Setting up live video streaming of football matches of FIFA Confederations Cup 2017 within the stadiums with a minimum possible delay.

**Task**

**Elecard solution**

Development of hardware and software solution for encoding of SDI signals and further real-time broadcasting with a minimum possible delay.

**Customer**

Stadiums – organizers of the FIFA contests in Moscow, Saint-Petersburg, Kazan, Sochi

**Result**

- Seamless video streaming of the football matches at 4 stadiums at FIFA Confederations Cup 2017
- Delivery of TV signals from SDI-HD cameras to the end-users with 220 ms delay
- Development, system integration, and technical support of the encoding solution that meets high standards of the international FIFA Organizing Committee
- Extended agreement for setting up video streaming of the football matches of 2018 FIFA World Cup Russia at 12 stadiums
Solution implementation

Implementation of smooth FullHD 1980*1080 encoding of studio SDI-HD signals with further DVB-C modulation. Configuration of the encoding schemes using redundancy mode 1+1. Broadcasting video content in a real-time mode to TV sets of the football referees and viewers of the football matches within the stadiums with a 220 ms delay.

Key product

Elecard CodecWorks Encoder

A multifunctional real-time video encoder of HEVC/H.265, AVC/H.264 and MPEG-2 video which ensures adaptive bitrate video streaming via HLS and MPEG-DASH protocols, provides efficient usage of hardware resources and high quality of the output stream.

"Participation in such events is a fabulous experience and a huge responsibility. We do hope that Elecard cooperation with organizers of sport and cultural events will progress at a fast pace and company products will make its contributions to the success of events of different level and scale."
Elecard CTO
Nikolay Milovanov