



YOUR COMPLETE SOLUTION FOR  
**DESTINATION DISPLAYS**



## 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 G4 DESTINATION DISPLAYS

Hanover's new range of LED displays are fully surface mount. With the same customer focus, Hanover's new G4 range is fully backwards compatible with existing products. We continue to offer an extensive range of sign sizes and colour options to suit different vehicle models and provide customer choice.















# NEW G4 DESTINATION DISPLAY



Slimmer and lighter than our previous range of LED signs, Hanover's G4 destination displays again set the global standard by offering an efficient, reliable and cost effective solution.

Mindful of the need to reduce fuel consumption and CO<sub>2</sub> emissions, G4 combines the very latest power efficient SMD technology with our patented power saving LORA software.

## KEY BENEFITS:

-  Backwards compatible with previous products and programming software
-  Latest-generation surface-mount LED and electronic components
-  Lower power consumption will help operators reduce fuel consumption, CO<sub>2</sub> emissions and operating costs
-  Patented power-saving LORA software
-  Improved design with slimmer casework
-  Lightweight casing based on folded single-piece construction
-  Wide viewing angle for optimum legibility
-  Various interfaces available inc. Ethernet, serial (RS485 & RS232) and IBIS
-  Designed and certified to R10 & R118 E Mark standards
-  Easy to install and low maintenance
-  Field-proven design and construction
-  Reliability backed up by extended warranty
-  Global technical support
-  Quick delivery and order fulfilment

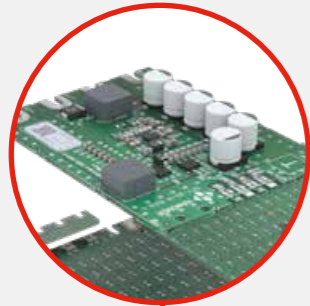




# G4 DESTINATION DISPLAY PRODUCT SPECIFICATION

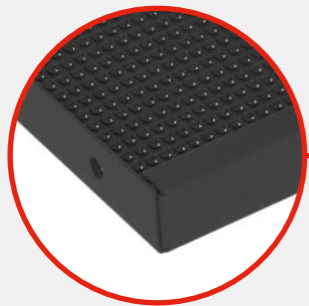
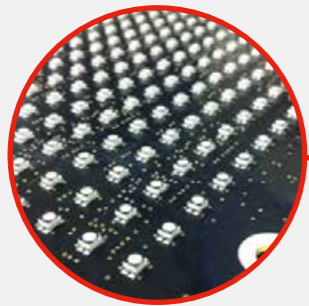
## POWER SUPPLY

Hanover G4 LED displays use our most efficient and lowest profile power supplies to date.



## SURFACE MOUNT LEDs

G4 displays use the very latest generation of Surface Mount LEDs, providing the best efficiency available and allowing for a slimmer case design.

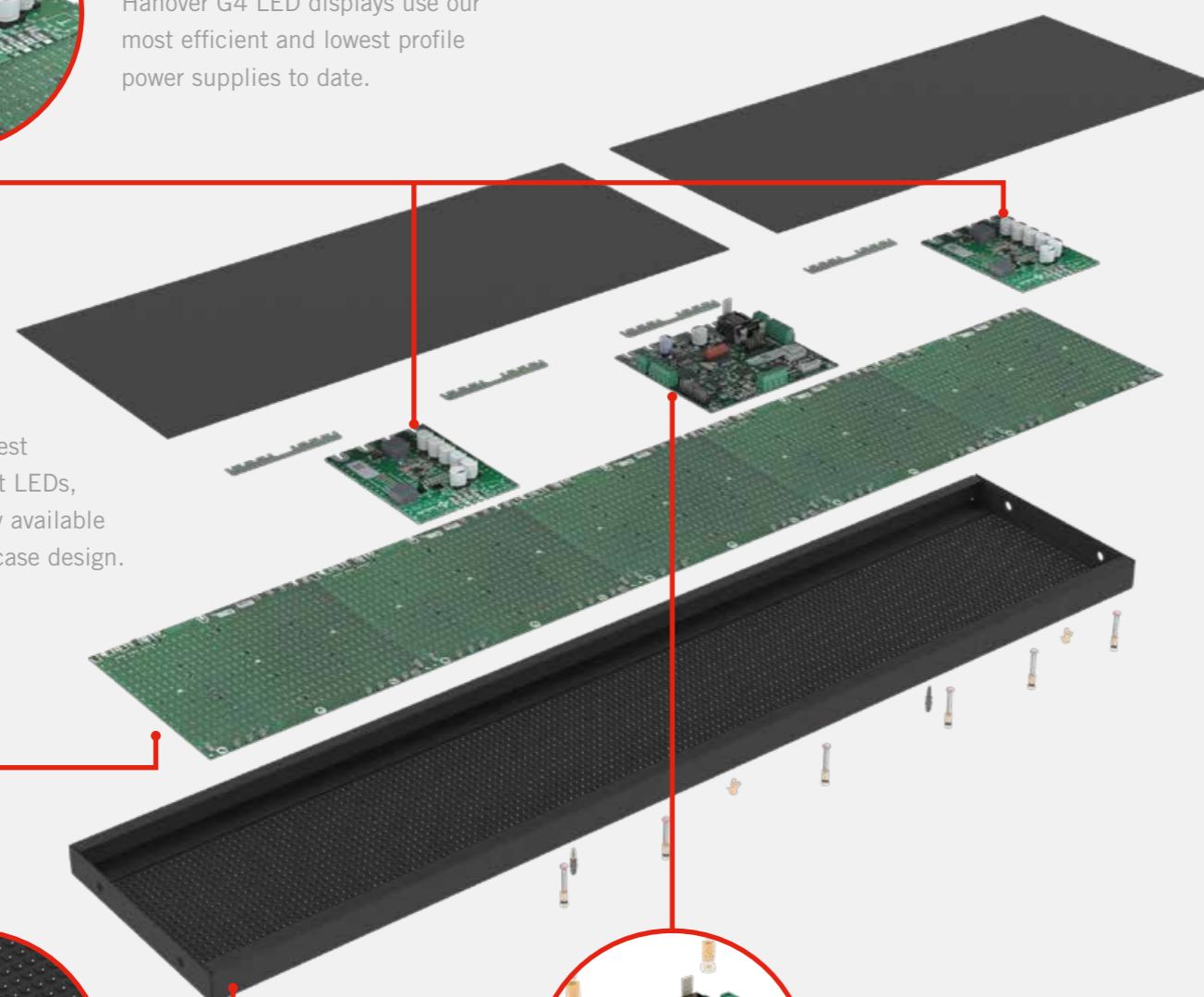


## ULTRA THIN DESIGN

Our new ultra thin, lightweight design enables easier installation and supports savings on fuel consumption.

## PROCESSOR

Our G4 display processor supports all previous generation display features and now includes IP connectivity as an option.



# HANOVER SYSTEM CONTROLLERS

Offering an independent means of controlling our world-class destination displays, Hanover destination display controllers can act either as a primary driver interface in manual, stand-alone applications, or as an important secondary interface in integrated systems.



## DG3 CONTROLLER

- Simple 4-button keypad
- High resolution, full graphical OLED display
- 8Mb memory and easy USB loading

## EG3 CONTROLLER

- Incorporates full alphanumeric keypad
- Illuminated buttons for selectable options
- Standard DIN radio mount installation



# POWERED BY 'HELEN' PROGRAMMING SOFTWARE

Our user-friendly, HELEN software has been widely appreciated by our customers for over 25 years. Technical support is available to assist if required with a full suite of options.





## GREENER SOLUTIONS FOR A BETTER TOMORROW

We put environmental sustainability at the heart of everything we do, from the way we design our products to how we produce them. It is also about helping our customers improve their own environmental performance. We strive to provide our customers with solutions that help them reduce emissions, energy consumption and waste.

### KEY BENEFITS:



Lightweight reducing power consumption will help operators reduce fuel consumption, CO<sub>2</sub> emissions and operating costs



Reduces environmental impact throughout manufacturing



Manufactured to ISO14001 standard



Hanover are committed to recycling over 75% of our waste each year



## LORA SOFTWARE

Hanover LED displays include our own patented software, LORA (Light Output Regulation Algorithm). The LORA software counts up the number of LEDs lit in any displayed message.

When a specific percentage of the available LEDs is reached or exceeded by lit LEDs, the software automatically reduces the current through the LEDs. This saves energy and reduces unwanted glare, ensuring all our displays are power efficient and highly legible in all operating conditions.

### KEY BENEFITS:



Reduces power consumption without affecting legibility



Reduces the weight of the sign by avoiding the need for bulky power supply assemblies



Reduces unwanted glare



# PRODUCT INFORMATION

PRODUCT CODE	DISPLAY SIZE HXV		VIEWING AREA (MM)		CASE DIMENSION (MM)			●W ●A ●FC ●RN ONLY
	HORIZONTAL	VERTICAL	LENGTH	HEIGHT	LENGTH	HEIGHT	DEPTH	LED COLOUR
G4.001	192	19	1953	249	1974	352	33	●W ●A ●FC ●RN ONLY
G4.002	160	17	1626	222	1646	325	33	●W ●A ●FC ●RN ONLY
G4.003	192	17	1953	222	1974	325	33	●W ●A ●FC ●RN ONLY
G4.004	128	15	1236	152	1286	210	33	●W ●A ●FC ●RN ONLY
G4.005	160	19	1626	249	1646	352	33	●W ●A ●FC ●RN ONLY
G4.006	144	19	1463	249	1520	335	33	●W ●A ●FC ●RN ONLY
G4.008	128	17	1300	222	1350	269	33	●W ●A ●FC ●RN ONLY
G4.009	128	32	1300	313	1480	421	33	●W ●A ●FC ●RN ONLY
G4.010	96	8	926	81	946	185	33	●W ●A ●FC ●RN ONLY
G4.012	96	15	926	152	976	210	33	●W ●A ●FC ●RN ONLY
G4.016	160	24	1626	292	1680	350	33	●W ●A ●FC ●RN ONLY
G4.018	160	24	1117	210	1183	260	33	●W ●A ●FC ●RN ONLY
G4.020	32	17	321	222	340	325	33	●W ●A ●FC ●RN ONLY
G4.021	32	15	305	152	355	210	33	●W ●A ●FC ●RN ONLY
G4.022	32	17	321	222	400	269	33	●W ●A ●FC ●RN ONLY

PRODUCT CODE	DISPLAY SIZE HXV		VIEWING AREA (MM)		CASE DIMENSION (MM)			●W ●A ●FC ●RN ONLY
	HORIZONTAL	VERTICAL	LENGTH	HEIGHT	LENGTH	HEIGHT	DEPTH	LED COLOUR
G4.024	48	8	460	81	515	152	33	●W ●A ●FC ●RN ONLY
G4.030	64	15	616	152	665	210	33	●W ●A ●FC ●RN ONLY
G4.033	128	17	1122	169	1180	260	33	●W ●A ●FC ●RN ONLY
G4.034	32	17	277	169	350	260	33	●W ●A ●FC ●RN ONLY
G4.036	96	17	840	169	898	260	33	●W ●A ●FC ●RN ONLY
G4.037	160	19	1117	166	1183	246	33	●W ●A ●FC ●RN ONLY
G4.042	40	24	277	210	340	270	33	●W ●A ●FC ●RN ONLY
G4.044	96	8	926	81	980	152	33	●W ●A ●FC ●RN ONLY
G4.075	96	17	973	222	1020	269	33	●W ●A ●FC ●RN ONLY
G4.102	200	24	1934	239	1960	325	33	●W ●A ●FC ●RN ONLY
G4.146	112	12	1114	120	1150	165	33	●W ●A ●FC ●RN ONLY
G4.148	84	12	834	120	870	165	33	●W ●A ●FC ●RN ONLY
G4.150	32	19	326	256	370	308	33	●W ●A ●FC ●RN ONLY
G4.151	160	19	1627	253	1646	352	33	●W ●A ●FC ●RN ONLY
G4.152	160	19	1117	160	1183	246	33	●W ●A ●FC ●RN ONLY

KEY ●W ●A ●FC ●RN ONLY : Full Colour | ●RN ONLY : Route Number





**UNITED KINGDOM**

Hanover Displays Ltd  
 Southerham House  
 Southerham Lane  
 Lewes BN8 6JN  
 United Kingdom  
 T +44 (0) 1273 477 528



**FRANCE**

Hanover Sarl  
 1974 Moyenne Corniche des Pugets  
 06700 St Laurent du Var  
 France  
 T +33 (0) 4 97 02 17 02



**GERMANY**

Hanover Displays GmbH  
 Nöllenhamerweg 16  
 42349 Wuppertal  
 Deutschland  
 T +49 (0) 202 3177062-0



**USA**

Hanover Displays Inc.  
 1601 Tonne Rd,  
 Elk Grove Village  
 Illinois 60007  
 United States of America  
 T +1 (773) 334 9934



**SPAIN**

Hanover Displays S.L.  
 Avda. de las Américas 4-CB  
 28823 Coslada (Madrid)  
 España  
 T +34 91 499 79 28



**AUSTRALIA**

Hanover Displays Pty Ltd  
 2/21-25 Redland Dr  
 Mitcham VIC 3132  
 Australia  
 T +61 (03) 9872 6673



**ITALY**

Hanover SRL,  
 Via Martiri dei Lager, 98/D  
 06128 Perugia Pg  
 Italy  
 T +39 327 8216 232



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

**SALES@HANOVERDISPLAYS.COM**  
**HANOVERDISPLAYS.COM**

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