



How to compress a 4k Video for XMP-7300

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Agenda

- Download FFmpeg
 - Configure FFmpeg
 - Run FFmpeg on Windows Command Prompt
- Convert 4k video with H.265 codec

Download FFmpeg

- Visit FFmpeg official web site to download FFmpeg Windows built version.
 - <https://ffmpeg.org/download.html>

FFmpeg

Download FFmpeg

Download
ffmpeg-3.3.tar.bz2

More releases

More downloading options

If you find FFmpeg useful, you are welcome to contribute by [donating](#).

Get the packages

Windows Packages

Windows Builds

Get the Sources

Download Snapshot

You can retrieve the source code through [Git](#) by using the command:

```
git clone https://git.ffmpeg.org/ffmpeg.git ffmpeg
```

Cannot access Git or wish to speed up the cloning and reduce the bandwidth usage?

Snapshot Browse

Configure FFmpeg

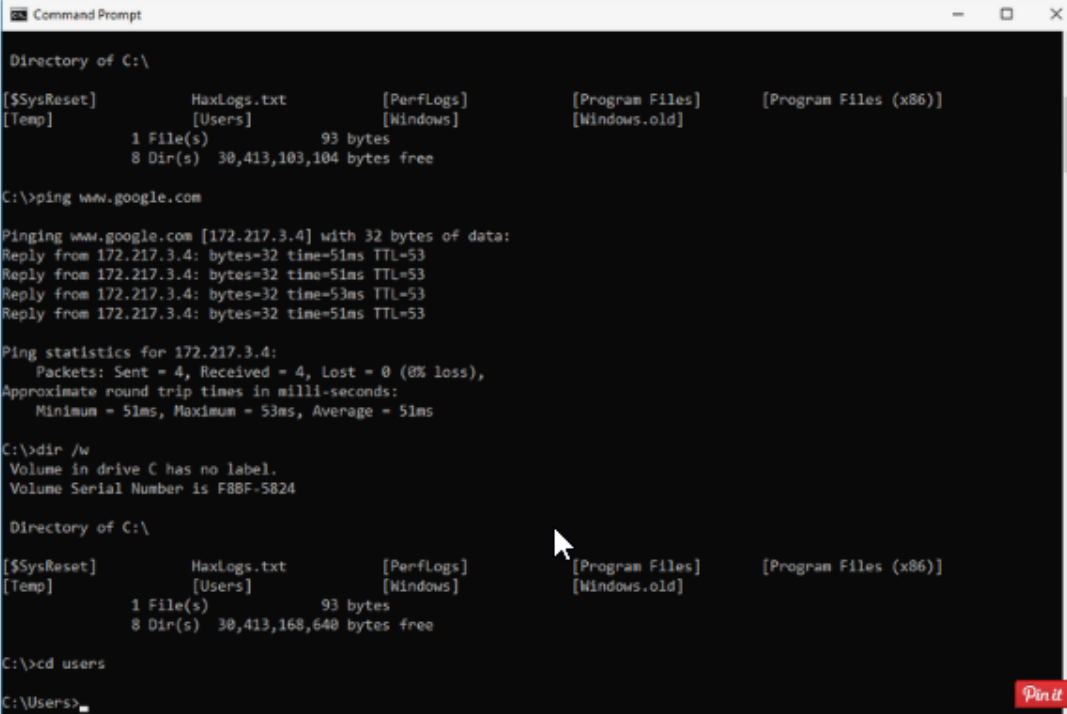
- Unzip the FFmpeg installation file once it downloads complete. It should create a folder like ffmpeg-3.2.4-xxx-static, rename it to ffmpeg for simplicity sake.

The screenshot shows a Windows File Explorer window with the address bar set to 'This PC > OS (C:) > Users > [redacted] > Downloads'. A file named 'ffmpeg-3.2.4-win64-static.zip' is selected, with a date modified of '4/18/2017 9:24 AM'. Below this, a second window shows the contents of the extracted folder 'ffmpeg-3.2.4-win64-static' in 'DATA (D:)'. The 'bin' folder is selected, showing a date modified of '4/18/2017 9:45 AM' and type 'File folder'. A third window shows the contents of the 'bin' folder, listing three application files:

Name	Date	Type	Size	Length
ffmpeg.exe	3/12/2017 5:08 PM	Application	39,395 KB	
ffplay.exe	3/12/2017 5:08 PM	Application	39,289 KB	
ffprobe.exe	3/12/2017 5:08 PM	Application	39,310 KB	

Run FFmpeg on Command Prompt

- 1. Click the Start menu, and then click Run.
- 2. Type 'cmd' into the dialog box.
- 3. Wait for Command Prompt to come up.
- 4. Go to ffmpeg folder then enter the “bin” sub-folder.



```
Command Prompt

Directory of C:\

[$SysReset]      HaxLogs.txt      [PerfLogs]      [Program Files]      [Program Files (x86)]
[Temp]           [Users]          [Windows]       [Windows.old]
                1 File(s)        93 bytes
                8 Dir(s)  30,413,103,104 bytes free

C:\>ping www.google.com

Pinging www.google.com [172.217.3.4] with 32 bytes of data:
Reply from 172.217.3.4: bytes=32 time=51ms TTL=53
Reply from 172.217.3.4: bytes=32 time=51ms TTL=53
Reply from 172.217.3.4: bytes=32 time=53ms TTL=53
Reply from 172.217.3.4: bytes=32 time=51ms TTL=53

Ping statistics for 172.217.3.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 51ms, Maximum = 53ms, Average = 51ms

C:\>dir /w
Volume in drive C has no label.
Volume Serial Number is F8BF-5824

Directory of C:\

[$SysReset]      HaxLogs.txt      [PerfLogs]      [Program Files]      [Program Files (x86)]
[Temp]           [Users]          [Windows]       [Windows.old]
                1 File(s)        93 bytes
                8 Dir(s)  30,413,168,640 bytes free

C:\>cd users
C:\Users>
```

Convert 4k video with H.265 codec

- Type following command line to convert 4k video with h.265 codec.
 - `ffmpeg -i input.mp4 -c:v libx265 -preset medium -crf 28 -s 3840x2160 -b:v 10M -c:a aac -b:a 128k output.mp4`

```
handler name      : SoundHandler
x265 [info]: HEVC encoder version 2.3
x265 [info]: build info [Windows][GCC 6.3.0][64 bit] 8bit
x265 [info]: using cpu capabilities: MMX2 SSE2Fast SSSE3 SSE4.2 AVX
x265 [info]: Main profile, Level-5 (Main tier)
x265 [info]: Thread pool created using 4 threads
x265 [info]: Slices                               : 1
x265 [info]: frame threads / pool features         : 2 / wpp(34 rows)
x265 [info]: Coding QT: max CU size, min CU size   : 64 / 8
x265 [info]: Residual QT: max TU size, max depth  : 32 / 1 inter / 1 intra
x265 [info]: ME / range / subpel / merge          : hex / 57 / 2 / 2
x265 [info]: Keyframe min / max / scenecut / bias : 25 / 250 / 40 / 5.00
x265 [info]: Lookahead / bframes / badapt         : 20 / 4 / 2
x265 [info]: b-pyramid / weightp / weightb        : 1 / 1 / 0
x265 [info]: References / ref-limit cu / depth     : 3 / on / on
x265 [info]: AQ: mode / str / qg-size / cu-tree      : 1 / 1.0 / 32 / 1
x265 [info]: Rate Control / qCompress               : CRF-28.0 / 0.60
x265 [info]: tools: rd=3 psy-rd=2.00 rskip signhide tmvp strong-intra-smoothing
x265 [info]: tools: lsllices=8 deblock sao
Output #0, mp4, to 'sonyCl.mp4':
  Metadata:
    major_brand      : isom
    minor_version    : 512
    compatible_brands: isomiso2avc1mp41
    encoder          : Lavf57.56.101
  Stream #0:0(und): Video: hevc (libx265) ([35][0][0][0] / 0x0023), yuv420p, 3840x2160 [SAR 1:1 DAR 16:9], q=2-31, 10000 kb/s, 29.97 fps, 30k tbn, 29.97 tbc (default)
  Metadata:
    handler_name     : VideoHandler
    encoder          : Lavc57.64.101 libx265
  Stream #0:1(und): Audio: aac (LC) ([64][0][0][0] / 0x0040), 44100 Hz, stereo, fltp, 128 kb/s (default)
  Metadata:
    handler_name     : SoundHandler
    encoder          : Lavc57.64.101 aac
Stream mapping:
  Stream #0:0 -> #0:0 (h264 (native) -> hevc (libx265))
  Stream #0:1 -> #0:1 (aac (native) -> aac (native))
Press [q] to stop, [?] for help
frame= 27 fps=8.1 q=0.0 size=      0kB time=00:00:00.99 bitrate=  0.0kbts/s speed=0.298x
Microsoft Bopomofo 半 :
```



Thank You