

Get the most out of KCE-635UB

How to Create Files for Playback on the USB Video Player





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ideo Converter Platinum

1. Initial Considerations

1.1 What this guide can do

The intention of this guide is to help you to get the most out of the KCE-635UB. We aim to give you guidelines to the creation of own content from your recorded DVDs, Videos etc. Content from websites with user generated content, such as YouTube become also more popular these days. We will give you an idea how to get such content into your car with the KCE-635UB. Finally, we will show you how to analyze a video file in order to be able to determine if KCE-635UB can play it back without prior conversion. The tools we use are either freeware or the most popular applications used in Western Europe. We avoid exotic command line driven hardcore tools. Our aim is to offer at least one commercial and one freeware solution for each of the tasks.

1.2 What this guide can't do

There is an overwhelming number of different video formats out there that may or may not be compatible with the USB Video player. We are not able to tell you which of these formats will work or not. Especially with container formats, such as AVI, anything may be inside.

We won't assist in any illegal activities such as converting content from copyright protected DVDs.

Mac and Linux users are welcome to create a similar guide, we can't give any advice for anything but the applications mentioned in this guide under Windows Operating System.

This guide is not a scientific paper on video encoding techniques; some areas are not discussed in depth. We don't aim to replace the instructions which come with the software described.

2. Formats, Resolution, Bitrates

2.1 Which Format is the best?

The answer to this question depends on what you are going to do with your video files. If you are going to use them with the KCE-635UB only, you might want to stick to DIVX, if you use another portable device, MPEG4 or Windows Media might be better for you. However, it is likely that you are required to process separate files for your KCE-635UB and another portable device.

2.2 Which resolution is best?

The resolution you choose for your video files shall not be higher than the resolution of the screen. Alpine screens have a resolution between 400x234 up to 800x480. This may sound low compared to a PC monitor which won't do anything less than 1024x768. But nobody will disagree that a DVD delivers a pretty good image quality. A DVD's maximum resolution is 720x480 (NTSC) or 720x576 (PAL).

On the other hand, the size of a screen is another factor. Typical in-dash screens are around 7 inches, any resolution from 320x480 will deliver good results. If the resolution of the video material differs from the 'native' resolution of the screen, the image will be electronically scaled to fit. This does not necessarily improve the image quality. As a rule of thumb, try to match the screen's number of lines (234 or 480).

Model	Horizontal	Vertical
IVA-D100R/RB	400	234
IVA-D105R	400	234
IVA-D106R	480	234
IVA-D310R	480	234
IVA-D511R/RB	800	480
IVA-W200Ri	400	234
IVA-W202/205R	400	234
IVA-W502/505R	800	480
iXA-404R	400	234

Resolution of ALPINE screens

al

2.3 Bitrates

The bitrate of a videofile (stream) defines how much data is transferred within a specific time. For video, the bitrate is usually measured in Mbit/s (Megabit per second). Some Programs also use kbit/s. 1000kbit/s equal 1Mbit/s.

Average bitrates for DVD are between 4Mbit/s and 9Mbit/s. The more complex motion paths and content of the video image become, the higher the bitrate needs to be for an accurate reproduction.

The recommended average bitrate for material encoded to be used with KCE-635UB is between 1 and 3Mbit/s. Higher bitrates don't necessarily improve the image quality, but inflate file sizes and may cause problems in playback.

2.4 Compatibility Guideline

The chart below (taken from the KCE-635UBs Owner's Manual) gives an indication about files which can be played back by the KCE-635UB.

However, there are more factors than the ones stated in this list. Sometimes encoders add invalid data to the header of a video file that prevent playback on KCE-635UB although all parameters seem to be within specification.

Codec	Bitrate	Max. Resolution	File Extension (Container)	Remark
MPEG-1	3Mbit/s	HxV = 414720	*.mpg, *.MPEG	
MPEG-2	3Mbit/s	HxV = 414720	*.mpg, *.MPEG	
MPEG-4	3Mbit/s	HxV = 414720	*.avi, *.mp4	Max Resolution
ipod MPEG-4 Movie	3Mbit/s	HxV = 414720	*.mp4	HxV = 414720
DivX 3	3Mbit/s	HxV = 414720	*.avi	For Example:
DivX 4	1.5Mbit/s	HxV = 414720	*.avi	H720xV576 = 414720
DivX 5	2.8Mbit/s	HxV = 414720	*.avi	H800xV518 = 414720
Xvid	3Mbit/s	HxV = 414720	*.avi	
MPC-MPEG-2	3Mbit/s	HxV = 414720	*.avi	
WMV1 (WMV v7)	2Mbit/s	720x480	*.wmv	
WMV2 (WMV v8)	2Mbit/s	720x480	*.wmv	Max. Resolution : H720xV576
WMV3 (WMV v9)	2Mbit/s	720x480	*.wmv	11/20/00/0



Playback Compatibility



3. Identifying Video Files

3 GSPOT

Download from:

http://gspot.headbands.com/

This little freeware tool reads out the header of many video files. Sometimes it can be a hint why a particular file can't be played on KCE-635UB.

There are other more capable tools, specifically for AVI files, which also allow changes to the file header. If you are confident with that, you might want to have a look at abcAVI Tag Editor. http://abcavi.kibi.ru/download.htm

🔀 GSpot v2.70a: VTS_01_1	
<u>File System Options Tables H</u> elp	
File Path E::VideoWTS_01_1.avi Size [5.55 MB (5,686 KB / 5,823,166 byte File Length Correct AVI v1.0 Interleave: 1 vid frame (40 ms) Audio frames: Aligned on interleaves Video: 5.01 MB (90.26%) User Data / Metadata [JUNK] odmidmih [ISFT] Lavi52.62.0 Codec (0x0055 MPEG-1 Layer 3 Difference Audio Codec (0x0055 MPEG-1 Layer 3 Info (44100Hz 128 kb/s tot , Joint Stereo Image: Stat Codec (0x004 A/V) Vid Aud Vid Aud Sopot MS Vid Aud Signet	Video Codec H264 Name H.264/MPEG-4 AVC Status Codec(s) are installed Status Status Status Codec(s) are installed Status Status Status Status Len (0:31.880 Frms 797 Resize Frames/s 25.000 Status Frames/s 25.000 Status Status d G pic (w x/20 x 480 seq ext sar 1.500 (3:2) par 1.000 (1:1) d Status 1 Status 2 info

The bitrate of this file is rather high (4908kbps). Therefore KCE-635UB refuses to play back. The video was encoded using a H264 codec. H264 is not supported by KCE-635UB.

🛱 GSpot v2.70a: VTS_01_1	
<u>File System Options Tables H</u> elp	
File Path [E:\CLS - XA-WS\VTS_01_1.VOB Size[13.9 MB (20,460 KB / 20,951,040 b.	Video
User Data / Metadata [USER] 0encoded by TMPGEnc 4.0 XPress Ver Audio Codec AC3 Codec AC3 Info [0xbd[0x80]:48000Hz 224 kb/s tot , stereo (2/)	t Len (0.32.000 Frms 800 kbps 4908 Qf (0.473 Pics/s (25.000 Frames/s (25.000 Fields/s) Pics/s (25.000 Fields/s) d pic (w x 720 x 576 seq ext 720 x 57 set) d Pics/s (25.000 Fields/s) d pic (w x 720 x 576 seq ext 720 x 57 set) sar (1.250 (5:4) par (1.422 (~10.1) dar (1.778 (16:9)) Resizing Prove (voo) sovoo (ovo) 1 None, already DVD format Nes) (1.556 seq)
Proposed Codec Solutions and Tests GSpot MS Vid Aud A/V 1 1 1 2 2 2 3 3	

4. Formatting Harddrives for best use with KCE-635UB

4 FAT32 Limitations

The way to format hard drives or memory devices for the use with KCE-635UB is FAT32. Later Windows Operating Systems force the user to format hard drives or memory devices with NTFS to get partitions over 32GB. There are several freeware programs to allow formatting HDDs over 32GB with FAT32. One example is the USB Disk Storage Format Toolby HP: Download from:

http://download.chip.eu/en/USB-Disk-Storage-Format-Tool_176935.html

Connect your drive/ memory device to your PCs USB port and start the program. Select the appropriate device and choose FAT32 from the menu. Don't worry about the other options.

HP USB Disk Storage Format Tool, V2.2.3 🛛 🛛
<u>D</u> evice
Maxtor OneTouch 0125 (476941 MB) (V:\) 🔽
<u>F</u> ile system
FAT32
Volume jabel
OneTouch4
Format options
Quick Format
Create a DOS startup disk
using system files located at:
<u>Start</u> <u>Close</u>





KCE-635UB

5. Converting DVDs

5.1 Commercial Solution 1: allDJ Video Converter Platinum

Download from:

http://www.alldj.com/video_converter/video_converter.htm Cost: ca. 40 Euro

The software features a simple to use GUI and the possibility to save custom profiles. This will allow users to customize profiles matching to KCE-635UB and other portable players. The videos created by this software are highly compatible. The software allows batch conversion.

Tested profiles: 5.1.1 XVID

	allDJ V	lideo Converter Platinum			
Add Remove Cles	r Option		3		
	Clip Name VTS_01_1.VO6	Clip Information Video Length : 00:00:29 Video Size : 720/576	Duration Beginning Ending	Output 0010.avi	
////LPINE.	- Dutput Setting - Sart Time : 00:00:00	End Time : 80:00:29 Output Folder : C:(all0300	Aput (AVT)	Browse	
to IPod to IPhone to Apple TV to PSP to PDA to 3GP to Zune to AVI to MP4 to MPEG to WMV to FLV to Music					
Audio Quality : 128 V Kbps Audio Vicieno Sotting Video Quality : 1500 💽 Kbps Video I Output Image Setting : Original Size and Ko Frite Setting	Sample Rate : 48000 frame Rate : 29.97 rep Aspect Ratio	Volume : + 2 db. For Use High Quality Engine Video Resolution (W : H) :	nat: mp3 ¥ nat: 2MD ¥	Start	

5. Converting DVDs

5.1.2 iPod



5.1.3 Zune

allDJ Video Converter Platinum				
Add Remove Clea	r Option		s a e o	
/////LPINE.	Clip Name VTS_01_1.VCB	Clip Information Video Length : 00:00:29 Video Size : 720/576	Duration Output Beginning Ending 0012.mp4	
Dutput Setting Rart Time : 00:00:00 End Time : 00:00:29 Output Folder : ClalDDOutput[Zune] Browse to AVI to MP4 to MP4 to MPEG to iPod to Apple TV to PSP to PDA to Zune				
Profile Setting : 6400x400_MPEG4) Excelent Quality : Video-MPEG4, 320:240, 1500kpps, Audio-120kg ▼ Audio Setting Audio Quality : 128 ▼ Audio Quality : 128 ▼ Kbps Audio Sample Rate : 44100 ▼ Volume : + 2 db. Vicion Sotting				



erter Platinum		- ×
	\$	
Clip Information	Duration	Output
th : 00:00:29 Video Size : 720/576	Beginning Ending	0010.mp4
00:00:29 Output Folder : C:1a80300 to WMV to FLV to PDA to 3GP WEG4,640:400,1500kbps,Audio-64kbps	to Music to Zune	Browse
ume : + 2 db. Use High Quality Engine Video Resolution (W : H) : 64	0:480	Start



KCE-635UB

5. Converting DVDs

5.2 Commercial Solution 2: DivX Pro + DivX MPEG-2/DVD Plug-in

Download from:

http://www.divx.com/

Cost: ca. 30 Euro

No fuzz solution to create DivX movies for all DivX certified hardware. Various profiles can be selected. The software allows batch conversion.

Recommended profile: Home Theater



The Output Settings Tab allows various adjustment for resolution and quality. However, the standard settings for Home Theater deliver a good image quality at a reasonable file size.

5. Converting DVDs

Commercial Solution 3: CloneDVD mobile 5.3

Download from: http://www.slysoft.com/

Cost: from 33 Euro

the ,devices.ini' file. We have prepared such a file which can be downloaded here: http://www.alpine-extranet.de/phpBB3/viewtopic.php?f=11&t=3775 After you have downloaded the file, backup the original ,devices.ini' to a safe place and copy the downloaded file into the program folder of CloneDVD mobile (usually C:\Program Files\SlySoft\CloneDVDmobile\).

😂 CloneDVDmobile	
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites	<u>T</u> oo
🕞 Back 🔹 🌍 🔹 🏂 ,	P
Address 🗀 C:\Program Files\Slys	oft\
Name 🔺	1
 apps eraser language manual sounds CloneDVDmobile.exe CloneDVDmobile-uninst.exe CloneDVDmobile-uninst.ini Devices.ini HelpLauncher.exe InstallHelp.dll RegCloneDVDmobile.exe WriteDVD.dll 	
<	



- Straightforward user interface with several options for customisation. Profiles can be easily added by modifying

s <u>H</u> elp	
Search 🔀 F	Folders 📰 🕶
IoneDVDmobile	🔽 🄁 Go
Size	Туре
	Folder
4.675 KB	Application
29 KB	Application
11 KB	Configuration Settings
26 KB	Configuration Settings
6 KB	Application
84 KB	Application Extension
84 KB	Application
44 KB	Application Extension
	>



5. Converting DVDs

Recommended profile: KCE-635UB





KCE-635UB

5. Converting DVDs

5.4 Freeware Solution 1: Free DVD Video Converter Download from:

http://www.dvdvideosoft.com/ A simple user interface that can be understood in no time. The conversion time is short but the results are very good.

Recommended Profiles:

AVI: High Quality or Standard Quality (DivX)

Free DVD Video Conv	rerter 1.1.2.28	
Input DVD:		
G:\VIDEO_TS		•
Browse		
Title 11 (00:00:32). Audio Choose	: Deu. Subtitles: No	
Output file:		
C:\Users\XPMUser\Docum	tents\DVDVideoSoft\FreeDVDVideoConverter\Test\avi	
Browse		
Formats:	Presets:	
AVI	High Quality (MPEG4, 1.8Mbit; MP3 192 KBit)	•
	Options	Convert





KCE-635UB

5. Converting DVDs

5.5 Freeware Solution 2: MediaCoder

Download from:

http://www.mediacoderhq.com/dlfull.htm

WARNING: The use of this software might be illegal in some countries. Please check legal implications.

If you know what you do, this program gives you lots of options. If you are not quite an expert, you may wish to use one of the presets which we created.

Download them from here: http://www.alpine-extranet.de/phpBB3/viewtopic.php?f=11&t=3775 After you have downloaded the file, open it from MediaCoder (File-Load Preset).



5. Converting DVDs



Now drop the files you want to convert into the MediaCoder window, select the output folder and click on start.

🙀 MediaCoder 0	.7.3.4670						×
<u>File I</u> tem F <u>e</u> ature:	s Job Playback	Options Support	Start transc	oding jobs			
		🖄 🔮 📑 🖄		out Folder	Z:\Video\	Open	
Name	Size	Туре	Group State	Pres	F	roperties	
E:\CLS - iXA-W404	VIDEO 19 MB	DVD/MPEG2	Ready	>	VTS_01_1.VOB Container: Bitrate Duratio Size: 1' Overhe Video (0): 1 Profile:	MPEG-PS 5238 Kbps in: 32.0 secs 9 MB ead: 2.0% MPEG Video Main@Main	
Current Task:						Task Mode	7
			G	Laural			
Generic Video	Audio Container :o XviD	Copy Video	Summary ×264 Profile Unrestricte	d CUDA	JM XMD		
Mode Mode Source Encoder	Average Bitrate MEncoder x264	I500 Kbps ✓ Auto Select ✓ Auto Select	 ✓ High Q Greyson Cartoo Enable Global 	uality Mode ale n Quarter-Pi> Motion Com	B-Fr el pensation	ames 0 💌 Advanced	



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•	🗢 🔁	💣 🎟 •	
		-	<u>O</u> pen
		•	Cancel



5. Converting DVDs

5.6 Freeware solution 3: SUPER

Download from http://www.erightsoft.com/SUPER.html#Dnload (you must be patient to find the final download link).

The software comes with an overwhelming choice of options which are just too much for the average user. therefore we created a set of profiles to be downloaded here: http://www.alpine-extranet.de/phpBB3/viewto-pic.php?f=11&t=3775

Start SUPER and push CTRL-I to load the KCE-635UB profile of your choice.



Drop the files to convert into the SUPER window, select the output file destination and you are ready to start.

🔁 SUPER © v2010.build.3	8 (May 2, 2010) by eRig	;htSoft	<u>M</u> = 🛛		
[1. Select the Output Conta	iner] [2. Select the Ou	tput Video Codec] [3. Se	lect the Output Audio Codec]		
You may select FFmpeg or M FFmpeg MEncoder	Encoder Offmpeg2theora Real Producer		DirectShow Decode		
Disable Video 560:3 Disable Video 640:3 Stream Copy 640:4 704:4 704:5	Aspec 04 720:480 36 720:576 52 768:576 68 960:528 80 960:720 80 1280:720 80 1280:720 76 11:5	Frame/Sec More Bit 5.994 15 6.25 23.976 7.5 25 10 29.97 11.988 30 12.5 50 14.985 60 14.985 60	rate kbps Options ♥ Hi Ouality Top Quality ▼ Stretch It ♥ 48K Audio ₩ H264 Profile © Crop / Pad Q Other Opts ♥ 0ther Opts		
ODDisable Audio Sampling Disable Audio 11025 Stream Copy 12000 16000 22050	Freq Channels 24000 1 32000 1 44100 2	Bitrate kbps	DVD Language Select AudioStream Track #		
Encode to File Format: AVI Use Video Codec: XviD, 720:576 (16:9), 1536 kbps, 25 fps Use Audio Codec: mp3, Stereo, 192 kbps, 44100 Hz, AudioStream [default] selected					
DROP A VALID MULTIMEDIA FILE HERE - Will try to play or encode					
Active FileName Streaming Link Output Status E:\CLS - iXA-WW404\VIDE0_TS\VTS_01_1.VDB					
Encode (Act	ve Files)	An ERROR has occurr	ed. Click to read more		
Play (Active File	Play (Active Files Streams)		Preview The Last Rendered File		
Player Options		Cancel All			

5. Converting DVDs

5.7 Summary

There are many ways to get an acceptable result, which one you choose depends on your preferences. Here, we just try to give some advice for the users who just start to discover the ways to generate video content for the KCE-635UB.

The most user friendly solution might be CloneDVD mobile, but it is also the most expensive solution and not flexible for anything other than DVD. On the other side, they offer the best customer support in their own forum. This might be the right choice if you convert DVDs for more than one device. If you only want to bring your DVDs to an MPEG4 file, the Free DVD Converter will do the job.

All other solutions allow not only conversion from DVD but from many other formats too. SUPER might be the most versatile solution, but it is for sure also the most complicated to handle and the slowest in conversion speed. But admittledly it does lots of things which you won't find in any commercial program.

MediaCoder is a good compromise between performance and possibilities to tweak. However there are voices claiming that some part of the software violates copyrights. If you are afraid of legal implications, make sure to check before installing the software.

The DivX Coder ist the least flexible in terms of output formats, not the fastest of them all, but delivers good quality.

The allDJ converter comes with most flexibility in the commercial programs and is also pretty fast.

Except DivX, all makers offer trial versions with either a time limit or watermarks in the generated file. They allow the user to play around and test if the program is the right solution for the intended purpose or not.

All of the above programs and settings have been tested with ,home made' DVDs including menu structures and multiple soundtracks. None of them will work with copy protected discs.

If backing up copy protected material is legal in your contry, you will surely find tools which will hook into the system and allow the above programs to work as if there was no copy protection.

The profiles which we prepared, will be uploaded to a forum thread, which allows users to share their settings. We have seen that there are a lot of experts out there finding alternate solutions for this matter and encourage them to share their methods.

http://www.alpine-extranet.de/phpBB3/viewtopic.php?f=11&t=3775





6. Downloading and converting videos from websites with user generated content (YouTube etc.)

6.1 Freeware Solution : Free You Tube to iPod Converter

Download from:

http://www.dvdvideosoft.com/

This software is browser independent and allows batch downloads.

The URL of the desired video clip needs to be pasted, select Apple iPod 5G as device and a preset using MPEG4 codec (not h.264).

The use is pretty simple:

- paste the YouTube link(s) into the Import URLs field.
- select Apple iPod 5G as device
- select MP4 High Quality Video (700kbit, MPEG4; Stereo)
- click ,Download'

Free YouTube to iPod Converter 3.2.8.96		
Input URLs:		
Alpine Mercedes CLS making of	video	00:09:52
Paste Remove Tags Output folder:	Videos	
Browse Output Name		
Devices: Presets:		
Apple iPod 5G MP4 - High Quality Video (700 kbit, MPEG4; Stere	0)	~
	Options	Download

6. Downloading and converting videos from websites with user generated content (YouTube etc.)

6.2 Freeware solution 2: DownloadHelper (Add-On for Firefox Browser) Download via the browser's Add-On search (more information here: http://www.downloadhelper.net/) Whenever video content available for download is detected, the symbol in the browser's navigation line will indicate so. Now Click the down arrow right from the rotating icon and select Quick Download.

This methods works with much more websites than the Free You Tube to iPod Converter, but the downloaded videos need to be converted, as they use the h.264 codec which is not supported by KCE-635UB. This can be done with the Free Video to iPod Converter by dvdvideosoft (http://www.dvdvideosoft.com/) or some of the tools described in section 3 (SUPER, MeciaCoder, allDJ Videoconverter Platinum).

YouTube - Alpine Mercedes CLS making of - Mozilla Firefox	
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