

GENERAL INFORMATION

Please Note:

- Files created with non-compliant encoder settings are prone to cause audio dropouts and/or stuttering picture performance.
- After device start-up and during periods of increased CPU load, audio and video file playback can be affected by brief audio dropouts.
- In particular, USB mass storage devices must be formatted correctly before use. Read-in and track list processing times can be adversely affected by the memory controller resident on the mass storage device.

SUPPORTED AUDIO FORMATS (Compatibility with digital audio files)

Audio File Type	Detailed Information	
MP3 (MPEG Audio Layer III)	File Extension	.mp3
	Format	MPEG 1/2/3 Audio Layer 2&3 File
	Bitrate	8 ~ 320 kbps
	ID3Tag	ID3v1, ID3v2
	(Title / Artist / Album / Genre)	ID3v2.3, ID3v2.4
FLAC	File Extension	.flac
	Format	Free Lossless Audio Codec
	Sampling Frequency	8 ~ 192 KHz (8/ 22.05/ 24/ 32/ 44.1/ 48/ 192 KHz)
	Bitrate	16 / 24 bit / 32 bit
AAC	File Extension	.m4a
	Format	Advanced Audio Coding
	Sampling Frequency	8 ~ 96 KHz
	Bitrate	8 ~ 320 kbps
WAV	File Extension	.wav .pcm / pcm
	Format	Waveform Audio File Format
	Sampling Frequency	16 ~ 192 KHz
	Bitrate	16 / 24 bit
WMA	File Extension	.wma
	Format	Windows Media Audio Format
	Bitrate	8 ~ 320 kbps
	WMA Tag (Title/ Artist/ Album)	WAA Standard Tag Format
	WMA Normal Supported	YES
	WMA Pro Supported	YES
	WMA Lossless Supported	YES
APE	File Extension	.ape
	Format	Monkey's Audio
	Sampling Frequency	8 ~ 96 KHz
	Bitrate	16 / 24 bit

SUPPORTED VIDEO FORMATS (Compatibility with digital video files)

Video File Type	Detailed Information	
MPEG	File Extension	.mpg .mpeg .dat .vob .m2v
	Format	MPEG-1&2
	Video Bitrate	max. 40 mpbs
	Video Frame Rate	30 fps
	Resolution	max. 1080P
	Audio Bitrate	32 ~ 320 kbps VBR (variable Bitrate)
H.264 / MPEG 4 (H.264/MPEG-4 AVC)	File Extension	.mp4 .avi .flv ASF .m4v
	Format	H.264 / MPEG 4 XVID
	Video Bitrate	max. 40 mpbs
	Video Frame Rate	30 fps
	Resolution	max. 1080P
	Audio Bitrate	8 ~ 320 kbps VBR (variable Bitrate)
	Audio Format	AAC, MP3, MPEG
MP4 (MPEG-4)	File Extension	.mp4 .mov .m4v
	Format	MP4 (MPEG-4 Part 14)
	Video Bitrate	max. 40 mpbs
	Video Frame Rate	30 fps
	Resolution	max. 1080P
	Audio Bitrate	8 ~ 320 kbps VBR (variable Bitrate)
	Audio Format	AAC, MP3, MPEG
AVI	File Extension	.avi .xvid .divx
	Format	Audio Video Interleave
	Video Bitrate	max. 40 mpbs
	Video Frame Rate	30 fps
	Resolution	max. 1080P
	Audio Bitrate	8 ~ 320 kbps
	Audio Format	MP3, MPEG, AAC, FLAC, AC3

SUPPORTED VIDEO FORMATS (Compatibility with digital video files)

Video File Type	Detailed Information	
MKV	File Extension	.mkv
	Format	Matroska H.264, MPEG 1-2-4
	Video Bitrate	max. 40 mpbs
	Video Frame Rate	30 fps
	Resolution	max. 1080P
	Audio Bitrate	8 ~ 320 kbps VBR (variable Bitrate)
	Audio Format	MP3, MPEG, AAC, FLAC, AC3
ASF/ WMV	File Extension	.wmv
	Format	- Advanced System Format - Windows Media Video
	Video Bitrate	max. 40 mpbs
	Video Frame Rate	30 fps
	Resolution	max. 1080P
	Audio Bitrate	8 ~ 320 kbps VBR (variable Bitrate)
	Audio Format	WMA

HARDDISK / USB

USB Standards	1.0	Y
	1.1	Y
	2.0	Y
	3.0	N
File systems	FAT 16 (standard)	Y
	FAT 32	Y
	exFAT	N
	NTFS	Y
	HPFS	N
	ext2, ext3, ext4	N
USB speed classifications	Low_Speed, 1,5 Mbit/s (187,5 KB/s)	Y
	Full_Speed, 12 Mbit/s (1.5 MB/s)	Y
	High_Speed, 480 Mbit (60MB/s)	Y
	Super_Speed, 5 Gbit/s (625 MB/s)	N
USB power management	Operating-Power Mode, constant current output	Y USB 1: max 1 A / USB 2: max 500 mA
ZENEC USB-HUB	For max. three 2.0 USB data carriers	N