

## 2013 Equestrian Endurance race – Borotín.

Attractive horse races through the eyes of powerful Axis IP cameras.



Organization:  
Hrdina Riding Stable  
– Borotín

Location:  
Czech Republic

Industry segment:  
Stadiums/Venues

Application:  
Video streaming

Axis partner:  
NetRex Ltd.

### Mission

Endurance horse riding is a fast growing equestrian discipline and a demanding sport requiring extremely well-trained horses, riders and support teams. Organization of these equestrian competitions also places huge demands on the event personnel. The Hrdina Riding Stable, which is organizing the third annual National Endurance race in the South Bohemian city of Borotín is well aware of that. 115 horses were registered for this and for other races as well. During two days they had to cover a distance of 180 km. Therefore, the event organizers were looking for ways to make the work of judges and referees more efficient and also for additional ways to introduce this attractive sport to the general public.

### Solution

The organizers decided to use Axis IP cameras and mobile monitoring solutions provided by NetRex. Thanks to these leased technologies the requirements of the event organizers were successfully fulfilled. NetRex MVS i 01 mobile systems fitted with AXIS P1354-E HDTV Network Cameras, suitable for day and night operation, were installed at the Start area and at veterinary checks.

Streaming NetRex services broadcasted video images and sound from cameras to a central platform where the stream was reproduced and subsequently distributed to audiences and to their computers, mobile phones or tablets. Recordings were continuously stored via the Internet in remote secure servers, and at the same time (in high quality) directly on SD cards inside the relevant cameras.

### Result

Direct broadcasting available on many websites allowed direct visitors but also many fans and the general public to soak up the exciting atmosphere of this attractive sport. The image transmitted by the cameras to a monitoring station and to mobile phones and tablets made the work of the event staff and support teams much easier. The recorded picture was an indispensable tool for referees trying to solve irregularities and, at the same time, it was used as a great marketing and promotion instrument. The overall benefits of the applied solution were further enhanced by economical lease prices paid for the entire technology, which did not put any significant financial burden on the event budget.



"The installed mobile camera system was really beneficial to our event. The wide range of use, quick installation and cost-effective rental pleasantly surprised us."

Antonín Hrdina, 2013 Endurance Race - Borotin event organizer.

### Live broadcast from virtually anywhere

Streaming from the highly demanding environment of endurance racing required sophisticated solutions. The selected mobile monitoring system NetRex proved to be an ideal tool for live video broadcasting and for transmissions of recordings from locations with limited access to power supplies or to the Internet.

"The NetRex MVS i 01 system is equipped with a high-capacity battery which keeps the equipment running for a minimum of 20 hours and may be recharged in just six hours. A distribution box with technologies including the camera may be easily and quickly installed on a wall, pole or a lamp post, which can actually be used to power the system," says David Capoušek, the director of NetRex – a company which leases, delivers and offers these types of solutions. The installed 3G/EDGE router provided a reliable connection and even covered the monitored area with a WiFi signal.

In addition to video streams, NetRex also provided a number of other usable information. "Through a web interface you may constantly see the current status of the process. Integrated GPS displays the current position of the device and sends an SMS or e-mail message to notify you about any changes in locations. The system will also notify you if the distribution cabinet is open, if the battery is low, or if there is a power failure or malfunctioning of the camera," adds David Capoušek.

The selected AXIS P1354-E Network Cameras provide excellent video quality in HDTV resolution. The most recent Lightfinder technology provided excellent sensitivity while retaining real colours even under very low light conditions. Videos streamed by cameras in high quality were recorded on a high capacity SD card directly in the camera, and lower resolution streams were sent via the Internet to the central site and stored. This video backup also allowed us to search quickly for specific events.

### All important scenes right in front of your eyes

Thanks to the Streaming NetRex technology you only needed to turn the system on and insert the generated video code into the relevant web page. It does not get any simpler than that. The easy-to-use web interface allowed the operator to define the video quality and broadcast times, including quick turn on or quick shut-down of the broadcast. Also the option to insert graphics and ads into live transmissions was great.

The application platform NetRex also transferred live broadcasts to smart mobile phones or tablets and allowed viewers who had no access to computers to watch the broadcast – all without increased demand on Internet connection available at that location.

Streams transferred to mobile devices, large screens, and to external monitors were much appreciated by the event organizers and by the support teams because they were able to constantly keep track of what was happening. Saved streams and records were also used by referees when assessing difficult or disputed situations.

### The present and the future

In addition to the high-mobility and easy installation and operation, a very convenient lease option for the entire system was offered.

This option, together with the ability to record other intelligent video applications directly into cameras opens up further possibilities for this solution, not only during organization of various events, but also for security surveillance systems installed at various important locations.

