

## Case study

# Czech Powerchair Hockey League Livestreams Playoff via CamStreamer Apps

## Mission

The promotion budget is always a complicated topic for associations created and managed by sports enthusiasts. That's why Czech Powerchair Hockey Federation (CPHF) searched for the most **cost-effective livestreaming solution**. Their league playoffs had to be on a **professional level** while still **easily manageable** and most importantly enjoyable for the viewers.

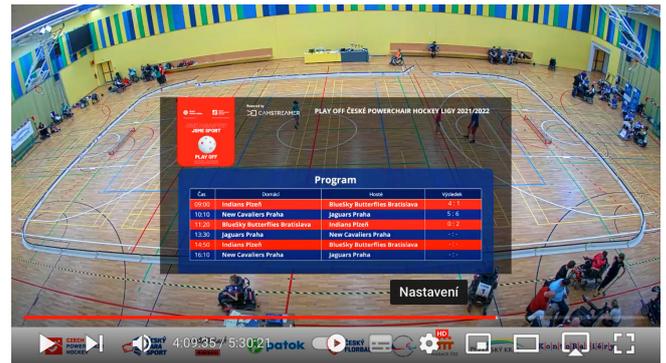
## Solution

Three AXIS IP cameras were deployed to get the most comprehensive view of the court. **AXIS P1448-LE with 4K resolution** and two view areas set up as PTZ positions (center view and overview) served as the main camera at the center of the court. Two additional **AXIS P1455-LE cameras with 1080p resolution** were placed on the basketball hoops on both sides of the court to perfectly capture the situation around the nets.

On the main camera, [CamStreamer App](#) was installed for streaming **directly to YouTube** and [CamSwitcher App](#) was installed for switching between **all four view areas**. The switching was done **manually through numerical keyboard shortcuts**. [CamOverlay App](#) was installed on all three cameras to display **sponsor logos** and **the score as graphic overlays**. The audio was recorded through an **external wireless microphone** connected to the main camera.

## List of Supplies

<b>Video quality:</b>	Full HD
<b>Audio:</b>	external microphone
<b>Camera model:</b>	<a href="#">AXIS P1448-LE</a>
	<a href="#">AXIS P1455-LE</a>
<b>ACAP application:</b>	<a href="#">CamStreamer App</a>
	<a href="#">CamOverlay App</a>
	<a href="#">CamSwitcher App</a>
<b>Streaming platform:</b>	<a href="#">YouTube.com</a>
<b>Location:</b>	Czech Republic



## Result

"From the technological point of view, the solution was stable and everything went well. We are very happy we could present our playoff online," said **Lukáš Kroupa, the Chairman of the Czech Powerchair Hockey Federation**. However, the cameras were used for more than just livestreaming. All recordings were saved on SD cards and utilized in the **back analysis of the referees' work**.



## Livestream Professionally with CamStreamer Apps

Apart from the **reliability and efficiency** of selected hardware and software, the biggest advantage of this solution is the fact that all **applications run inside the camera** which cuts down the cost of the required hardware. Only one camera is needed to run

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[CamStreamer App](#) for streaming directly to sites such as YouTube, [CamOverlay App](#) for adding **graphic overlays**, and [CamSwitcher App](#) for combining **multiple video sources** into one stream and creating playlists.

[camstreamer.com/resources/  
power-chair-hockey-league](https://camstreamer.com/resources/power-chair-hockey-league)



### About Czech Powerchair Hockey Federation

Since its conception in 2007, the Czech Powerchair Hockey Federation takes care of the cooperation and promotion of powerchair hockey between players and viewers alike. Czech Powerchair Hockey League is the highest club competition in the Czech Republic and is organized annually since 2015.

Read more on [powerchairhockey.cz](https://powerchairhockey.cz)

Watch the Recording