

# Visualization technology and HMI development software for EUROCONTROL

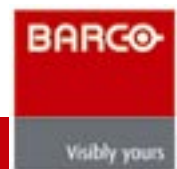


## ISIS Main Displays, PVS graphics controllers and ODS TOOLBOX used at the Maastricht Upper Area Control Center (NL)

EUROCONTROL's Maastricht Upper Area Control Center in the Netherlands is the second largest ATC center in Europe in terms of traffic volume. Last year, the center safely handled close to 1.4 million flights in the upper airspace of Belgium, the Netherlands, Luxembourg and the North-West of Germany.

To control the dense civil and military traffic over that part of Europe, the center is relying on Barco's ODS TOOLBOX HMI creation suite, 2Kx2K ISIS Main Displays and high-performance PVS graphics controllers.

EUROCONTROL opted for Barco's ISIS Main Displays because of their outstanding optical quality, low life cycle cost and functional compatibility with existing CRT-based main displays. The ODS TOOLBOX was chosen for its re-usability during the complete lifecycle of the program, from prototyping to development, installation and maintenance, which results in reduced life cycle cost.





## Fast and flexible HMI development and powerful runtime

The ODS ToolBox software provides EUROCONTROL with a powerful set of tools to develop operational display systems for highly dynamic applications. Display systems developed with ODS ToolBox allow to display an almost unlimited number of highly dynamic objects in near real-time. Furthermore, ODS ToolBox is able to merge a variety of external information such as flight plan or track data, radar sources, map data and weather data.

## Low life cycle cost Main Displays

The ISIS Main Displays used at the MUAC feature the latest LCD panel technology, presenting an ergonomic, lightweight solution for ATC controller workstation positions. Their high-bright screens present more detailed information, offer enhanced user comfort and counteract eye-fatigue. Moreover, ISIS displays have an extremely low life cycle cost: they do not need regular adjustments and replacing their backlight tray is less expensive and time-consuming than changing a traditional Cathode Ray Tube.

## High-performance video output

Barco's PVS graphics controllers have been especially designed for real-time, life-critical applications that require a substantial amount of pixmap, label and track manipulations. The PVS series offers state-of-the-art PCI graphics adapters designed for applications that need high-performance drawing with high-resolution video output.

### Maintenance and ongoing development

In addition to its advanced hardware and software components, Barco has also provided EUROCONTROL with maintenance and development services for the ERS Human Machine Interface Package, based on its ODS TOOLBOX software.

ERS is the standard platform required to support validation activities for the European Air Traffic Management (ATM) program and the European Commission's Single European Sky initiative. Developed by the EUROCONTROL Experimental Centre (EEC) in Brétigny-sur-Orge (FR), ERS is used in major European ATM projects, including the Maastricht Upper Area Control Centre (MUAC, the Netherlands), the Central European Air Traffic Services program (CEATS) and the Research Development and Simulation Center (CRDS, Hungary).

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