

# PTZ OPTICS CASE STUDY



## EDUCATION SPORTS BROADCAST

### CUSTOMER SUCCESS STORY

## From Basketball to Soccer, Willamette University live streams sporting events to athlete friends and families

Willamette University is a small liberal arts school located in Salem, Oregon where Christopher Sabato, the Assistant Director of Athletics for Media, organizes live broadcasts for the sports teams. From outdoor soccer matches to indoor basketball games, Sabato shares with us his techniques for live broadcasting these events and how the students families watch from out of state. Using a selection of live streaming hardware and software which includes PTZOptics cameras, Wirecast, Magewell capture cards, xKeys controllers and more, Sabato regularly produces high quality live broadcasts the schools sports fans enjoy all season long.

### PRODUCT DETAILS



#### PTZOPTICS PRODUCER KIT

Powerful PTZ capabilities with 3G-SDI 1080p video inputs for video conferencing.



#### xKeys 24 Buttons

This xKeys controller makes life easier allowing the team to pre-program buttons for camera switching and more.



#### Wirecast

Willamette University uses Wirecast Software to produce and stream their sporting events.



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# Live Streaming Sports



Here you can see the an example table setup for live streaming the action equip with a joystick controller and live streaming computer.

During every live broadcast, Sabato tries his best to include a play by play announcer audio feed "It's our goal to have play by play in all our sports broadcasts." Once the game starts a dedicated play by play announcer will handle all audio including ad spots bumpers and pre-recorded interviews. The Technical Director can play video overlays, with no audio, to match what the PxP is sending. The Technical Director mixer is sending an aux out to a Galaxy Audio Anyspot wireless receiver. The play by play audio workflow is explained below along with the entire video/audio system outline.

## FROM BASKETBALL TO SOCCER...

For outdoor broadcasts during the Soccer season Christopher uses a PTZOptics 20X-SDI camera housed an outdoor enclosure to capture all the action using a PTZ joystick controller. The camera captures all the action from high above the field mounted on top of a SkyHawk TriPod mount made by US Sports Video. This giant tripod allows Christopher to follow the direction of game play from high above the athletes on field.

At Willamette University, the majority of the student population comes from out of state making it important to the Athletics Department that these families are able to watch the live sports broadcasts online. During Basketball season, Sabato uses 5 cameras to produce a professional video broadcast with the PTZOptics Producer Kit, Wirecast 7, HDMI & HD-SDI Magewell capture cards and the xKeys 24-button controller. The broadcast quality looks like it could be available on ESPN and Sabato has used a few IP networking techniques to pull in the live scoreboard timer he explained for us. "I have a clock camera setup using NDI and Newtek's Connect Pro that came with the producer kit with effectively zero latency." Using a clock camera as you can see in the picture above, Sabato is able to take the video feed and crop just the timer and shot clock for his game title in Wirecast. With a little Wirecast magic, Sabato is able to layer the live shot clock and game time onto his virtual scoreboard title.



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# Live Streaming Soccer



"I don't have a big production crew. So everything has been designed to be operated by myself or one other work study student" says Sabato. The Dotworkz outdoor camera enclosure is designed for permanent outdoor use and includes two weather sealed cable ports which Sabato uses for HD-SDI video and RJ45 converted to DB9 to be used for camera control with the HuddleCamHD joystick.

"This system makes live streaming our soccer games easier for me to manage and setup on a regular basis."



You can watch a live interview with Christopher on our YouTube Channel. Don't miss the detailed setup outline from Christopher outlining his setup available at [www.PTZOptics.com/portfolio/education](http://www.PTZOptics.com/portfolio/education).

## ABOUT PTZOPTICS

PTZOptics provides high quality video conferencing and broadcast cameras with HDMI, 3G-SDI, USB 3.0 and IP Streaming. Our approach to video camera manufacturing focuses on value. We strive to provide best in class features at affordable prices while we extend our reach with open source camera controls, free Crestron/Extron programming modules and amazing technical support.



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