UNITED KINGDOM
Hanover Displays Ltd
Southerham House
Southerham Lane
Lewes BN8 6JN
United Kingdom

T +44 (0) 1273 477 528

GERMANY
Hanover Displays GmbH
Nöllenhammerweg 16
42349 Wuppertal
Deutschland

T +49 (0) 202 3177062-0

SPAIN
Hanover Displays S.L.
Avda. de las Américas 4-CB
28823 Coslada (Madrid)
España

T +34 91 499 79 28

ITALY
Hanover SRL,
Via Martiri dei Lager, 98/D
06128 Perugia Pg
Italy

T +39 327 8216 232

FRANCE
Hanover Sarl
1974 Moyenne Corniche des Pugets
06700 St Laurent du Var
France

T +33 (0) 4 97 02 17 02

USA
Hanover Displays Inc.
1601 Tonne Rd,
Elk Grove Village
Illinois 60007
United States of America

T +1 (773) 334 9934

AUSTRALIA
Hanover Displays Pty Ltd
2/21-25 Redland Dr
Mitcham VIC 3132
Australia

T +61 (03) 9872 6673

Please contact us for more information and details on our local representatives

SALES@HANOVERDISPLAYS.COM
HANOVERDISPLAYS.COM

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YOUR COMPLETE GUIDE FOR
RAIL SOLUTIONS

HANOVER DISPLAYS AT THE HEART OF GLOBAL TRANSPORTATION

Hanover Displays is a family owned, UK based company designing and manufacturing passenger information systems for the public transport industry since 1985. With subsidiary offices in France, Spain, Germany, Italy, Australia plus a second production facility in the US and representatives all over the world, Hanover Displays has satisfied customers in over 75 countries worldwide. The security afforded by more than 30 years' industry experience, financial independence and a continuous product development program is further assurance of the company's dependability.

INTRODUCING HANOVER RAIL SOLUTIONS DISPLAYS

It is important to be able to inform passengers on-board a vehicle of their current position along the route. Providing "This Stop" and "Next Stop" information helps to ensure that passengers know where they are at all times, so that they do not miss their stop and makes their journeys stress-free. Hanover supplies a number of different units to provide a comprehensive solution for on-board passengers:

- **AUDIO ANNOUNCEMENT SYSTEMS**
- **INTERIOR LED SIGNS**
- **MULTIMEDIA SCREENS**

These units are controlled by a powerful on-board computer, the HTC (Hanover Transport Computer). As well as helping operators to provide their passengers with accurate location information, these systems also offer the additional benefits of allowing operators to broadcast promotional announcements and advertising on a location-specific basis.

LED DESTINATION DISPLAYS

Our in-house production and stringent quality control means we manufacture to a high quality as well as complying to EN50155 certification. All displays benefit from excellent legibility in all environments and are fitted with automatic brightness adjustment which optimises visibility and reduces power consumption.

The sign system is programmed using Hanover's proprietary, Windows based software (HELEN) which is simple to use and allows messages to be displayed in multiple languages and a wide variety of presentation styles. The sign system is driven by a dedicated controller which also serves as the driver interface.

CASE STUDY: DE LIJN, BELGIUM

CHALLENGE

De Lijn tendered for a passenger information system for 88 new trams and 400 buses. The specific requirement of the supplier was to manufacture and supply complying to EN50155 specifications.

SOLUTION

Hanover's wide range of system possibilities catered for both bus and rail applications, offering De Lijn a comprehensive solution to their requirements. The passenger information systems for the trams have been fine tuned in close cooperation with the tram builder Bombardier to integrate especially the interior signs in the interior of the trams and meet the stringent rail standards.

MULTIMEDIA TFT SCREENS

CASE STUDY: STAS, FRANCE

CHALLENGE

STAS (St Etienne, France) purchased 16 new Urbos trams from CAF in 2015. Having already supplied all their passenger information systems for their bus network, STAS asked if Hanover could supply a rail-certified system for their new trams which also integrated with their back-office despatch system from INEO. Space restrictions within the trams meant that new sign sizes needed to be designed plus our existing communications protocols with INEO needed to work over an IP network.

SOLUTION

Hanover's in-house design and manufacturing capabilities enabled us to quickly design, develop and supply a completely new colour route number LED sign for the front and rear of the trams. Our software development team worked closely with INEO to ensure that the Hanover on-board system communicated over IP as required with the STAS back-office system. This work, as well as certifying all hardware to EN50155 standards, was achieved within the project time-scales so that there were no delays in supplying a complete, working solution. This required close co-operation with the end customer (STAS), the OEM (CAF) as well as the despatch management system provider (INEO).

Hanover's multimedia screens use high resolution TFT panels, which are fitted inside robust, vandal resistant cases, specially designed for the public transport environment. The screens can display still images, animated graphics and high definition video.

The sophistication of this technology allows the operator to present more information to passengers, such as complete vehicle routes, places of interest, connection points with other routes on the network, timetables, promotional information and advertising messages. Both VGA and Ethernet communications options available in a variety of sizes.

KEY BENEFITS:

- Screen sizes from 19" to 29", in both single-sided and double-sided formats

- 29" can be screen split if required for a variety of content, such as route information and advertisements.

- All are Ethernet enabled Smart displays making them easy to use and low maintenance

- GPS and WiFi enables for live route information and arrival times to the next stop

- Display of data from web feeds and integration with other on vehicle equipment e.g. CCTV