

# **VIDEO RECORDING SYSTEM**

**At European Athletics Major Televised Events**  
**January 2017**

## Recommendation

European Athletics is to search for and hire a professional company to provide video recording operations to demonstrate the best possible accuracy of performance and the violations of the rules at its major events. The company is to provide video recording which would be supplementary to HB coverage. In addition, the company is to equip the technical video room for recording and replay of the feeds both from HB and own cameras.

European Athletics Head Office (with the support from Event & Competition Commission) is to collect the quotations from the companies providing such services. To make a request for quotations the following minimum requirements are to be presented to the companies:

- Full HD recording (if possible with 100 frames per second) of track & field events with the specific focus on the following:
  - o Bends: For the events run in lanes, the focus is on the chest and legs. One camera for each half of the bend.
  - o Straights: front and back focus for each straight, the focus is on the chest and legs.
  - o Relays: sufficient cameras for the exchange zones to follow the position of the starting athletes and the position of the button (with the cameras placed at the corner points of the stadium)
  - o 800m breakline
  - o For all track events, there shall be a possibility to see each participating athlete not only leading athlete (s).
  - o Long Jump/Triple Jump take-off boards (if not covered by the HB with a secured play-out)
  - o Throwing circles (front and back) with the ground view
  - o Javelin arch with the ground view
  - o Pole Vault bar (if not covered by the HB with a secured play-out)
  - o Landing area for Javelin and Discus Throw with the ground view

*Note: The exact number and positioning of the cameras is to be discussed. Please, see Figure 1 below as an example.*

- Equipped technical room to provide possibility to record and replay all signals (both HB and supplementary cameras). The following technical specifications are to be considered:
  - o All signals are to be delivered and recorded in full HD resolution on the server;
  - o The signal delivery is has to be either by BNC cables or on Single-Mode fibre lines (to provide opportunity for replay in real time on a screen during recording)
  - o The recorded files are to be stored on the server in time-sliced files (2-3 minutes per slice/file)
  - o The split screen is to be provided to provide possibility to watch all feeds in real time
  - o The HDD player is to be provided to display slow motion and frame by frame replays when needed.
  - o HB feeds and all own signals shall be replayed synchronized (i.e. all related pictures of a specific event are showing the same moment)
- Equipped Jury room to provide possibility to replay recordings. The following technical specifications are to be considered:
  - o The HDD player is to be provided to display slow motion and frame by frame replays when needed.

- HB feeds and all own signals shall be replayed synchronized (i.e. all related pictures of a specific event are showing the same moment)
- Possibility to replay material recorded or photographed by protesting teams

*Note: The exact number and specifications of the technical equipment is to be discussed. The possibility to rent equipment on site is to be considered (in case shipping costs are too high).*

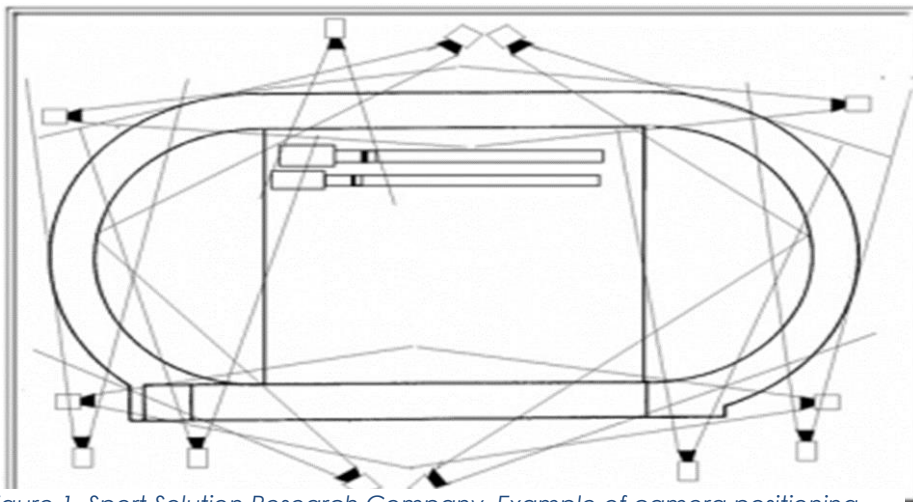


Figure 1. Sport Solution Research Company. Example of camera positioning

Figure 2. Sport Solution Research Company. Example of camera positioning

The final decision to select the company (service provider) will be based on the recommendation by the Events & Competition Commission considering all related aspects (e.g. cost-efficiency, company's profile, etc.).