

Products & Services Catalogue

Leading Suppliers of Electronic Displays

**London, Manchester,
Leeds, Glasgow,
Las Vegas, New York,
Toronto, Abu Dhabi...
these great cities all have
something in common:
they run successful public
transport systems.**

Mobility, security and sustainability are the central basis for economic growth and prosperity in our globalized world. Ferrograph provide intelligent public transport products and specialist electronic solutions to meet these requirements.

Working in close collaboration with leading transport authorities, consultants, architects and designers, we provide a comprehensive range of electronic information displays with associated installation and maintenance services.

For further details on these products or to discuss our range of 'bespoke' design and manufacturing services please contact our customer support team.

We would be delighted to discuss your individual project requirements with you.

Our range of services includes:-

- **A comprehensive range of standard products**
- **Design engineering, CAD & Manufacturing services for bespoke products**
- **Prototyping development & In house manufacturing**
- **Installation, maintenance and support**

- **Bus**
- **Rail**
- **Airports**
- **Light Rail Metro**
- **Tram**
- **Bus Rapid Transit**
- **Cycling**
- **Pedestrian Wayfinding**

Electronic Displays, RTI Display Units, Interactive Displays, Touch Screens & Kiosks

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Digital Display Specialist

Ferrograph provides specialist intelligent display solutions for transportation and media applications across bus, underground and over-ground rail and air passenger networks.

Ferrograph's extensive range of quality LCD, LED, TFT and projection displays have been specifically designed and engineered to provide clear and accurate, up to the minute travel information to passengers.

Ferrograph are pioneers in the field of ruggedised public information displays and has established a reputation as the leading experts in bespoke electronic passenger display solutions.

Ferrograph have a strong transport customer base in rail, bus and air as well as local authorities and other private and public organisations. Long established supply relationships with software companies and systems integrators enables them to offer a complete solution – from design, manufacture through to installation and service support.

Ferrograph's strength is the ability and experience to package any chosen Display Technology into a working product solution for Public Transportation Applications

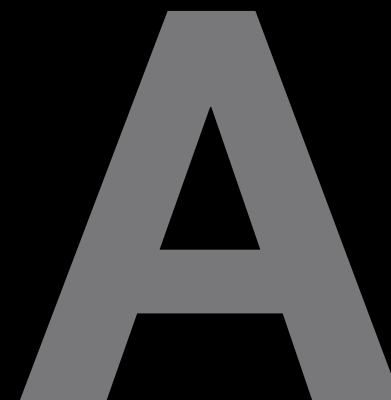


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Bus Shelter Displays



Bus Shelter Displays

Key Product Features

- LED and LCD display technology versions
- Optional Full Matrix 180 x 32 pixel format allowing a fully flexible display format.
- 3 Lines x 30 Characters standard
- 9 pixel high Characters as standard for DDA compliance
- Lightweight aluminium enclosure construction with IP65 ingress protection rating
- Vandal resistant polycarbonate front screen
- Environmental control including impact detection and diagnostic control

Product has been integrated by:

- ACIS (re-brand this product Tay), Trapeze ITS, JMW, Ineo Systrans, Connexions, Thales



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Countdown RTI Displays

Please contact us for further details of our electronic display range.



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Winnipeg Transit Displays

Winnipeg, Manitoba, Canada - design and supply of LED real time bus information displays and bus shelter and stop hardware.

Trueform and Ferrograph have designed a bespoke bus stop solution for Winnipeg, working closely with the client's chosen architect and system integrator. 2 sign types have been designed for this client.

Key Product Features

- Type A: 3 Lines x 36 Characters standard
- Type B: 10 Lines x 18 Characters standard
- 9 pixel high characters as standard for DDA compliance
- Cast Aluminium lightweight construction
- Integrated 47mm high clock
- Tough all-weather construction manufactured to IP65
- Vandal resistant polycarbonate front screen
- Environmental control including impact detection and diagnostic control
- Optional cold weather protection with integrated fans and heaters
- Ferrograph designed and manufactured heating and cooling system to enable operation between -55 °C and +50°C



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Toulouse Displays

Design and supply, of 145 LED full matrix bus and tram displays for Toulouse.

Scope of project:

- 96 Single sided Bus Displays – LED Full Matrix
- 42 Double sided Tram Displays – LED Full Matrix
- 7 Double sided Platform Indicator Displays

Key Product Features

- Fabricated lightweight aluminium enclosure with polyester powder coat finish
- Enclosure Ingress Protection (IP) rating of 65, making it fully capable of operating in an outdoor environment
- Impact resistance will be designed to IK7
- Additional lacquer coating to maximise protection from vandalism and aid removal of graffiti
- 9 pixel high characters as standard for DDA compliance
- Laminated toughened glass screen which will have an anti-glare coating and medium brown tint to provide a better viewing contrast
- Designed to interface with the existing mounting structures, through the use of Ineo's proprietary interface casting



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28in Ultra Wide Screen TFT Display

Key Product Features

- Latest generation TFT-LCD panels with typical brightness 1000 cd/m²
- 1920 x 357 ultra wide aspect ratio 16:3
- High brightness, sunlight readable energy efficient display
- Small form factor to enable installation within most shelters and to enable bus stop pole mounting
- Fabricated lightweight aluminium construction
- Heat exchanger cooling system to support high temperature extremes
- Rugged enclosure manufactured to IP65 ingress protection rating, impact rating IK7
- Remote Monitoring: Environmental control and diagnostic information
- Able to be mounted within shelter from top surface and to third party posts via optional adaptor bracket



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Bus Stop Displays

B

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Bus Stop Full Matrix Flag

Key Product Features

- Full Matrix flexible display format enabling up to 12 lines of 24 characters to be displayed
- Four versions available: 3 line, 6 line, 9 line and 12 line.
- 27mm capital character height as standard but can be used with a range of fonts and fully flexible display layout
- The IP65 rated enclosure provides protection against both the weather and vandalism
- Environmental control, including impact detection and diagnostic control
- Optional cold weather protection with integrated fans and heaters
- Retrofit to existing flag posts
- Rear face available for fixed text vinyl's
- Doubled sided versions available



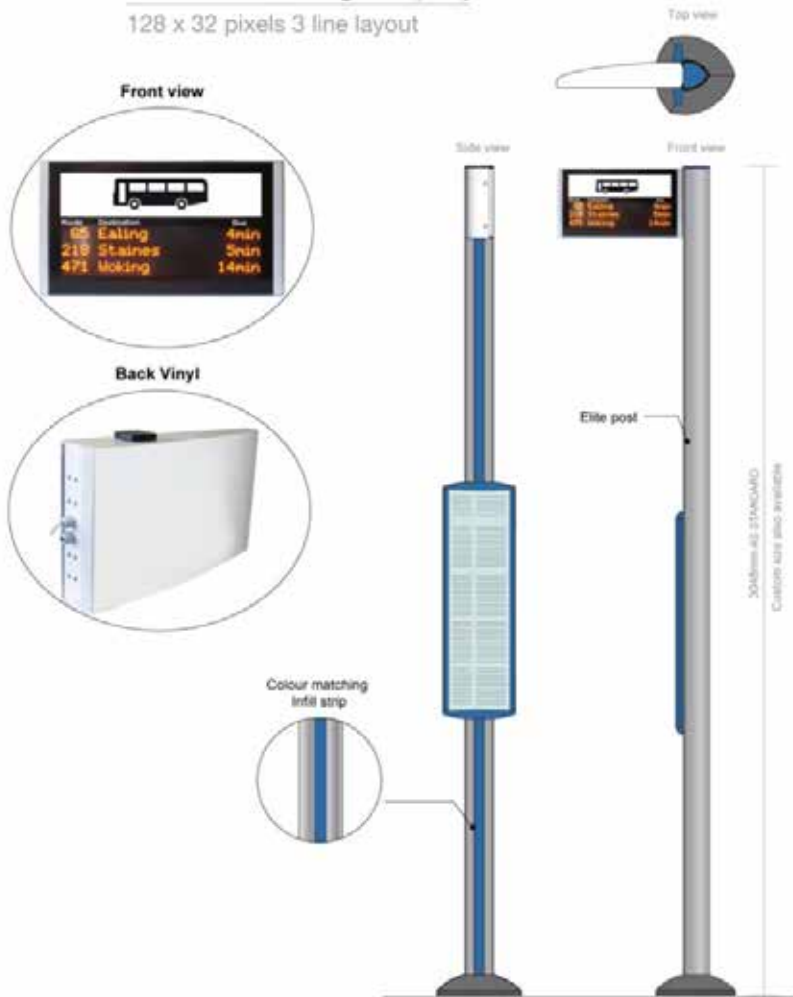
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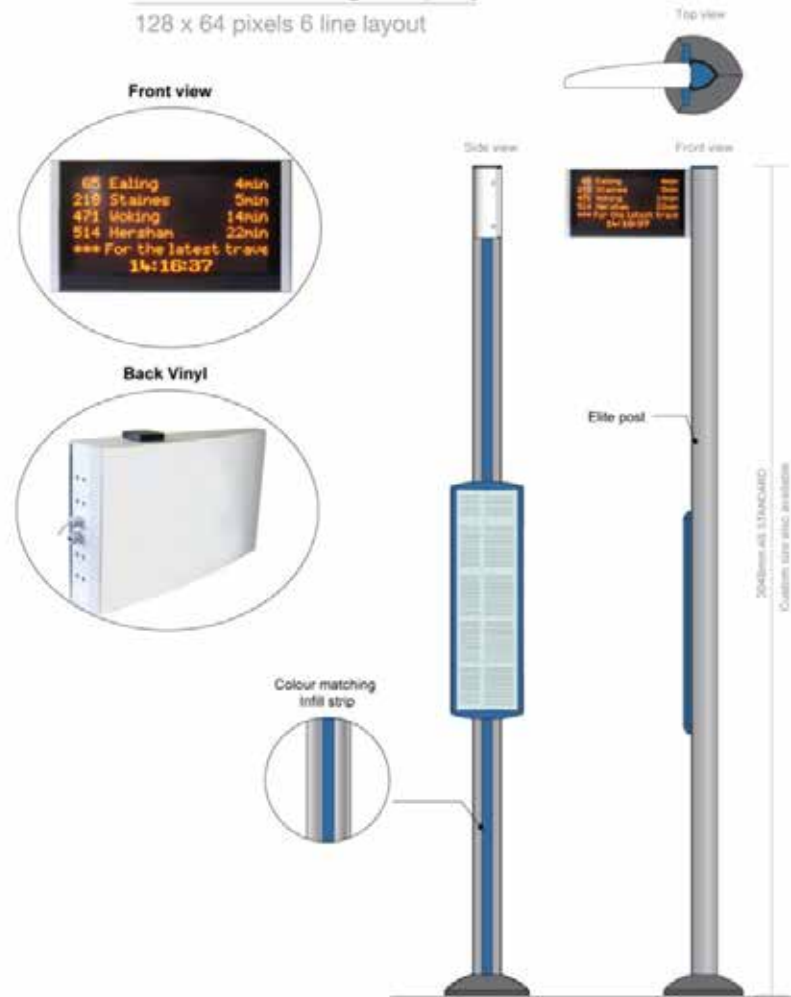
Full Matrix Flag Display

128 x 32 pixels 3 line layout



Full Matrix Flag Display

128 x 64 pixels 6 line layout



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Double Sided Full Matrix Flag

Key Product Features

- 3, 6 and 9 lines versions x 24 characters
- Amber ultra-bright LEDs for daylight readability
- Compact enclosure allows external bus stop stop pole mounting
- IP65 rated enclosure provides protection against both the weather and vandalism
- Environmental control, including impact detection and diagnostic control
- Optional cold weather protection with integrated fans and heaters
- Retrofit to existing flag posts is possible via bespoke mounting kit
- A full range of Trueform Elite posts, mountings and display cases are available



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Double Sided Full Matrix Flag - Optional Sun Hood

Key Product Features

- 3, 6 and 9 lines versions x 24 characters
- Amber ultra-bright LEDs for daylight readability
- Compact enclosure allows external bus stop pole mounting
- IP65 rated enclosure provides protection against both the weather and vandalism
- Environmental control, including impact detection and diagnostic control
- Optional cold weather protection with integrated fans and heaters
- Retrofit to existing flag posts is possible via bespoke mounting kit
- A full range of Trueform Elite posts, mountings and display cases are available



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Countdown LED Flag

Key Product Features

- 3, 6, 9 and 12 service options
- Single or double-sided
- Amber ultra-bright LEDs allow daylight viewing
- Compact stylish enclosure allows external bus stop pole mounting
- The IP65 rated enclosure provides protection against both the weather and vandalism
- Environmental control, including impact detection and diagnostic control
- Optional cold weather protection with integrated fans and heaters
- A full range of Trueform posts, mountings and display cases are available



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3 Service LED Countdown Flag Display

Key Product Features

- 3 service option
- Single or double-sided
- Amber ultra-bright LEDs allow daylight readability
- A compact, stylish enclosure allows external bus stop pole mounting
- The IP657 rated enclosure provides protection against both the weather and vandalism
- Environmental control, including impact detection and diagnostic control
- Optional cold weather protection with integrated fans and heaters
- A full range of Trueform Elite posts, mountings and display cases are available



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Info Totem Bus Stop

The stylish Info Totem RTI bus stop information system provides a high quality platform for the marketing and promotion of bus services, offers simplicity in design, optimum passenger information, alongside flexible installation and serviceability.

The robust system embodies the latest design thinking for attractive, long lasting on street performance whilst providing the best in electronic, real time or scheduled bus arrival and departure information alongside high quality static information display.

Key Product Features

- Fitting of RTI Bus Shelter Displays
- Built in Sun Shade for easy viewing in all Weather
- High Quality Timetable Display Case in a wide range of display sizes
- Robust, Long lasting all weather materials
- Sound Structural Engineering
- Built-In Electrical Switch gear Enclosure
- Available in a wide range of attractive finishes with colours and bespoke graphics to suit corporate house styles
- Service Marketing & Branding Platform
- A wide range of foundation fixing methods are available to suit all site conditions



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E-Ink Bus Stop Display

Please contact us for further details on our range of E-Ink bus stop displays, which are delivered in conjunction with our display partners.



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Centro Bus Stop Totem

Bespoke intelligent bus stop design installed throughout the City of Birmingham for Centro. Featuring latest innovation in electronic RTI passenger information display hardware, digital printed LED back illuminated wayfinding mapping and highly contemporary aesthetics.



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Bus Information Totem

Available in a range of sizes and configurations, these elegantly designed Bus Information Totems have been specifically designed for high profile display of bus information, showing the direction, next bus due and which bus stop to go to.

Key features include a 42" portrait, sunlight readable, high brightness TFT product with 3G communications.

Trueform's combined design, fabrication and engineering expertise with the electronic display engineering and cooling expertise of its sister company Ferrograph, made this highly complex yet elegant design a practical reality.



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Ealing Broadway Bus Interchange Digital Totem

Available in a range of sizes and configurations, these elegantly designed interchange units have been specifically designed for high profile display of Bus information.

Features of the totem include:-

- High quality architecturally detailed product design
- 2 of 42" TFT, anti-reflective (sunlight readable) screens
- Wifi and 3G
- 2 of rear illuminated mapping glass panels



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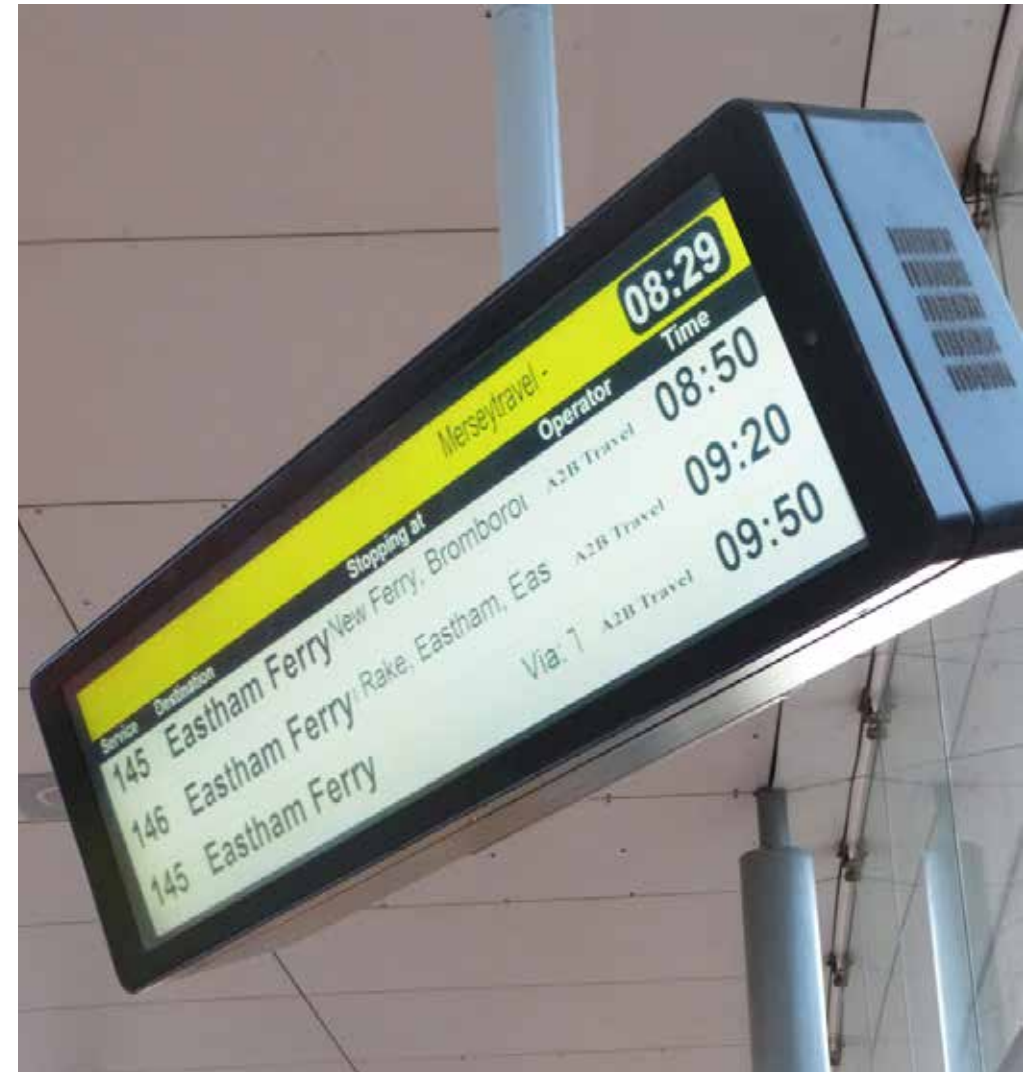
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38in Ultra Wide Screen TFT Display

Key Product Features

- Latest generation TFT-LCD panels with typical brightness 1000 cd/m²
- 1920 x 502 ultra wide aspect ratio 16:4.2
- High brightness, sunlight readable energy efficient display
- Small form factor to enable bus stop pole and ceiling mounting
- Fabricated lightweight aluminium construction
- Heat exchanger cooling system to support high temperature extremes
- Rugged enclosure manufactured to IP65 ingress protection rating, impact rating IK7
- Remote Monitoring: Environmental control and diagnostic information
- Able to be mounted within shelter from top surface and to third party posts via optional adaptor bracket



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IP65 Ruggedised 4 Line Full Matrix LED display

The Ferrograph range of Rugged LED displays have been specifically designed and engineered to provide clear and accurate, up to the minute travel information to passengers. Ferrograph has designed a specific family of products to provide on street real time passenger information at bus waiting shelters, interchanges and stops.

Key Product Features

Display Format: Full Matrix 192 x 56 pixel format allowing a fully flexible display format, 32 characters wide, typical

Display: Tough fabricated edge to edge enclosure with laminated chemically treated safety glass front screen, anti-glare / anti-reflective surface treatment rated to IP65

Climate: Harsh environment -40C to +50C

Remote Monitoring: Environmental control and diagnostic information

Orientation: Landscape



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IP65 Ruggedised 8 Line Full Matrix LED display

The Ferrograph range of Rugged LED displays have been specifically designed and engineered to provide clear and accurate, up to the minute travel information to passengers. Ferrograph has designed a specific family of products to provide on street real time passenger information at bus waiting shelters, interchanges and stops.

Key Product Features

Display Format: Full Matrix 192 x 112 pixel format allowing a fully flexible display format, 32 characters wide, typical

Display: Tough fabricated edge to edge enclosure with laminated chemically treated safety glass front screen, anti-glare / anti-reflective surface treatment rated to IP65

Climate: Harsh environment -40C to +50C

Remote Monitoring: Environmental control and diagnostic information

Orientation: Landscape



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Bus Interchange Displays

Bus Interchange Displays

LED Departure Board Displays are part of the Ferrograph range of Transport Interchange Displays. This product family is the ideal choice to display real time passenger information within any modern interchange environment.

Key Product Features

- 6 and 9 lines of text with 45 characters per line
- 30mm Character height with 9 pixel high characters allowing either partial or full descenders to be used
- Amber ultra-bright LEDs allow daylight viewing
- Extruded aluminium front frame with polycarbonate screen in keeping with the range of interchange displays
- The IP65 rated enclosure provides protection against both the weather and occasional vandalism
- A bespoke design service is available for all mounting and installation locations
- Environmental control including impact detection and diagnostic control



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Fuzion TFT Display Range – 32”, 46”, 55”

The Ferrograph range of Rugged LCD-TFT displays are suitable for use in outdoor public areas offering unparalleled visual clarity, superior contrast and high luminance, making it ideal for the display of general information, advertising and transportation applications where high quality real time information delivery has to be achieved in demanding ambient light conditions.

Key Product Features

TFT Display: Latest generation high brightness sunlight readable display panels Full HD, 1920 x 1080 resolution

Display Enclosure: Tough fabricated edge to edge enclosure with high impact protection safety glass screen, anti-glare / anti-reflective surface treatment for optimum viewability and rated to IP65 to protect against water and dust ingress

Temperature Control: Heating and cooling sub-system to support wide temperature extremes

Remote Monitoring: Centralised functional and environmental monitoring and diagnostic system

Content Management: Supports the Ferrograph content management system allowing digital content creation, management and playing

Orientation: Portrait or landscape



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Rail Displays



Next Train Indicator (NTI)

The 3 Line LED Next Train Indicator has been specifically designed to display real-time next train information to passengers on railway platforms.

- The perfect solution for railway platform applications.
- Ideal for Tramstop or LRT applications.

Key Product Features

- 9 dot high LED technology ensuring DDA compliance
- Automatic brightness adjustment
- IP66 rated enclosure
- Section 12 low smoke and fume version available for Underground applications
- Single sided or double sided versions available
- Optional LED clock



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Medium Format Next Train Indicator (MNTI)

The 3 Line LED MNTI has been specifically designed to display real-time next train information to passengers on railway platforms with an integrated clock.

- The perfect solution for railway platform applications.
- Ideal for Tramstop or LRT applications.

Key Product Features

- 9 dot high LED technology ensuring DDA compliance
- Automatic brightness adjustment
- IP66 rated enclosure
- Section 12 low smoke and fume version available for Underground applications
- Single sided or double sided versions available
- Optional LED clock



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Emergency Do Not Enter (EDNE) Display

Ferrograph's LED "Emergency Do Not Enter" (EDNE) display has been specifically designed as a warning display used to restrict access to rail and underground station entrances.

Key Product Features

- 24 x 128 LED Matrix
- DDA compliance
- Automatic brightness adjustment
- IP66 rated enclosure
- Section 12 low smoke and fume version available for Underground applications
- Single sided



Mounted under canopy ceiling, can also be fascia mounted



Suspended unit, cables mounted within tubular supports, pigeon wire attached

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Airport Displays



Airport Displays

Airport Displays

Ferrograph provide the air passenger industry with a range of electronic display solutions.

Products include interior and exterior passenger, Flight Information & Departure Screens (FIDS), digital advertising displays and wayfinding monoliths.



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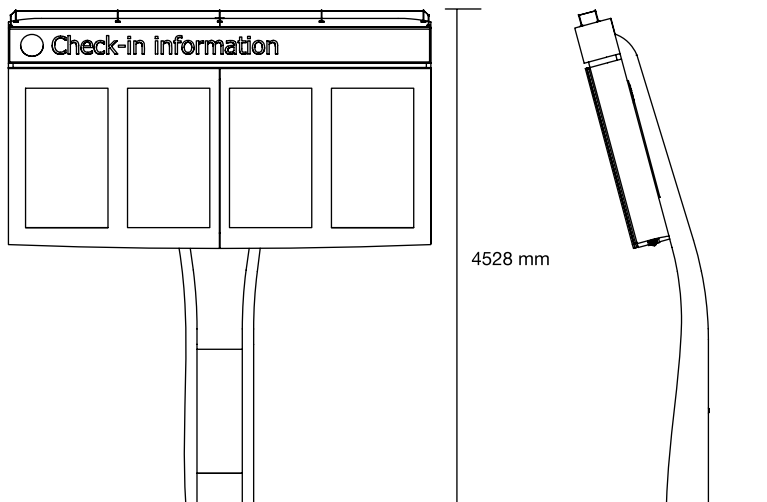
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Flight Information Departure Unit (FIDS)

Available in a range of sizes and configurations, these elegantly designed FID units have been specifically designed for high profile display of flight information, arrival and departures.

Utilising Trueform's combined design, fabrication and engineering expertise with the electronic display engineering and cooling expertise of its sister company Ferrograph, made this highly complex yet elegant design a practical reality.



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FIDS Type 2



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Airport Monoliths

Available in a range of sizes and configurations, these elegantly designed monolith units have been specifically designed for high profile display of flight information, arrival and departures and wayfinding map utilising Trueform's combined design, fabrication and engineering expertise with the electronic display engineering and cooling expertise of its sister company Ferrograph, made this highly complex yet elegant design a practical reality.



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Stansted FID with Seat Support



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TFT Displays



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Solar and Wind Powered LED Flag

The renewable energy LED Countdown Flag Display has been designed for locations where provision of power is an expensive and challenging problem

Designed specifically to display real time passenger information in outdoor public environments, typical applications include:

- On street locations where bus shelters or stands are unavailable
- Stand alone post mounting
- Suitable for out of town or rural locations
- No Mains power required

Key Product Features

- 3, 6 and 9 service options
- Single or double sided
- Amber ultra-bright LEDs allow daylight viewing
- Compact enclosure allows external bus stop pole mounting
- Rugged on demand push button to activate sign from power saving mode
- Display illumination is controlled via a brightness sensor which manages the optimisation of brightness and power consumption display
- The IP65 rated enclosure provides protection against both the weather and vandalism
- A full range of Trueform posts, mountings and display cases are available



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Rugged TFT Display

The **Ferrograph Rugged TFT Display** is a rugged display suitable for use in outdoor public areas such as ticket offices, bus interchanges and rail station concourses.

Designed specifically to display passenger information in transport interchange environments, typical applications include:

- Rail and Underground Stations
- Bus Stations
- Airports
- Any Outdoor or Public Environment Application
- Industrial Applications

Key Product Features

- Screen sizes available 15", 17", 19", 22", 26", 32", 42" & 57"
- Optional high brightness and sunlight readable TFT
- Optional optical coating of TFT panel available for outdoor environment
- A range of TFT panel resolutions including VGA, SVGA, XGA and SXGA available
- All aluminium/stainless steel weatherproof construction with IP65 ingress protection rating
- Various levels of integrated PC available, depending on user application
- Communication via LAN, RS232 or RS485 Updates via USB key without the need to open the display



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TFT Totems

The TFT Totem can be integrated into the Trueform Elite range of shelters or retro fitted to existing shelters. Specifically designed for use in the urban environment the display can provide both static and real-time information to the travelling public

Designed specifically to display passenger information in transport interchange environments, typical applications include:

- Transport interchanges
- Bus Stations
- Tramstop or LRT applications

Key Product Features

- Landscape and portrait versions available
- Latest generation TFT panel with a minimum lifetime of 50,000 hours to half brightness
- Digital 1 bit/Pixel accurate mapping leads to exceptionally clear display with no analogue signal path
- All aluminium weatherproof construction
- Ingress protected to IP65
- Integrated PC with Ferrograph data driver software
- Communication via LAN, RS232 or RS485. Updates via USB key without the need to open the display
- Operating range 0°C to +40°C. Optional environmental control including impact detection and diagnostic control is available



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Electronic Service Update Boards (ESUB)

Ferrograph ESUB displays are specifically designed to display service quality information in Underground and Rail stations.

Several versions are available with screen sizes in the range of 32" / 40" / 46" and 57".

Several mounting options are available including freestanding pedestal, wall mount, single post and dual post.



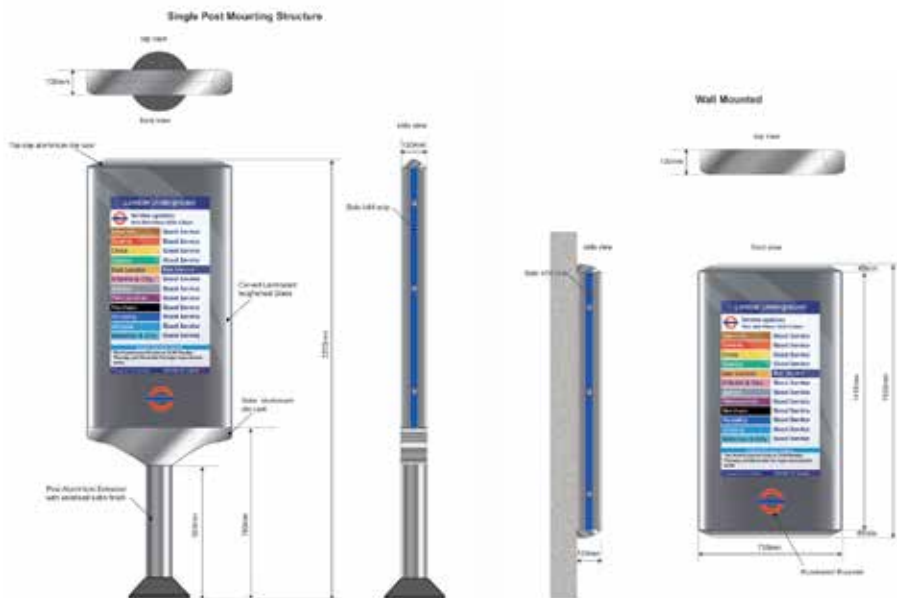
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Electronic Service Update Boards ESUB - Type A

Manufactured by Trueform Ferrograph



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Electronic Service Update Boards ESUB - Type B - Freestanding

Manufactured by Trueform Ferrograph



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Electronic Service Update Boards ESUB - Type B - Wall Mounted

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Electronic Service Update Boards ESUB - Type C

Manufactured by Trueform Ferrograph



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Digital Promotional Display Unit

Freestanding digital display screen with built-in pc and graphics driver, used for promotion and customer information.



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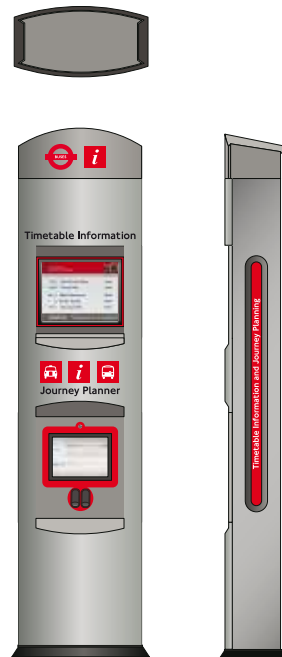
Interactive Products

Interactive Touch Screens & Information Kiosks

Interactive Touch Screens & Information Kiosks

Trueform supply a range of intelligent interactive touch screens and information kiosks for both interior and exterior applications.

The rugged displays provide up to the minute travel and service information to passengers.



→ Looking for more detailed information?

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Interactive Displays - Kiosk



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Interactive Displays - Kiosks

Ferrograph rugged Interactive Kiosk provides real-time digital information to the travelling public in outdoor and unsecured areas .

Next bus and train service information is combined with a local Point of Interest and Journey Planning services. Ideal for use in:

- Transport interchanges
- Bus stations and high use stops
- Railway platform or concourse applications
- Tramstop or LRT applications

Key Product Features

- 19" TFT Summary screen at top front face
- 17" TFT at user height, front face
- Touch-screen using Projected Capacitive Technology (PCT)
- Secure Web based browser with on-line Journey Planning and approved website access
- Tough IP65 stainless steel enclosure with laminated safety glass front screen, anti-scratch / anti-reflective surface treatment
- LAN communication as standard
- Optional communications: Wi-Fi, 3G & ADSL
- Optional ability to communicate to other display devices at same location via Wi-Fi, 3G



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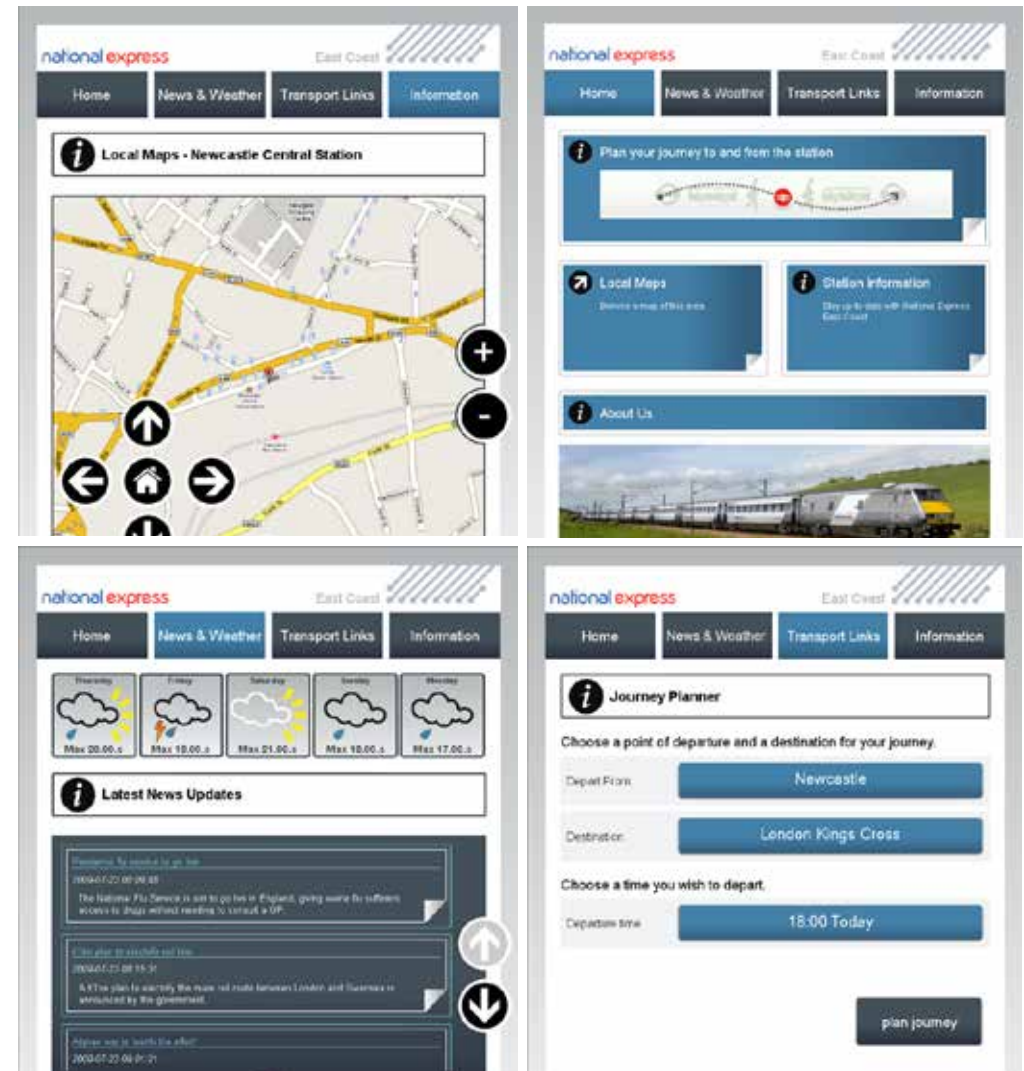
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Interactive Displays - Kiosks

Touch screen interface

- Bespoke Design of Touch screen Graphical User Interface
- Management of RSS feeds – e.g. BBC / Sky News and Weather
- Management of links to Journey Plan, National Rail Enquiries
- Development of Customer specific Branding
- Development of Content Templates for user population
- Paper printing capability
- Distribution of Content to multiple displays and locations - Wi-Fi technology



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Electronic Timetables & Touch Screens

Please contact us for further details of our range of interactive bus stop displays.



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E-Ink Bus Stop Display

Please contact us for further details on our range of E-Ink bus stop displays, which are delivered in conjunction with our display partners.



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Interactive Displays - Smart Travel Touch Screen

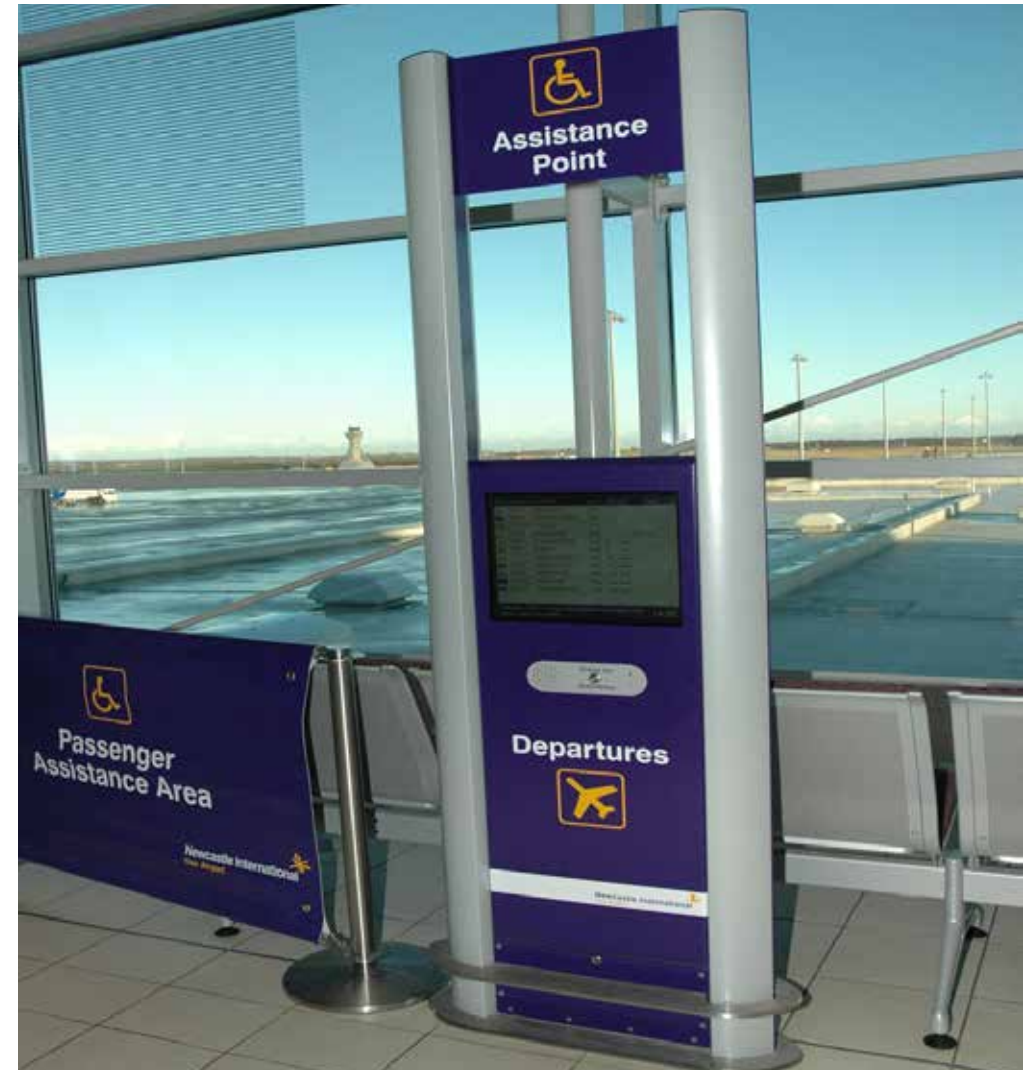
Ferrograph's TFT Touch screen Information Kiosk display offers a rugged space saving solution due to its compact design.

Designed specifically to display bus or train service information, typical applications include:

- Transport interchanges
- Bus stations and high use stops
- Railway platform or concourse applications
- Tramstop or LRT applications

Key Product Features

- Fully Rugged Zintec Steel freestanding enclosure
- Low-level installation to allow Optimum viewing angle for PRM passengers
- IP54 sealing rating
- Laminated safety glass
- 17" Landscape LCD
- Integrated PC (optional)
- Anti reflective coating (optional)
- Ideal for Train Information or Retail Advertising applications
- Stainless steel protection bar (optional)



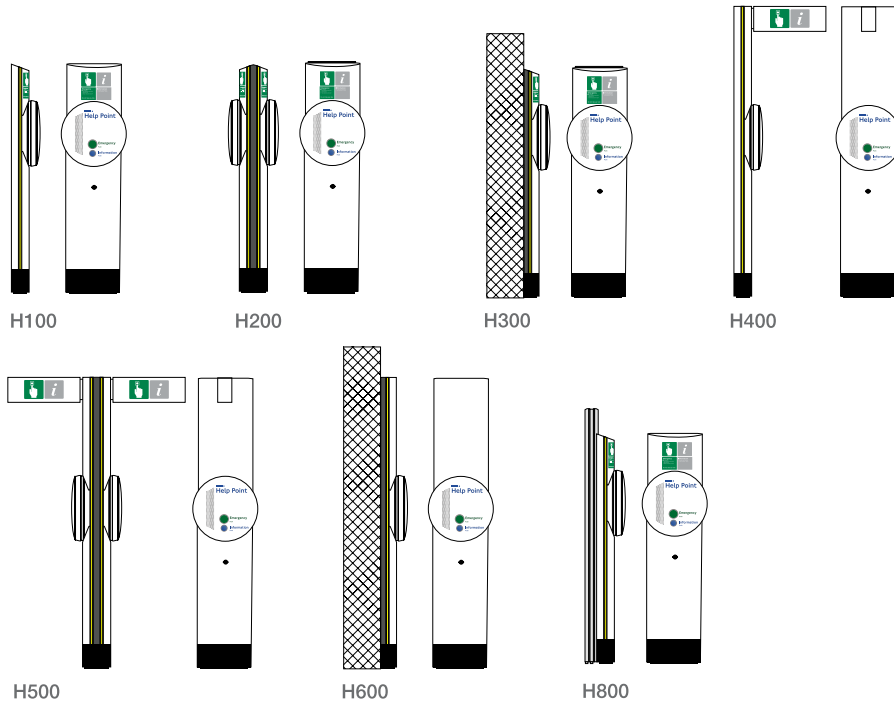
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MK 2 Help Points - Type A

Graphic Layout A



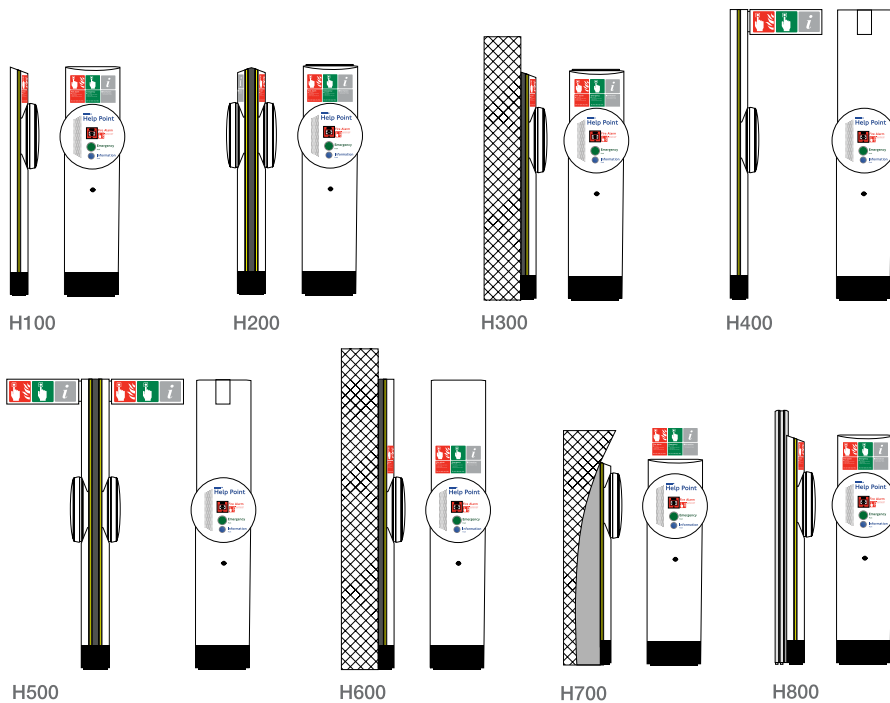
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MK 2 Help Points - Type B

Graphic Layout B



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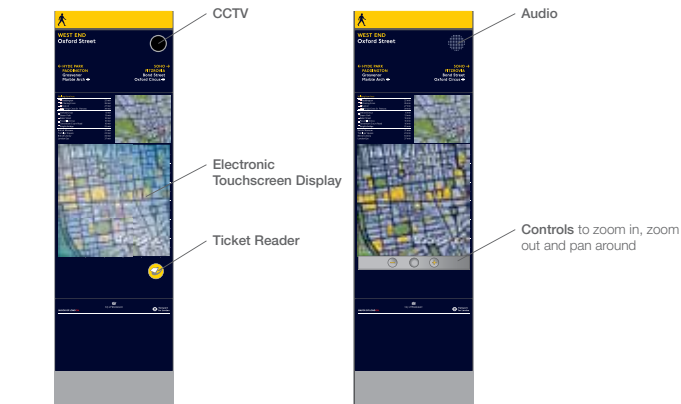
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Interactive Wayfinding

Trueform provide a wide range of interactive and non-interactive digital display wayfinding products in a variety of designs to suit individual customer requirements.

Successfully installed in many locations, Trueform provide the entire product - an end to end solution. Products and services include external kiosk structure, associated graphics, signage and branding, all internal electronic hardware, daylight readable displays, internal PC's and full impact resistant display screens. All products are fully ingress protected from the elements, utilise thermal control engineering dynamics and are fully tested and approved for external on street use.

Trueform also provide a full content management design and/or take digital data feeds from third party supplied and systems integrators.



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Bus Information Totem

Available in a range of sizes and configurations, these elegantly designed Bus Information Totems have been specifically designed for high profile display of bus information, showing the direction, next bus due and which bus stop to go to.

Key features include a 42" portrait, sunlight readable, high brightness TFT product with 3G communications.

Trueform's combined design, fabrication and engineering expertise with the electronic display engineering and cooling expertise of its sister company Ferrograph, made this highly complex yet elegant design a practical reality.



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Fuzion Monolith

Available as a single or double sided mounting solution for the Fuzion ruggedised 32in, 46in and 55in TFT display range.

- Robust monolith design for outdoor applications
- Polyester powder coated to customer specified RAL number
- Optional vinyl graphics



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Freestanding Totem

- Free standing single or double sided LED display
- Full matrix LED layout providing bus service information and RTI
- Optional portrait IP65 Ruggedised 32in Wide Screen TFT display
- Rugged powder coated steel enclosure provides protection against both the weather and occasional vandalism
- Maintenance access via security locks
- Environmental control including impact detection and diagnostic control is included
- Fixed text and graphics vinyls to customer requirements



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Interactive 42in TFT Free Standing Wayfinding Totem

Key Product Features

- Freestanding Totem structure from Legible product family
- High brightness 42" TFT-LCD panel with transfective properties
- Capacitive touch screen interface
- Laminated, thermally tempered, sacrificial safety glass screen with anti-reflective and anti-scratch coatings
- Stainless steel and vitreous enamel outer totem panels
- Screen printed 8mm thick laminated safety glass map panels
- IP65 ingress protection internal electrical enclosures
- Integrated PC for LAN connection and processing of digital content



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Interactive Displays - Kiosks

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Interactive Displays - Kiosk



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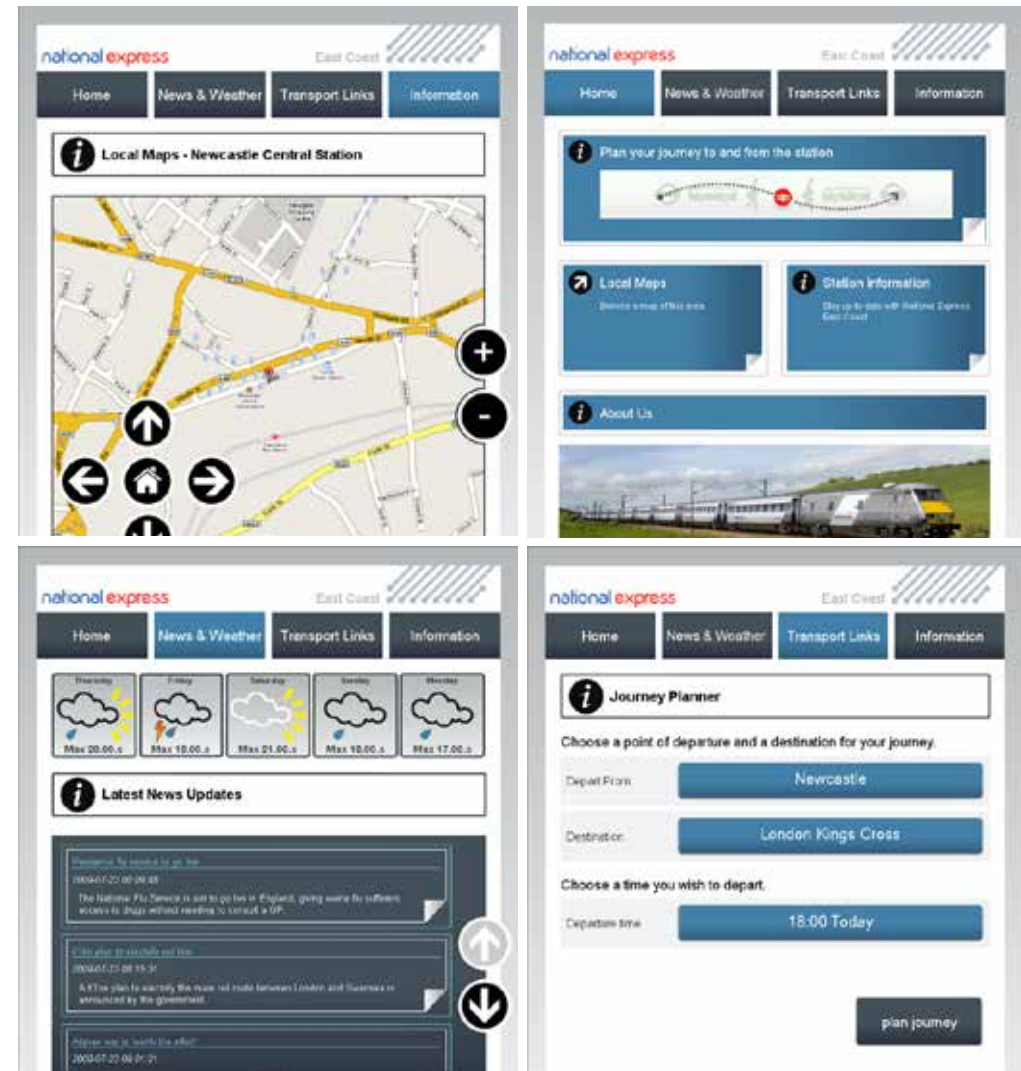
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46in TFT Interactive Touch Screen Totem

Key Product Features

- 46" high brightness TFT panel providing a high visibility display
- Capacitive film touch screen to allow customer interaction
- Optional Integrated IP65 rated camera providing a webcam style interaction
- Integrated PC to host content presentation and system maintenance
- Heat exchanger cooling system to support high temperature extreme
- Chemically toughened, safety glass screen
- Ruggedised IP65 ingress protected display enclosure
- First stage heater control electronics to support low temperature extreme
- Automatic brightness control
- Robust totem design for outdoor applications



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