


Video Compression Settings in FalCon eXtra 7.14

The **German Working Group** "Image Processing for Safety Tests" recommends – as a result of visual and metrology-related evaluations – the **X264 compressor** (= encoder) and the following settings to create AVI videos.

Note:

Use only the released version listed below. Newer updates of the OpenSource software project can differ in functionality or parameters!

Set the necessary parameters automatically in **FalCon eXtra** 
(see *File / Programm Settings / Picture File Parameters*)

X264

- Setup file: [x264vfw 20 1195bm 19501.exe](#)
- Version: Jul-29-2009 (720.691 Bytes)
- Display name: x264vfw - H.264/MPEG-4 codec
- GNU GPL License

Settings

- **Load Defaults** ≡ basic settings
- Tab **Main**

Ratefactor:	23.0 ¹
VFW FourCC:	X264 ²

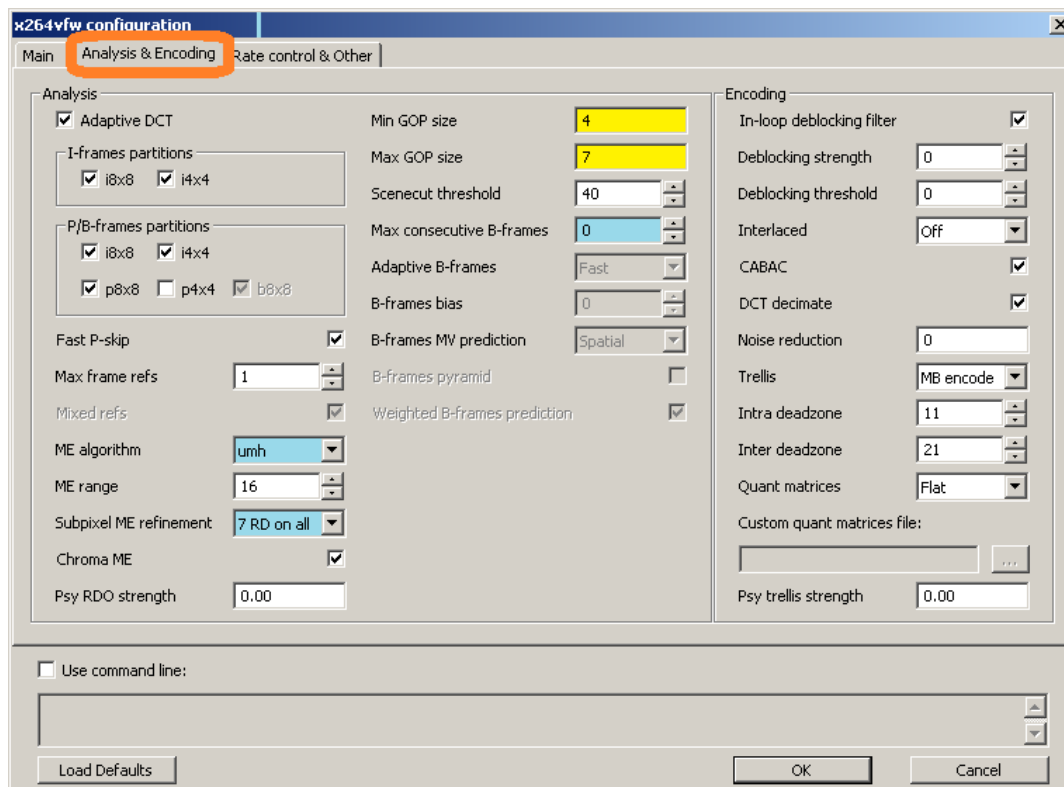
- Tab **Analysis & Encoding**

Min GOP size:	4 ³
Max GOP size:	7

¹ Note: smaller values result in higher quality, but lower compression rate.

² Note: 'X' as capital letter.

³ 'GOP size' complies with 'keyframes'.



Note: Do not change these important default settings!

Xvid

The codec **Xvid** was assessed and tested by the Working Group. During use under FalCon eXtra we found, that the start image as well as (sometimes) following images are repeated, thus the timing within the sequence can be destroyed (possibly without notice!). A workaround is only possible by setting the parameter 'Motion search precision' to the value '0-None' (default = '6-Ultra high'). The data rate increases however until the factor 3!

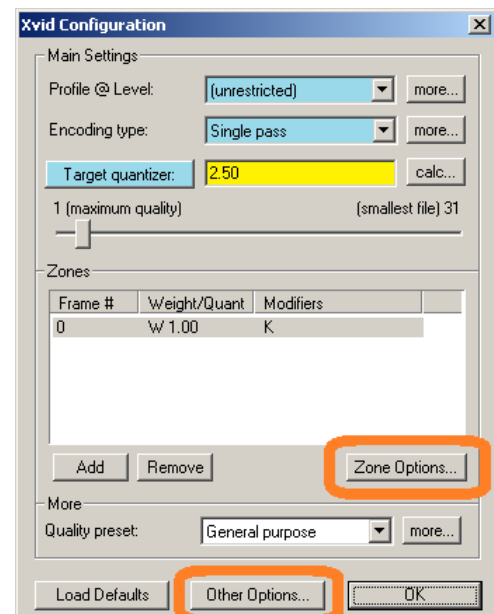
Note:

The compression rate of the X264 encoder is considerably better, so that FalCon and the Working Group recommend only this codec.

- Setup file: [Xvid-1.2.2-07062009.exe](#)
- Version: Koepis Build 1.2.2
Jun-07-2009 (652.794 Bytes)
- Display name: Xvid MPEG-4 Codec
- GNU GPL License (respect possible patents in USA and Japan)

Settings

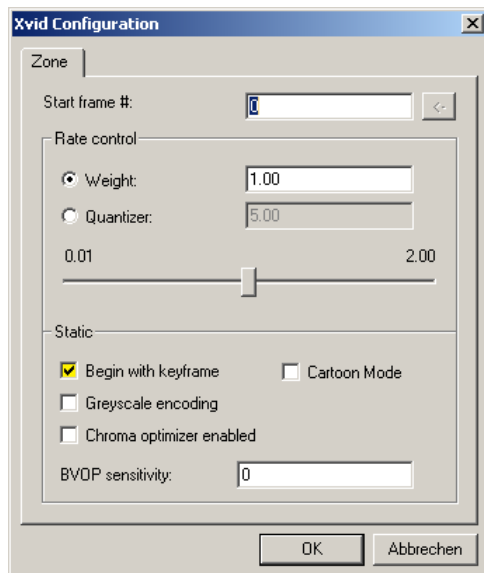
- **Load Defaults** ≡ basic settings
- **Target quantizer:** 2.50
- **Zone Options**
Begin with keyframe: checkmarked
- **Other Options** + Tab **Encoder**
Display encoding status: not checkmarked
Number of threads: 1⁴
- **more** + Tab **Motion**
Motion search precision: 0 – None⁵



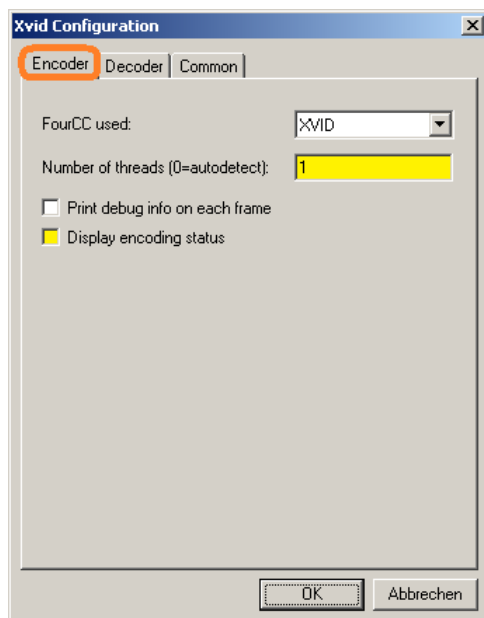
⁴ Necessary due to problems in case of small image sizes.

⁵ Necessary due to repeated images during begin of sequences.

Zone Options:



Other Options:



more:

