



LIBERO HIGHLIGHT

LiberoHighlight is faster and more powerful than ever: After a complete overhaul and redesign, the newly released Libero Highlight 4.0 appears much simpler and is faster to operate. Additionally, many features have been added or improved: Vizrt Integration, iPad control, advertisement insertion, customization of graphical elements and many more.

DRAMATICALLY REDUCED TURN-AROUND TIME



The product structure and user interface have been completely overhauled and simplified. At the same time video processing has been sped up significantly. Scenes with tracked telestration or player tracks can be done in **less than 2 minutes**. In most situations it is possible to create a scene with a 3D camera transition in around three minutes, and a combined scene with all major features in less than 5 minutes.

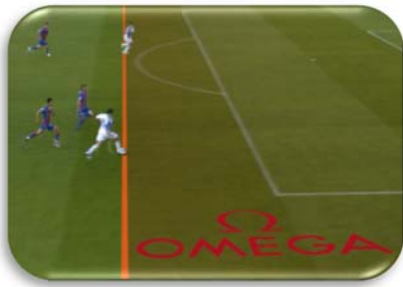
INTEGRATION WITH THE VIZRT PLATFORM



With LiberoVision now being a member of the Vizrt family, it is possible to profit from first synergies: clips exported from Libero Highlight 4.0 into the Vizrt workflow are **directly accessible by all Vizrt products**. Examples include

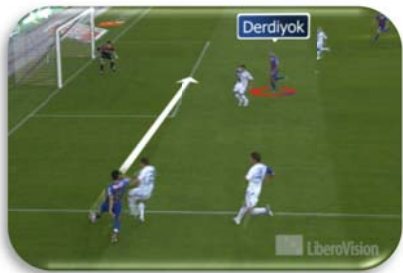
- Packaging clip play-out within predefined templates including titles of Viz Trio.
- Interactive stop points when controlling the playout from an iPad on Viz Anchor.
- Interactively inserting your own styled tied-to-pitch graphics in a Viz Artist scene.

IN-CONTENT SPONSORING AND ADVERTISEMENT INSERTION



Embedding virtual advertisements into the generated content provides an excellent opportunity for your commercial partners to place their brand. **Content sponsoring** allows for the placement of tied-to-pitch advertising banners in a prospectively correct and unobtrusive way. The advertisements are perfectly embedded and will not affect your viewer's perception of the scene. Foreground objects like players are recognized and can even walk over the advertisement.

ANNOTATION CUSTOMIZATION: PLAYER LABELS



Besides the improved handling of the player labels, another valuable element has been added to the player labels to adapt them on the channels' preferences. It is now possible for the clients to **redesign the player labels** in their look & feel or channel layout by just uploading a graphic file into the Libero workflow.

SIMPLIFIED USER INTERACTION AND USER INTERFACE



Based on customer feedback various improvements have been implemented in Libero Highlight, which lead to **significant turn-around time reduction**:

- No video acquisition anymore for remote productions using EVS or one-camera sequences
- All menu tabs have same layout structure (in-content menus)
- Improved handling of clip synchronization
- Improved handling of continuous camera calibration
- Improved handling of object cutout (with preview)
- Direct 3D flight creation after of object detection (creation and export not necessary anymore)
- Improved quality of automatic 3D flights (automatic black hole removal)
- Improved handling of player naming
- Improved camera calibration detection for football
- Added camera calibration detection for American football

IPAD INTERACTION



Controlling the playback and telestration from an iPad in your studio show has never been easier. Just connect to the LiberoVision system and **control the Libero Telestrator from an iPad.**

NEW ANNOTATION FEATURES



Beside the improvements of usability and the option to add virtual advertisements on the field, the set of annotations have been significantly extended and also allows adaptations:

- **3D arrows:** This feature can be spectacularly combined with the 3D flight functionality to create flights around the upcoming pass path in the air. The tool is very easy operable in order to edit the height and shape of the whole 3D arrow. Especially for American football, baseball, football, rugby and basketball you can use this tool for long air passes or nice strikes.
- **Triangle areas:** This feature is especially useful for American football to visualize a free triangle area, but can be also available on any other sport. All you need to do is to click on three different objects/reference points on the field.

NOTEWORTHY LIBEROVISION PRODUCTS



At the same time, LiberoVision releases **Libero Offside 2.0**, the only 3D instant offside replay system on the market, and **Libero Playbook 1.0**, an in-game replay system with a turn-around time below one minute.



Have a look at our homepage www.liberovision.com for details!

DISCLAIMER

- Expected release date of Libero Highlight 4.0 is November 1, 2011.
- Some of the features described in this document might not be available for all sports or to all customers.