



Player Analysis Technology Approval certificate

Zenniz

Test code: PAT-16-015

Serial no: n/a

Software versions:
1.1 (Linux)

Firmware version: n/a

Issue date: 6 January 2017

Objective: To test and evaluate Zenniz Player Analysis Technology according to Rule 31 of the 2016 Rules of Tennis.

Result: Approved



SUMMARY

Multiple microphones fixed around the court are used to capture audible events in play. The microphones are connected by cables to a central unit which houses a touchscreen user display and loudspeaker. Audio signals generated by ball impacts on the court and racket are detected by the microphones and used to reconstruct ball trajectories in three dimensions.

Players must log in to the Zenniz server, via the touchscreen display, to start data capture. Information shown on the display is dependent on the mode selected. An 'ITF match' mode, which can only be selected and deselected by the club/event administrator (not the players), limits the information provided to: the players' names, scoreboard, serve speed and (optionally) line-call 'in'/'out' decisions.

Coaching information, such as match statistics and virtual replays of rallies, are displayed on the touchscreen display in other operation modes and available on internet-enabled devices. Players automatically share data with their opponent.

Restrictions on the access by a player to Zenniz components during periods when coaching is not and is allowed are as follows:

| COMPONENT | NO COACHING | COACHING |
|--------------------------------------|---------------|-----------|
| Microphones | Permitted | Permitted |
| Touchscreen display (ITF match mode) | Permitted | Permitted |
| Auxiliary device (e.g. smartphone) | Not permitted | Permitted |