.1kHz (WMA V9L1)			Fe-22.05, 32, 44.1, 48kHz (WMA V2/V7/V8) Fe-44.1kHz (WMA V9L1)			Fe-22.05, 32, 44.1, 48kHz (WMA V2/V7/V8) Fe-44.1kHz (WMA V9L1)			Fe-22.05, 32, 44.1, 48kHz (WMA V2/V7/V8) Fe-44.1kHz (WMA V9L1)			22.05kHz, 32kHz, 44.1kHz, 48kHz		22.05kHz, 32kHz, 44.1kHz, 48kHz		22.05kHz, 32kHz, 44.1kHz, 48kHz		Fe-22.05, 32, 44.1, 48kHz (WMA V2/V7/V8) Fe-44.1kHz (WMA V9L1)		
AAC	AAC	48,44.1, 32.24, 22.05, 16, 12, 11.025, 8(kHz)			48,44.1, 32.24, 22.05, 16, 12, 11.025, 8(kHz)			48,44.1, 32.24, 22.05, 16, 12, 11.025, 8(kHz)			48,44.1, 32.24, 22.05, 16, 12, 11.025, 8(kHz)			22.05kHz, 32kHz, 44.1kHz, 48kHz		22.05kHz, 32kHz, 44.1kHz, 48kHz		22.05kHz, 32kHz, 44.1kHz, 48kHz		48,44.1, 32.24, 22.05, 16, 12, 11.025, 8(kHz)		
	MPEG1 / 2 Audio Layer3	32-320kbps			32-320kbps			32-320kbps			32-320kbps			32-320kbps		32-320kbps		32-320kbps		32-320kbps		
	MPEG2 Audio Layer3 (LSF)	8-160kbps			8-160kbps			8-160kbps			8-160kbps			8-160kbps		8-160kbps		8-160kbps		8-160kbps		
	MPEG2.5	8-160kbps			8-160kbps			8-160kbps			8-160kbps			8-160kbps		8-160kbps		8-160kbps		8-160kbps		
BITRATE	WMA	32, 36, 40, 44, 48, 64, 128, 160, 192kbps (WMA V2/V7/V8) 64, 80, 96, 128, 160kbps (WMA V9L1)			32, 36, 40, 44, 48, 64, 128, 160, 192kbps (WMA V2/V7/V8) 64, 80, 96, 128, 160kbps (WMA V9L1)			32, 36, 40, 44, 48, 64, 128, 160, 192kbps (WMA V2/V7/V8) 64, 80, 96, 128, 160kbps (WMA V9L1)			32, 36, 40, 44, 48, 64, 128, 160, 192kbps (WMA V2/V7/V8) 64, 80, 96, 128, 160kbps (WMA V9L1)			16, 20, 32, 36, 40, 44, 48, 64, 80, 96, 128, 160, 192		16, 20, 32, 36, 40, 44, 48, 64, 80, 96, 128, 160, 192		16, 20, 32, 36, 40, 44, 48, 64, 80, 96, 128, 160, 192		16, 20, 32, 36, 40, 44, 48, 64, 80, 96, 128, 160, 192		32, 36, 40, 44, 48, 64, 128, 160, 192kbps (WMA V2/V7/V8) 64, 80, 96, 128, 160kbps (WMA V9L1)
	AAC	8-320 kbps (stream generated with iTunes Ver 4.7.1.30 (M4A))			8-320 kbps (stream generated with iTunes Ver 4.7.1.30 (M4A))			8-320 kbps (stream generated with iTunes Ver 4.7.1.30 (M4A))			8-320 kbps (stream generated with iTunes Ver 4.7.1.30 (M4A))			8-320 kbps (stream generated with iTunes Ver 4.7.1.30 (M4A))		8-320 kbps (stream generated with iTunes Ver 4.7.1.30 (M4A))		8-320 kbps (stream generated with iTunes Ver 4.7.1.30 (M4A))		8-320 kbps (stream generated with iTunes Ver 4.7.1.30 (M4A))		
	DIRECTORY DEPTH	MAX 8			MAX 8			MAX 8			MAX 8			MAX255		MAX 8		MAX255		MAX 8		
	FILE NAME NUMBER	64-bytes			64-bytes			64-bytes			64-bytes			32bytes		64bytes		64bytes		32bytes		64bytes
TOTAL FILE NUMBER	510			130560			510			130560			999		65535		999		999		130560	
TOTAL FOLDER NUMBER	255			512			255			512			255		256		255		255		512	
FILE NUMBER VIA FOLDER	255			255			255			255			999		999		999		999		255	
OTHERS	ID3 TAG	ver-1.x	•											•								
		ver-2.x	•											•								
		TITLE	•												•							
		ARTIST	•												•							
		ALBUM	•												•							
	WMA TAG	TITLE	•												•							
		ARTIST	•												•							
		ALBUM	•												•							
	VBR	•												•								
	CODEC	Support for WMA7, WMA8, WMA9, WMA9.1 Lossless voice Not support			Support for WMA7, WMA8, WMA9, WMA9.1 Lossless voice Not support			Support for WMA7, WMA8, WMA9, WMA9.1 Lossless voice Not support			Support for WMA7, WMA8, WMA9, WMA9.1 Lossless voice Not support			Support for WMA7.89, 9.1.92/ Lossless voice Not support		Support for WMA7.89, 9.1.92/ Lossless voice Not support		Support for WMA7.89, 9.1.92/ Lossless voice Not support		Support for WMA7, WMA8, WMA9, WMA9.1 Lossless voice Not support		

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**WARNING: Driver is prohibited by law from viewing a video signal on any in-dash monitor while the vehicle is in motion.**

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