

# Cinema control panel for a 5D movie theater

## Customer

A developer and supplier of animatronics (robotic models) and stage sets for trade and entertainment centers, theme parks, water parks and museums.

## Objective

Development of an application for the playback of movies, effects and motions of a 5D cinema platform.

## Solution

The software is implemented using the Qt 4.7 cross-platform library and the DirectShow technology.

## Benefits and Features

- The application is designed both for touch-sensitive control and computer mouse control
- Intuitive interface which requires no detailed study of documents
- Support for Russian and English interfaces



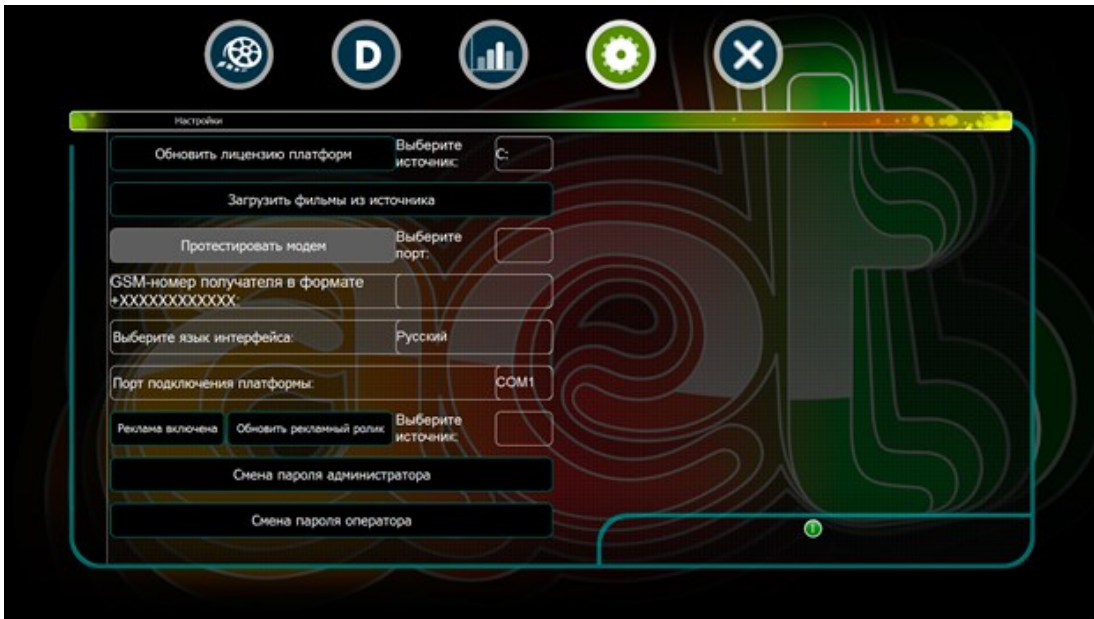
- The possibility of selecting movies from a convenient list with posters and detailed descriptions
- DVD recording of images generated using the movie theater video camera during the viewing session



- Support for an external monitor, which can be installed next to the 5D movie theater
- Data from the video camera are displayed on the external monitor of the 5D movie theater and in a separate window of the application
- To attract customers, it is possible to show promotional videos, pictures and trailers on the external monitor of the 5D movie theater
- The current time of the 5D movie shown is displayed
- It is possible to stop the movie playback in case of emergency
- It is possible to broadcast an MP3 audio greeting or advertisement in the movie theater



- As a means of protection against unauthorized access, the software features operator and administration authorization through password entry into the application
- It is fitted with automatic and manual diagnostics which does not allow the movie to start in case of malfunction in the 5D movie theater equipment
- It includes a license control system for 5D equipment and movies
- It keeps track of the number of people visiting the 5D movie theater
- It features the function of sending text messages from the 5D movie theater, showing a total number of spectators per day



Technologies	Qt 4.7, DirectShow, COM
Programming languages	C++
Project management	MS Visual Studio
Project time	12 months