Squash Tournament: Eredivisie individueel 2021

About the project

With a ball that can fly at a speed of up to 281 km/h, squash is a sport that's **exciting to watch** but very difficult to film. Our apps were used at a Dutch Junior Open 2019 to great success. This year, our newly released CamSwitcher App allowed Sander van der Brakel, squash enthusiast, developer, and owner of Mediavibe and iMakestuff to push squash live streaming at Frans Otten Stadium to the next level.

Live stream setup of **Eredivisie individueel 2021** tournament consisted of two AXIS cameras with CamStreamer apps. The result was an impressive-looking sports event broadcast featuring a live commentary, dynamic switches between cameras, and custom graphic features.

"The overlays and scoreboards are designed with a lot of care to ensure **perfect readability**. With CamScripter App we created a lot of detailed dynamic elements that add to the professional feel. Have a look at the little squash ball next to the **game score** that indicates which player has served last: it switches automatically based on the **score input** by the referee," van den Brakel pointed out.

Technical solution

The main camera is a AXIS Q3517-LV mounted high up the ceiling. Van der Brakel explained: "This one of the few Axis models that can **stream 2K** at a **high frame rate of 50/60 fps**. This ensures the sharpest image for the fast-moving players on the court. Most importantly, this is the best way to follow the fast-moving small squash ball." An AXIS T8351 MK II Microphone records the sound on the court. "For daily use, this microphone

Video quality	1440p
Audio	AXIS T8351 Mk II
Camera model	AXIS Q3517-LV
	AXIS M1137
ACAP applications	CamStreamer App
	CamOverlay App
	CamSwitcher App
	CamScripter App
Streaming platform	YouTube
Location	Netherlands

is plugged directly in the camera. When we have events with live commenting and multiple angles, we plug this microphone in a **sound mixer**: Samson MXP144FX MixPad," he added.

The side camera is an AXIS M1137 with CamOverlay App and CamScripter App on board to show the scoreboards and logos of sponsors. Van der Brakel said: "By using a second camera at the left side wall, we can switch between the overview at the back of the court and a more **detailed view** at the backhand side of the court. This adds a lot to the professional look of the broadcast. **Switching** from one to the other camera is fluid and perfectly in sync. Even when the second camera is a lower fps capable camera. It just works." Thanks to CamSwitcher App, it's possible to **use audio** from the sound mixer instead of M1137's internal microphone, even when the camera is on.

The final pieces of the streaming setup are a **MacBook** and an **iPhone**: "We use a MacBook for switching between the cameras. When switching as fast as

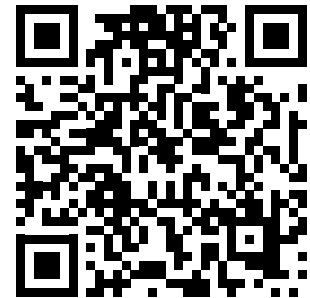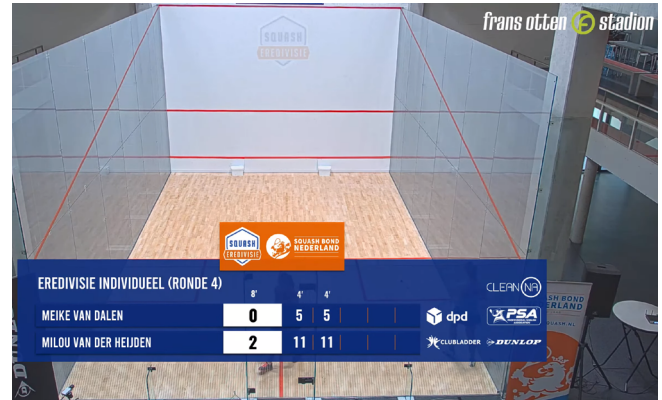# Squash Tournament: Eredivisie individueel 2021

we need for squash, the **shortcut buttons** to switch cameras are indispensable. It enables the director to **switch cameras** while not having to get their eyes off the match," van den Brakel said.

At the beginning of each match, iPhone 8 streams an image of the commentators to CamOverlay App as a **picture-in-picture**. He explained: "Viewers love to see the faces that belong to the voices of the commentators."

The result

Eredivisie individueel 2021 was the perfect opportunity to test the potential of our latest release, the CamSwitcher App. When asked what he likes the most about the application, Sander van den Brakel replied: "What's not to like! All **features** are very useful. If we have to name our favorites it's the Shortcuts Function to switch cameras and the new ability to **switch to pre-recorded videos**.

The latter is great to **show interviews** with players, commercials from our sponsors, and other entertaining footage. Speaking of sponsors: the ability to show **sponsor logos** and videos made our investments in the hardware and software a lot easier!"

camstreamer.com/resources/squash_tournament