



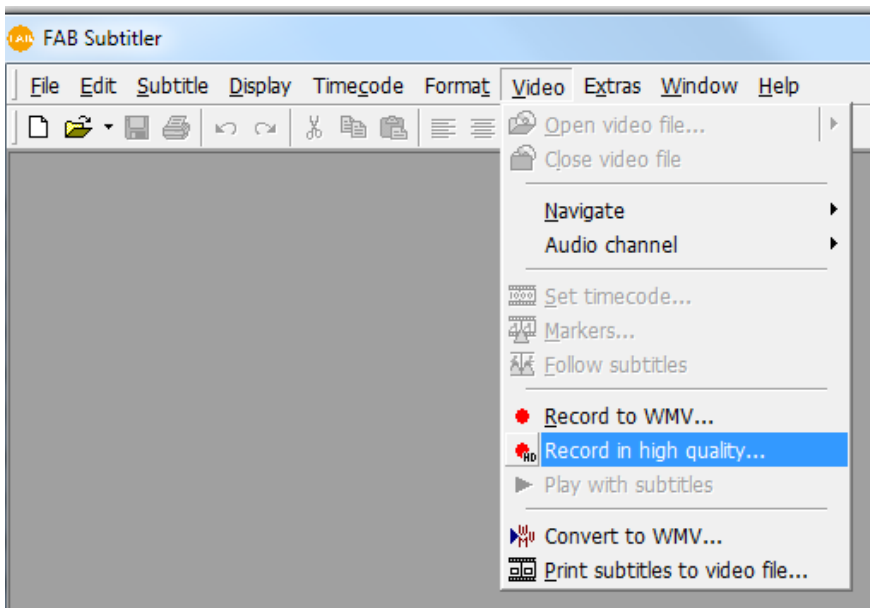
**FAB**

**NEW PRODUCTS AND  
FUNCTIONS IN 2010**

# FAB SUBTITLER

## HD Video recording and playback in high quality

Is a new feature that enables recording of HD sources from Decklink to MPEG-2 files and is available in the FAB Subtitler 6 MPEG Edition. A Decklink video card must be present and set as the source to enable this feature. The functionality is accessed from the menu »Video / Record in high quality«



The bitrate for high quality video recording can be set in Options / System / Video in a window.

## Playback of high quality video with subtitles

High quality video can be played out to Decklink with subtitles. Clicking »Video / Play with subtitles« opens the new dialog that enables playback of video to Decklink output. It also controls the VCR if it's connected. The display window shows the opened media information, progress and a preview of the video.

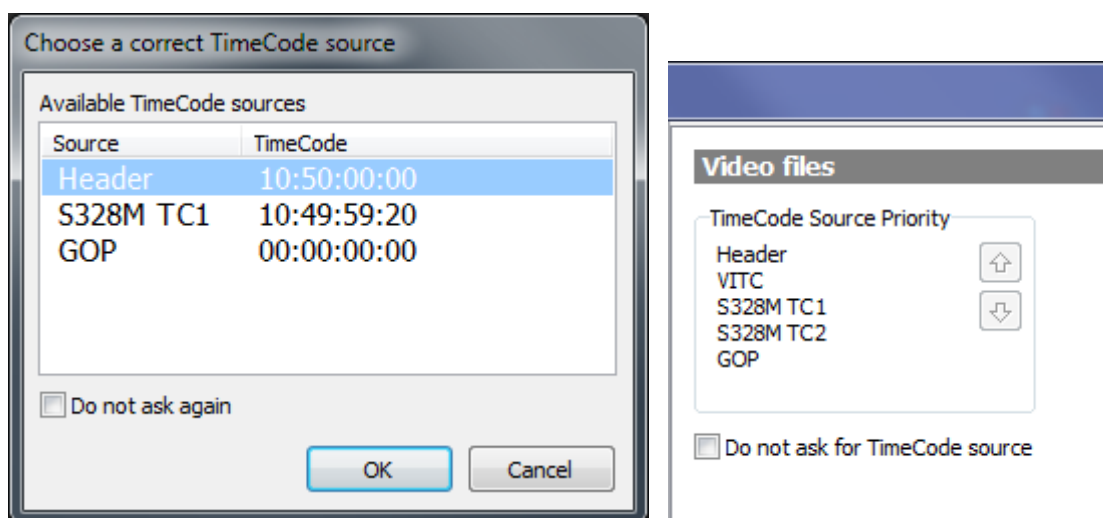


## Audio scrubbing

When audio scrubbing is enabled each time we move back or forward a frame the sound for that frame is played out, similar to analog VCRs' jog control.

## TimeCode selection

A correct TimeCode can be selected if an MXF file has multiple TimeCodes. Supported TimeCodes are read from the MXF Header, S328M TC1 & TC2, VITC and MPEG GOP. If "Do not ask again" is checked then that TimeCode source will be moved to the top of priority list, which can be configured in Options / Files / Video files. If there's only one TimeCode available or all TimeCodes are equal then the dialog is not shown.



## Improved MXF support

Added support for various MXF formats and improved reading and writing speed (FullHD). Added support for S328M TTX subtitles, Omneon specific subtitles and S436M subtitles. S328M subtitles are a part of the MPEG user data stream and can be reused outside of MXF. S436M subtitles are in OP47 format and are a separate stream in MXF.

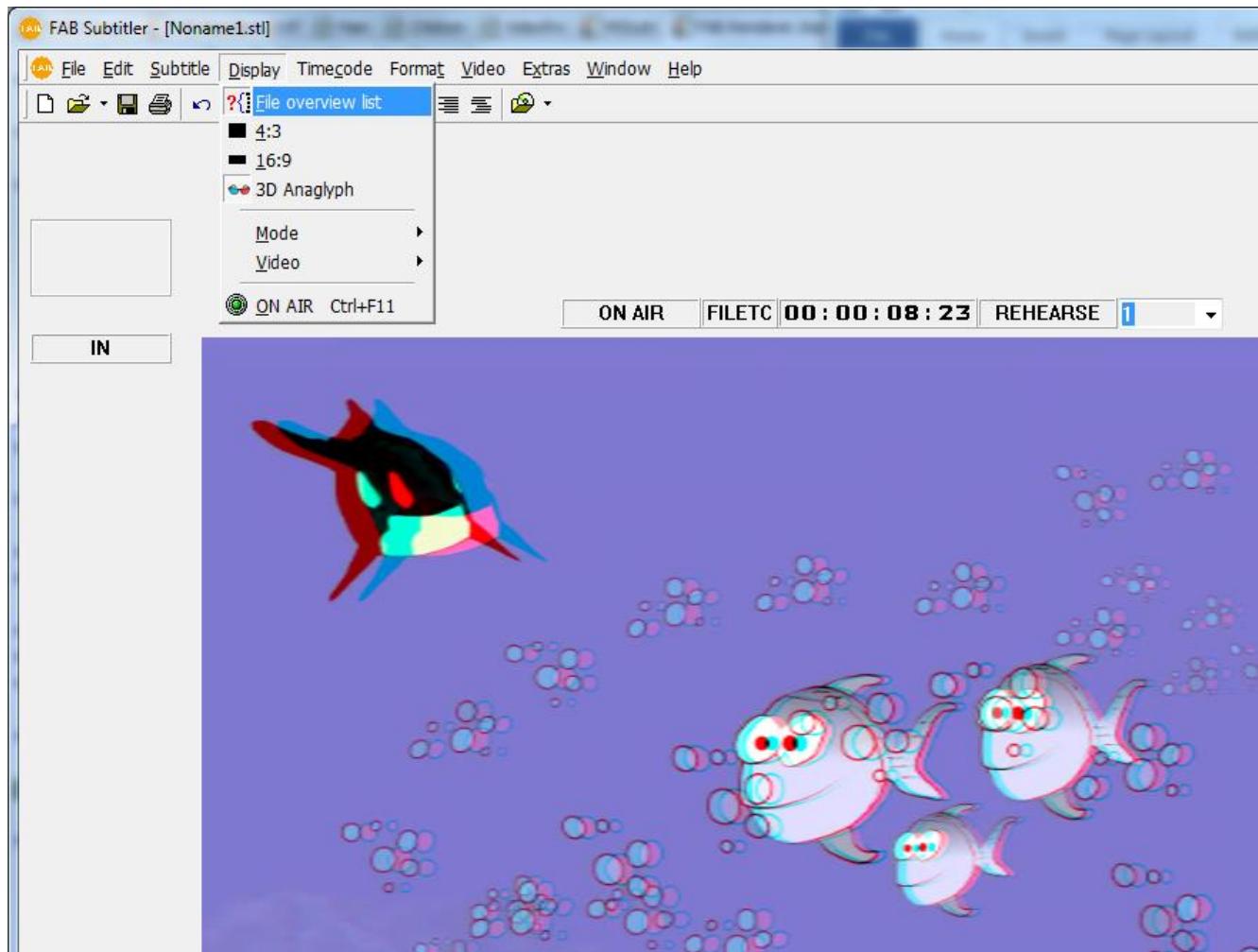
## Faster bitmap preparation in high-res

Bitmap preparation for HD resolutions has been improved. FAB Subtitler can now use all processors and cores in the computer for bitmap preparation which greatly reduces preparation times.

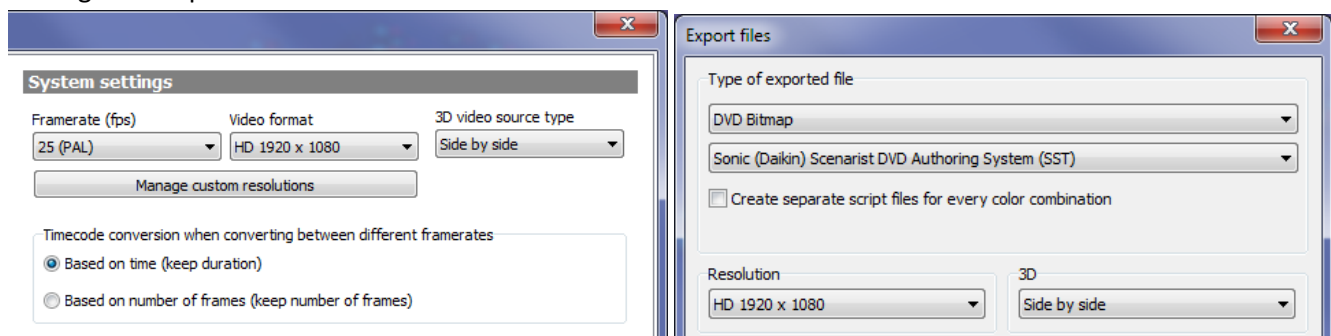
## 3D Subtitling - Side-By-Side and Anaglyph

Support for 3D sources encoded as side-by-side images. Preview is supported as an anaglyph image (Red-Cyan colored glasses). The option is accessed through “Display / 3D Anaglyph” menu. Subtitle’s depth and orientation can also be controlled. 3D side-by-side open subtitles can be exported or embedded in video or played out to Decklink.

### Menu and anaglyph preview

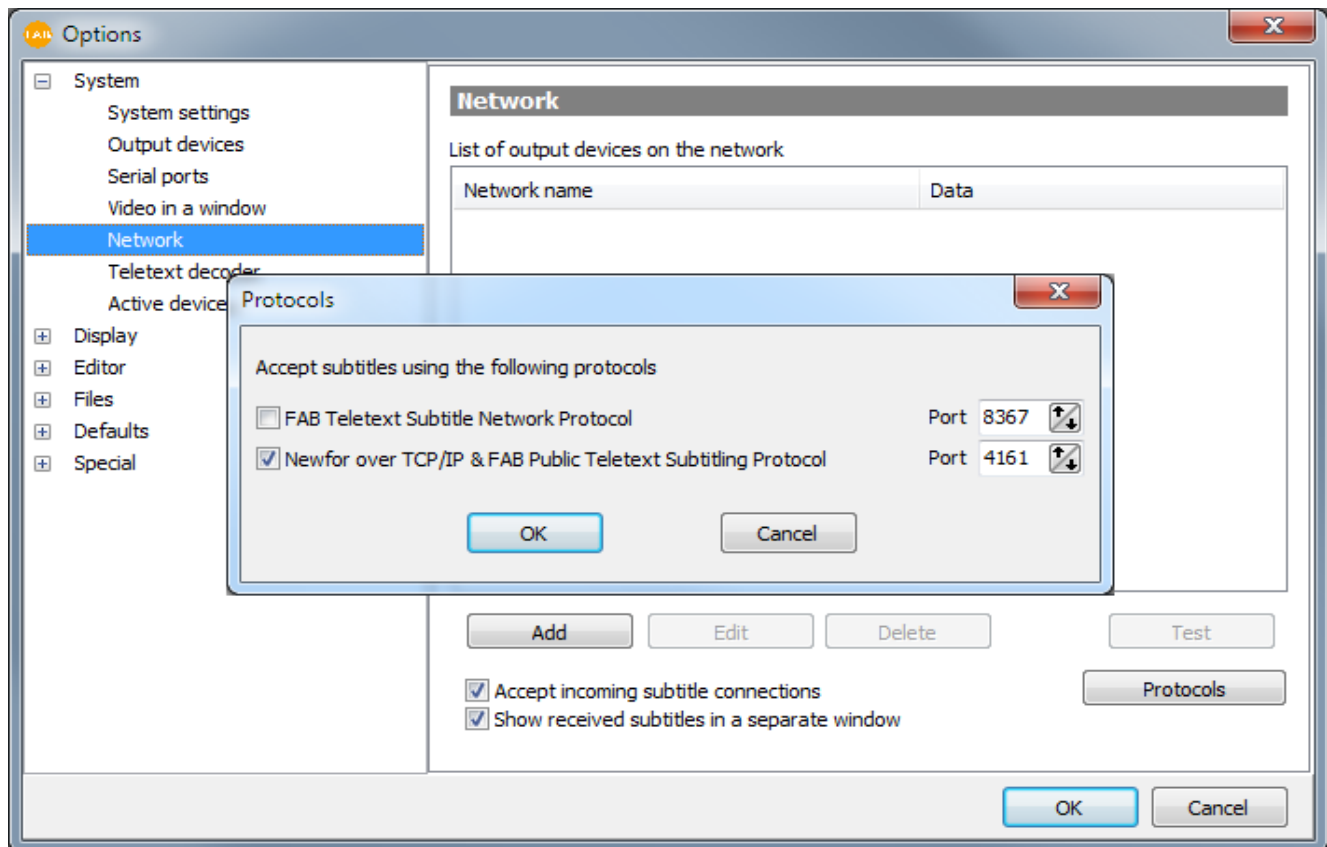


### Settings and export



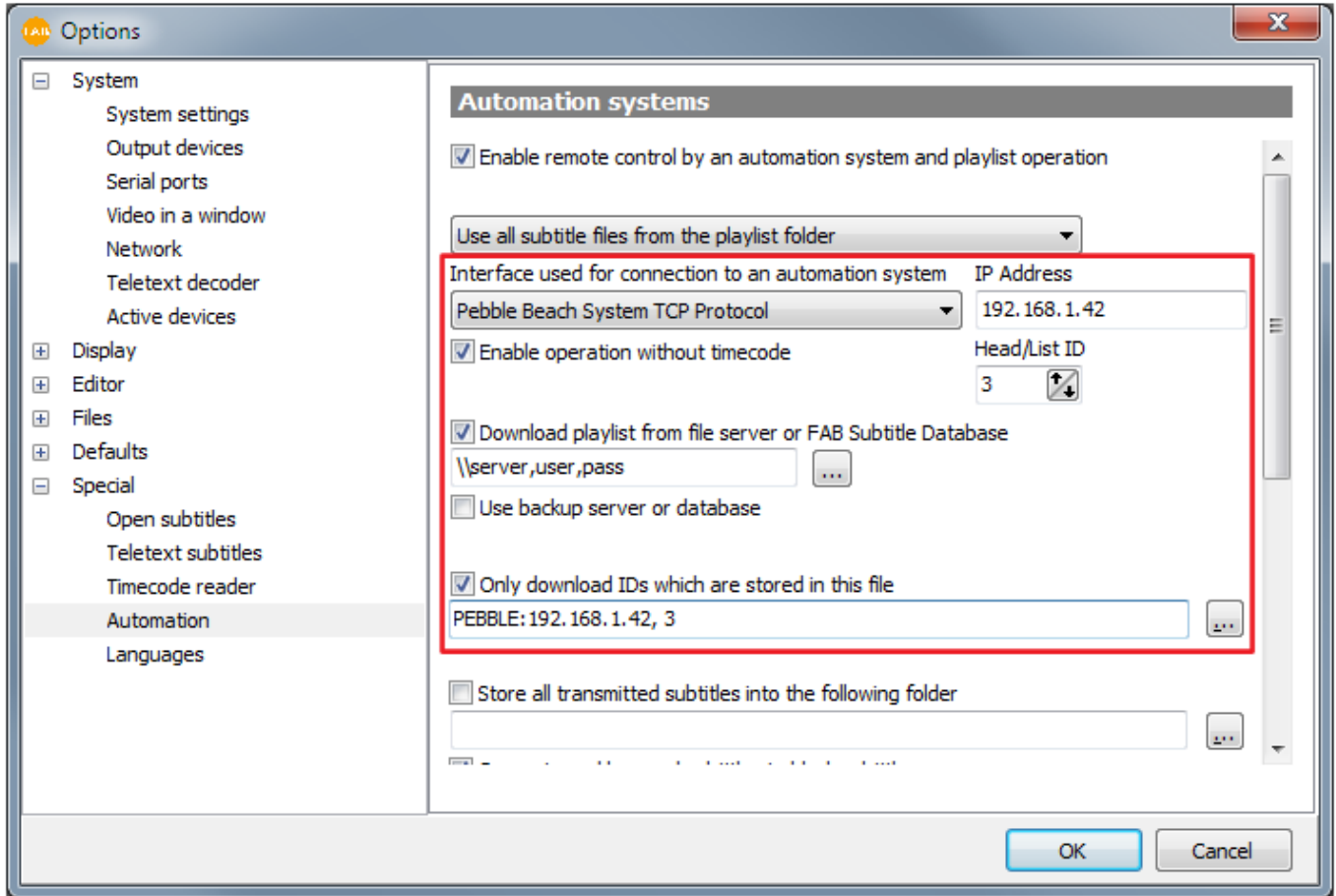
## FAB Public Teletext Subtitling Protocol

The FAB Public Teletext Subtitling Protocol specifies communication between a client that wishes to transmit teletext subtitles and FAB Subtitler BCAST Software which can transmit Open/DVB/Teletext subtitles. The specification for the protocol is freely available in the manual.



## Pebble Beach integration

FAB Subtitler BCAST can connect to the Pebble Beach systems that implement Pebble Beach TCP protocol. The subtitler can receive playlist change notifications from the Pebble Beach system and automatically start subtitle transmission. It can also monitor Pebble Beach playlist and download subtitles from the server to the broadcasting workstation so that they are available for the transmission.



## Conversion of teletext subtitles to Open/DVB subtitles

FAB Subtitler XCD and FAB Subtitler BCAST can convert teletext subtitles to Open or DVB subtitles. The conversion of the horizontal and vertical position from teletext to open/DVB subtitles is drastically improved. Teletext subtitles can be received over TCP/IP and also decoded from PAL or SDI signal.

## Bitmap aspect ratio follows the aspect ratio in the DVB stream

Aspect ratio information is decoded from the transport stream data on the FAB DVB Interface and sent to FAB Subtitler broadcasting stations. This information is then used for bitmap generation. That way, subtitles are always generated with the correct aspect ratio even if it is not constant.



# FAB MEDIA ENCODER

## Imprinting of running time code

When recording from live sources or when transcoding video, the current time code can be imprinted as an overlaying image at the top of video. Custom text can also be displayed bellow the time code. This feature is available in FAB Media Encoder and FAB Media Converter and is turned on in options.

Insert visible timecode

Insert the following text bellow timecode

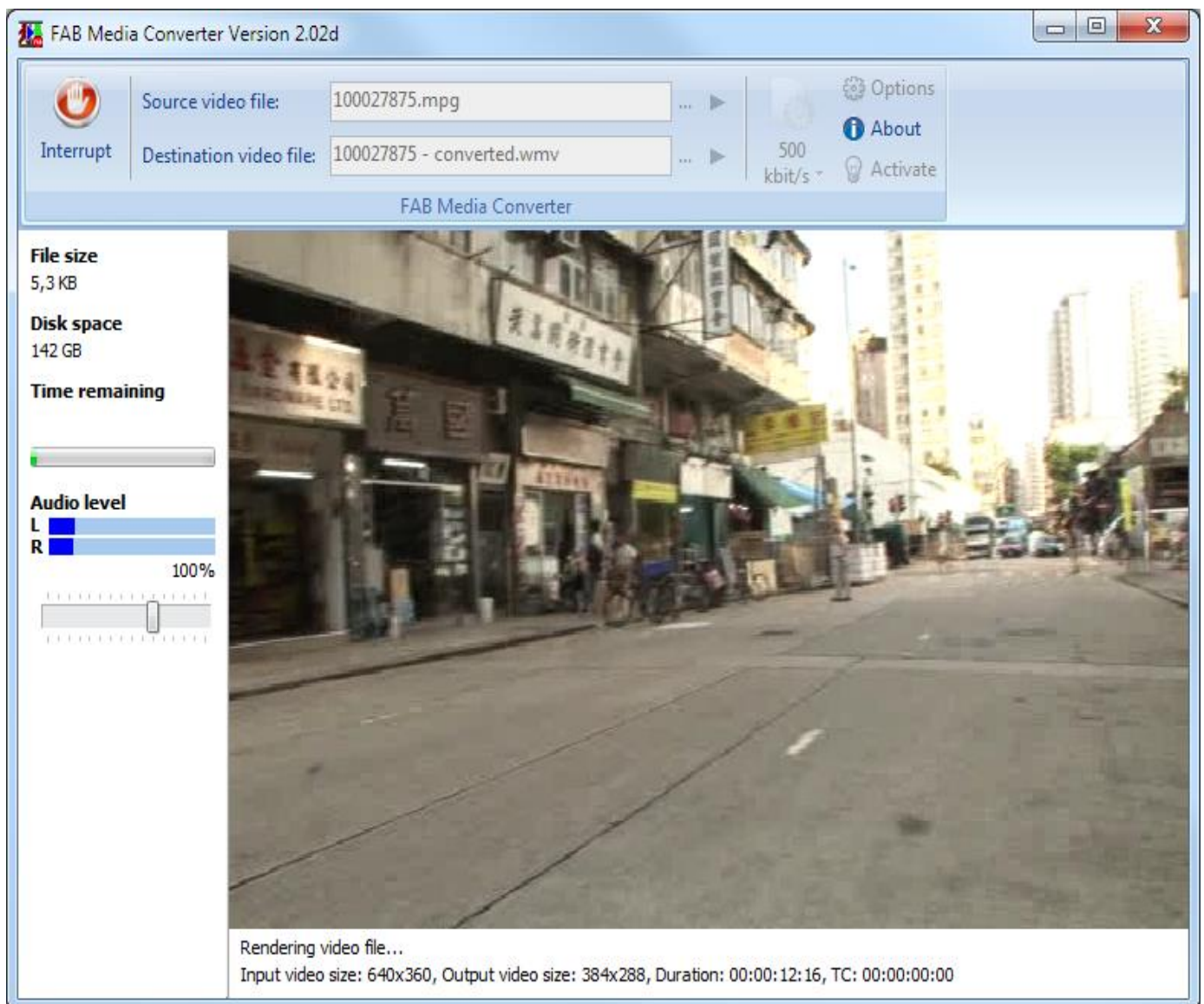
NOT FOR RESALE

The screenshot displays the FAB Media Converter Version 2.02d interface. At the top, the source video file is 'DR2MARCA.mxf' and the destination is 'DR2MARCA - converted.wmv'. The rendering speed is set to 500 kbit/s. On the left, there are controls for 'Interrupt', 'File size' (411 KB), 'Disk space' (579 GB), 'Time remaining' (a progress bar), and 'Audio level' (L and R channels at 100%). The main preview window shows a video frame with a green grass background. A black box at the top center of the video displays the timecode '00:00:06:15' and the text 'NOT FOR RESALE'. A large red letter 'M' is visible on the right side of the video. In the foreground, several DVD covers are fanned out, including 'EL y', 'EL ROSTRO IMPERETRABLE', and 'WAYNE'. At the bottom of the interface, it indicates 'Rendering video file...' and provides technical details: 'Input video size: 720x608, Output video size: 384x288, Duration: 00:00:10:07, TC: 00:00:00:00'.

# FAB MEDIA CONVERTER

This completely new application allows for simple conversion from various sources (MPG, MXF) into preview quality Windows Media file (WMV). Different compression profiles can be configured and visible time code can be included in the converted video.

Also framerate conversion is done, for example from 50fps to 25fps to enable preparation of subtitles for HD video material.





# FAB WEB ACCESS

FAB Web Access is a new browser based application where users can view their licenses, license statuses, download the latest versions of licensed products and their license files and/or serial and unlock keys.

After logging in, the user is presented with a list of registered licenses. Anyone with a valid serial number can create an account and log in on the following page:

<http://www.fab-online.com/fwa>

The screenshot shows the login interface for FAB Web Access. At the top left is the FAB logo. The page title is "Login" and the version is "FAB WebAccess 1.1.3890.19376". Below the title, there is a "Web Access" sidebar. The main content area contains a message: "To access your software licenses and online support please login or create a new user account". There are two input fields: "Email address" and "Password". A checkbox labeled "remember my email address" is checked. Below the input fields are two buttons: "Log in" and "Forgot password". At the bottom, there is a link "If you do not have a user account you can create one here" and a button "Create a new account".

## License view

The screenshot shows the "Software licenses" page. At the top left is the FAB logo. The page title is "Software licenses" and the user is logged in as "Hello, Istvan". There is a "Log out" link. Below the title, there is a "Web Access" sidebar. The main content area contains a "Filter licenses" dropdown menu with "sub" selected. There are three links: "Display licenses covered by support contract", "Display distributor's licenses", and "Display registered software licenses". Below these links are three license entries, each with a green checkmark icon. The first entry is for "FT-SUBTITLER PRO" with product description "FAB SUBTITLER PROFESSIONAL EDITION", download software "subtfull.exe", and installation password "9Zxr". The second entry is for "FT-SUBTITLER BCAST" with product description "FAB SUBTITLER BROADCAST EDITION", download software "subtcorp.exe", and installation password "Jhk3". The third entry is for "FT-SUBTITLER BCAST" with product description "FAB SUBTITLER BROADCAST EDITION", serial number "145", purchase date "2009-09-23", warranty expires on "2010-09-07", and comment "subtcorp.exe". Below the license entries are two links: "Copy all licenses to clipboard" and "Download page for all FAB products". At the bottom, there is a section "Register an additional software license" with a "Serial number" input field and a "Register" button.

In the license view, the licenses can be filtered by any field and the resulting list of licenses can be copied to clipboard. Here a user can register additional licenses by supplying a valid serial number.

# FAB DVB INTERFACE

## TS over IP

FAB DVB Interface supports transport stream transport over IP networks. Various addressing modes (unicast, multicast, broadcast) and transports (UDP, RTP) are supported. Multiple IP interfaces can be configured and each can process multiple elementary streams packetized into a transport stream.

The screenshot shows the 'FAB DVB Interface Configuration v2.04b' window with the 'Transmission' tab selected. The configuration is for a single instance named 'TS over IP'. The 'IP transmission parameters' section is highlighted with a red box and includes the following settings:

- Addressing: Multicast
- Interface: VMware Virtual Ethernet Adapter for VMnet1 | 192.168.208.1/255.255.255.255
- Transport: UDP
- Multiplexer IP: 239.192.1.1
- Port number: 1004
- TS packets/IP packet: 7

Other configuration options visible in the window include:

- Name: TS over IP
- Receive packet size: 188/204 autodetect
- Transmit packet size: 188 byte packets
- Max transmit bitrate: 192000 b/s
- Send before PTS: 700 ms
- Limit minimum bitrate:
- CBR output stream:
- Generate PSI:
- Transport Stream ID: 0
- Original Network ID: 0
- Lowest PMT PID: 0

Buttons at the bottom of the window include 'Open log files', 'Stop transmission of inactive PIDs', 'OK', 'Cancel', and 'Apply'.