

## StarBurn CD/DVD/Blu-Ray/HD-DVD Toolkit: Frequently Asked Questions

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## **TECHNICAL SUPPORT AND SERVICES**

If you have questions about installing or using this software, check this and other documents first - you will find answers to most of your questions here or there. If you need further assistance, please contact us.

## How can I enable debug logging with StarBurn?

First of all you'll have to use Debug version of StarBurn. Either statically link to StarBurn.lib from Lib\Static\Debug or replace StarBurn.dll with the one shipped in Bin\Dynamic\Debug folder (StarBurn OCX component is already built with log files support so no additional activities required). Then you need to decide - how do you want to catch logs? You can either have them traced to system debug output (any debug output hooker can view them - we recommend either *DebugView* from [www.sysinternals.com](http://www.sysinternals.com) or *DbgMon* from [www.osr.com](http://www.osr.com)) or just saved to the log file. In last case you need to run StarBurn.reg file located in Reg folder of StarBurn installation to enable log file generation. Edit *DebugFileName* field and replace default log file name ("C:\StarBurn.log") with the one you want to use.

Please keep in mind: all of the file log entries are appended! So it's a good idea to delete old file before starting StarBurn application if you want to send log to somebody (for example to us for analyze). We don't need whole of your development history stored there from the very beginning of the Earth 😊

## **StarBurn works perfectly from Administrator account but does not work at all (no devices found) w/o admin rights. What should I do?**

Historically (from early UNIX times) it was decided it's a bad idea to provide raw device access to the users w/o root (Admin) rights because of the security reasons. So StarBurn by default does not work w/o such rights as well. However if it's critical features for you there's a way to make it work. Using special driver located in Bin\Dynamic\Debug[Release]\i386[amd64] (paths are different for debug and release version and for 32-bit and 64-bit operating systems). Just copy it to Windows [or whatever your Windows folder is called]\System32\Drivers folder, apply StarOpen.reg from Reg folder and reboot. After rebooting you'll have StarBurn and all of its applications having free access to your CD/DVD burners w/o Admin rights. StarOpen has extra feature - it allows opening devices in truly "exclusive" way. So no single software would be able to access them while they are used by StarBurn or StarBurn applications. You need to set "Exclusive" to "1" in StarOpen.reg. Driver restart required to update the parameters.

Please keep in mind: there is other software hacking system registry to allow software running w/o Admin rights to access raw devices. However if in case of StarBurn this feature is private, other software just creates backdoor lowering down system security level. Just never allow anybody to have any backdoors or you'd lose your system installation and critical data one day...

Alternative way to access devices w/o Administrator access would be to install redistributable SPTD layer (shipped with StarBurn SDK) and use CreateExEx API call to create burner/grabber StarBurn object. Please check FindDeviceExEx sample for more information on how to do this.

## What's ASPI and why should I have `wnaspi32.dll` shipped with my software?

ASPI stands for Advanced SCSI Programming Interface and it was standard way for accessing SCSI devices under early versions of Windows. Later ATAPI (and other interface) devices got SCSI-like interface and it was easy to have single way of programming them at low level. Starting from Windows NT ASPI support was dropped by Microsoft (and replaced with SPTI - SCSI Pass Thru Interface) but a lot of people found easier to have ONE way of coding for all of the supported operating systems then just treat every single OS in the other way. So if you need Windows 95/98/Me line of the operating systems - please stick with ASPI and use `StarBurn_CdvdBurnerGrabber_Create(...)` API call to create burning device object. Windows 95/98/Me has ASPI stack built-in and you may use Rocket Division Software ASPI layer as redistributable `WnASPI32.dll` file shipped together with your software if you run it under Windows NT/2000/XP/2003. Please note that other ASPI layers may work with StarBurn and may not work with StarBurn. We've been tested with own one and Adaptec ASPI layers only.

However if you don't old junk and want to stick with only NT like of the operating systems - just use `StarBurn_CdvdBurnerGrabber_CreateEx(...)` API call. It would end with SPTI calls finally. In such a case you don't need `WnASPI32.dll` at all. Please see `FindDevice` and `FindDeviceEx` samples from `Samples\C[Pascal]` for more of the details.

Also there's third way to send commands to the device. Thru the special filter driver which is part of the Daemon Tools (our friendly software). It has a great feature of hiding all of the data traffic between application and raw device. So it's nearly impossible to trace it and break the burning process (quite a lot of poorly designed software like ant viruses and other burning applications can do this). If you want to have this feature enabled - please contact us via the [support@rocketdivision.com](mailto:support@rocketdivision.com) e-mail account.

So, if other burning software forces you to stick with only one of the programming interfaces to talk to raw device - StarBurn know THREE different ways to do this. And you can pick up the one working for you in the best way.

## **What StarBurn files should I have as part of my own application installation?**

First it's WnASPI32.dll (see Q3). It depends upon you - do you use it or not. So if you use ASPI - you need it, if you're using SPTI or private Daemon Tools API - you don't need WnASPI32.dll as part of your own installation. Then go StarBurn.dll. If you're linking statically to StarBurn.lib - you don't need StarBurn.dll, if you're linking dynamically to StarBurn.dll - of course you need it. Then go StarBurn\_VideoCD.iso and StarBurn\_SuperVideoCD.iso templates. If you're burning Video CD and Super Video CD discs - you need them shipped. If you don't burn such a video formats - you don't need such files at all. Then go ogg.dll, vorbis.dll and vorbisfile.dll. If your application wants to burn Audio CDs with automatic decompression from OGG VORBIS files - you need three of the listed files shipped with your application. If you're not dealing with compressed OGG stuff- don't mess with these DLLs at all. Finally if you're using StarBurn.ocx COM wrapper for StarBurn of course you need to have a copy of it as part of your own application installation. Please also take a look at StarBurnOCX-Install.bat and StarBurnOCX\_UnInstall.bat files located in Bin folder of the StarBurn. They provide you with a sample batch code how to either install of uninstall StarBurn OCX component on your user machine.

That's all! No additional stuff is needed.

## **Created DVD-Video compilation works fine with software DVD player but my hardware DVD player refused to play it. What's wrong?**

First of all make sure you're using `StarBurn_DVDVideo_Create(...)` and rest of the DVD-Video API calls to have your DVD-Video compilation mastered. Old code creates UDF/ISO9660 bridge file system (also DVD-Video compatible) but it does not patch IFO/BUP files and not all of the DVD-Video content can be freely moved from one DVD to other. Quite a lot of the movies are mastered with additional navigation offsets recorded to IFO/BUP files and not all of the mastering engines are compatible between each other. So make sure you use new code and pass `TRUE` as parameter to IFO/BUP files patching. Then make sure you've enabled DVD padding (`StarBurn_GetDVDPadding(...)` and `StarBurn_SetDVDPadding(...)` API calls do this). It's required if your compilation is less then 1GB in size. Old (and some modern DVD players) just does not understand discs with less 1GB recorded. Then make sure you've recorded disc with multisession parameter set to `FALSE` (in other words - multisession is OFF). It's required quite a lot of the players don't work with non-finalized media.

Of course we're talking about recordable/rewritable disc formats hardware compatible with your DVD player. We're not expecting our customers to load for example DVD+R media into DVD-RAM and DVD-R only capable player 😊

If you're still having playability problems - please contact us via [support@rocketdivision.com](mailto:support@rocketdivision.com) e-mail account of thru the Rocket Division Software support forum.

## **Why my DVD burners refuse to burn DVDs in Session-at-Once and Disc-at-Once recording modes?**

Just because it does not support them! For recording DVDs you need to use Track-At-Once burning mode only. We know Nero (and other software) calls this mode "DVD DAO" but we want to call it TAO b/s it's much closer to CD TAO (when "cooked" user data is recorded) then to CD DAO ("when "raw" data is written to the media). It's only a question of terminology and nothing more.

BTW, it's a good idea to call `StarBurn_CdvdBurnerGrabber_ProbeSupportedWriteModes(...)` API call before doing any burning activities. It does properly list all of the supported write modes for current combination of "optical drive + inserted media". Recording modes would be DIFFERENT for different inserted media.

## How could I get progress callbacks when doing rewritable disc erase operation?

Unfortunately there's no straight-forward way to do this. Most (99%) of the burners don't have any progress indication for erase process done in hardware. However such a trick could be applied using software approximation:

- 1) Get expected size of the burning region (for CDs it would be 15MB for just TOC erase and full CD size for full disc erase, for DVDs it would be around 150MB for just TOC erase and full DVD size for full disc erase). Say it would be Xx.
- 2) Get speed device would be using in KB/sec. Say it would be Yy.
- 3) Now you can get expected time in seconds for such operation as  $Tt = ( Xx * 1024 ) / Yy$ .
- 4) Spawn a thread controlling progress dialog and just move progress position using timer. Keep in mind it's expected to move from 0% to 100% in Tt seconds. We're done!

Console samples are just too dumb and don't have any progress indication for erase but GUI samples all have complete progress indication done using algorithm just described below. If you'd take a look at other burning software you'd see they do exactly the same.

**I have Visual Studio 6.0 or Visual Studio .NET and have problems building full static StarBurn SDK sample applications. Compiler says about unreferenced \_\_security\_check\_cookie, \_\_security\_cookie, \_\_seh\_epilog, \_\_seh\_prolog, \_\_alldvrm, \_\_aulldvrm and so on. Visual Studio 2005 works just fine but we really need Visual Studio 6.0 builds for our customer! What should we do?**

Starting from StarBurn SDK Version 7.2.20 static builds are supported if you're using the same version of the compiler we use to build StarBurn SDK core. As we use WDK 6000 you need to use Microsoft Visual C++ 8.0 (also known as Visual Studio 2005). Neither VC 6.0 nor VC 7.0 (also known as Visual Studio .NET) are not supported for static builds any more. Dynamic builds should work fine even with Visual Studio 4.2 however... So if you need to use ancient compiler please either stick with fully dynamic configuration or roll back to old StarBurn SDK builds (however this was is unsupported).

**How could I stop the CD auto play dialog from popping up every time a user inserts a disc and closes the drive?**

“Auto play” is a Windows Explorer feature, so StarBurn is not dealing with it. However you can easily do it in your application. Look at this article in MSDN:

[http://msdn.microsoft.com/library/default.asp?url=/library/en-us/shellcc/platform/shell/programmersguide/shell\\_basics/shell\\_basics\\_extending/autorun/autoplay\\_reg.asp](http://msdn.microsoft.com/library/default.asp?url=/library/en-us/shellcc/platform/shell/programmersguide/shell_basics/shell_basics_extending/autorun/autoplay_reg.asp)

**Why does StopPlayScan API call fail on some media? I use it to show the information in a session that has just finished burning.**

StopPlayScan should be used only for Track-At-Once & CD recording. For Session-At-Once and Disc-At-Once it would not work (and would not update anything - full eject and load sequence is required), and for DVD/Blu-Ray/HD-DVD media it just not required to call StopPlayScan.

**Why StarBurn OCX C# and VB.NET samples don't run on my computer? I get error "The application failed to initialize properly (0xc0000135). Click on OK to terminate the application" (Windows XP) or "The dynamic link library mscoree.dll could not be found in the specified path ..." (Windows 2000).**

You should install .NET Framework to be able to run these StarBurn OCX samples. The latest .NET Framework setup can be found here:

<http://msdn2.microsoft.com/en-us/netframework/aa569263.aspx>

We did not include it to our basic installation as we don't want to increase StarBurn SDK download size up to 70-80 megabytes. And only OCX users are in need of .NET framework, core StarBurn does not need it.

## CONTACTS

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