

Real-time Rendered showcase demo of C-THRU Panoptic Security Surveillance System

To start the showcase application, run c-thru_v3.0.exe on your PC. The demo will run noticeably more smoothly if your PC features hardware acceleration of real-time 3D graphics. The application automatically detects the presence or not of such 3D graphics acceleration hardware, so no user action is needed to assist with this detection.

Upon starting, you will first see a screen with a loader progress bar. When the loading nears completion, the application will go full-screen. An automated camera flight will be running automatically from the start. You will see a pre-set "guided tour" flight around an airport scene. This is not a pre-rendered pre-recorded movie. The graphics are being rendered in real time and you may stop the pre-set animation path at any time and interactively explore the virtual environment at will using the controls described below.

The scene's features include:

- two transparent buildings with staircases, one with the airport control tower on top
- people standing, sitting or walking around inside and outside the building and control tower
- two transparent airplanes with pilots and passengers sitting inside
- inside the passenger cabin of one airplane, a stewardess can be seen walking down an aisle
- at some distance, a third plane taxies, takes off and lands (looped animation)
- people are walking from the building towards the two planes to get on board
- in front of the airport buildings, cars are parked, one with the driver sitting inside
- airport perimeter security fence
- spaces in buildings and inside airplanes as well as outdoor spaces are color-coded by security-sensitivity: green / orange / red. Notice high-security sensitive spaces in red such as the control tower; the airplane cockpits and luggage holds.
- Moving as well as static individuals highlighted and color-coded for "need of attention" and/or function: flashing red for people with suspicious behavior; static blue for security agents; static green for airport personnel.

To stop the automatic appreciation flight, click on the words "Visualized by". You can now freely explore the scene by means of your keyboard keys - mainly the cursor keys + a few others - as well as your mouse.

All keyboard and mouse controls for free navigation and exploration of the real-time 3D scene are explained on a screen which you can access by clicking on the "PanOptiX" logo. Click on this controls explanations screen again to go back to the airport scene.

Note that you have complete freedom of movement in all 6 degrees of freedom. Note also that you can use the mouse-control simultaneously with the keyboard cursors controls, which makes for even more satisfying "flying around". If you'd like to move or fly around faster than the default movement speed, holding the shift key down will speed up whichever movement you are making. Note that you can also go under the "ground" and then look upwards, should you like to do so.

To make the automatic camera flight resume its' pre-set path, click on the E-spaces logo. To stop it again, click on the words "Visualized by" again, as before.

To see the scene with only the people visible and nothing else, move your mouse pointer to the top of the screen and press and hold your right mouse button. This will reveal a little menu. Choose Fill and inside the Fill-menu, choose "none. To bring back the rest of the scene, repeat this procedure but choose "texture" instead of "none".

To stop the C-Thru demo application, simple press the 'ESC' key on your keyboard.