



B&G

H 3000

Uncompromising performance...

H3000



Welcome to the next generation...

B&G systems have been at the leading edge of advanced marine electronics for over 50 years. We pride ourselves in providing nothing but the highest standard of products and service. The constant challenge to develop new technological solutions has culminated in a wealth of experience and knowledge, enabling B&G to harness technical developments and provide proven solutions for every sailor's need.

Designed to appeal to both the serious cruising and racing owner, H3000 is an evolution of a successful formula. Both Hydra and Hercules have proven themselves over many years to be the best systems available, used by performance cruise and race boats of all sizes. Every single element of these systems have been studied by B&G's unique R&D, Sales and Technical Support teams resulting in the next generation of B&G systems.



... Welcome to H3000

“ We chose B&G because they have the right product and the best support.”

- Russell Coutts



Introducing the **New** B&G range

Technological improvements experienced with the new H3000 system are striking, with particular advances in display technology, ease of use, ease of installation and durability. H3000 adds new products and new functionality to the B&G range whilst retaining compatibility with existing products already familiar to B&G users.

H3000 consists of race proven technology and brand new elements, which redefine electronic excellence. The focus has been on developing a range that is significantly more advanced whilst enhancing ease of use and installation.

H3000 Features and Benefits

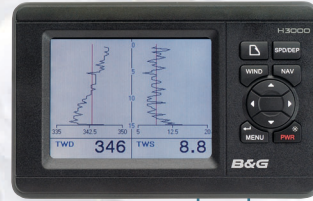
- H3000 is the first instrument and autopilot system to utilise bonded display technology with index-matched materials for maximum display clarity. This new technology also eliminates any chance of condensation.

- High-resolution graphical screens allow new ways of visualising sailing data.
- B&G AutoCal automated calibration routines make complex calibration procedures quick and easy.
- Highest quality materials are used throughout to create the most durable and reliable systems whilst keeping weight to a minimum.
- The system features a straightforward upgrade path via Multi-Level software and in-situ FLASH upgradeable units.
- All processor platform levels are now integrated into one box which allows space saving and easier installation.
- The Simnet databus allows displays to be 'daisy chained' eliminating long cable runs and junction boxes.

H3000 FFD



H3000 GFD



H 3000 GFD

The Graphical Display (GFD) takes over from the venerable Full Function Display (FFD) as the main display in the system. The high-resolution graphical display allows the use of graphical data representation in both colour and monochrome versions.

H3000 GPD



H3000 CPU



H 3000 GPD

The Graphical Pilot Display (GPD) succeeds the H2000 Pilot Display and adds the graphical abilities providing clear data.

ACP Pilot



Gyro Stabilised
Compass



H 3000 FFD

The Full Function Display (FFD) uses the proven display technology from the Hydra and Hercules 2000 units with some minor enhancements to the display to increase contrast and viewing angle.

Speed and Depth Sensors



Masthead Unit

Analogues



30/30s



RemoteVision



H 3000 ANALOGUES

Available to repeat most common functions the Analogue Displays retain the classic appearance for which B&G Analogue Displays are famous whilst improving the accuracy and durability of the product.

H 3000 30/30

Building on the classic 20/20 mast display, the NEW 30/30 gives bigger yachts the display they need. Intended for use as mast displays on both cruise and racing yachts in the 50-90' range.

H 3000 CPU

The H3000 CPU is the core of the system, taking the majority of sensor inputs and using a dedicated processor to rapidly calculate and calibrate further functions for distribution to display units and external devices. The unit is function upgradeable to allow the client to purchase upgrades.

Graphical Function Display (GFD)

The high-resolution graphical display allows the use of both graphical data representation and a very intuitive user interface. Both colour and monochrome versions are available - monochrome versions are intended for on-deck use and viewing from distance, the colour version is designed to allow additional clarity in short-range applications such as nav stations, cabins, pedestal mounts etc.



"Bonded display technology for unbeatable clarity in all conditions".

"New screen technology guarantees no misting".

"Exceptionally high quality materials for durability and weight saving".

"High-resolution graphical display allows new ways of visualising sailing data".

Graphical Pilot Display (GPD)

The H3000 Graphical Pilot Display succeeds the H2000 Pilot Display and adds the graphical abilities and construction of the GFD to Pilot control.



Full Function Display (FFD)

The H3000 Full Function Display uses the proven display technology from the H2000 units with some minor enhancements to the display. The FFD is particularly recommended for deck displays on pure race boats where the simple clarity of a dual line display and rapid access to key data is crucial to success.



20/20 Display

The H3000 20/20 Display is the race-proven unit from the H2000 range. The bezel has been updated to match the rest of the H3000 range.

30/30 Display

Building on the classic 20/20 Mast Display the 30/30 gives bigger yachts the display they need. Intended for use as mast displays on both cruise and racing yachts in the 50-90' range. The 30/30 uses bonded display technology for unparalleled clarity.

40/40 Display

The H3000 40/40 display is retained for Superyacht use where distances from user to display are large.



Special features:

- Maximum visibility in all conditions
- High contrast inverse LCD technology
- Widest viewing angle
- Choice of displays to suit the application

Analogue Displays

Available to repeat most common functions the H3000 Analogues retain the classic appearance for which B&G Analogue Displays are famous whilst improving accuracy and durability. Analogues utilise the simple and reliable installation of the Simnet databus, further improving the ease of installation of the H3000 system as a whole.



True Wind Speed



Boat Speed



Depth



Magnified AWA



Apparent Wind Speed



Apparent Wind Angle

Analogue product list:

- Boat Speed
- Depth
- Heading
- True Wind Speed (TWS)
- True Wind Angle (TWA)
- Apparent Wind Speed (AWS)
- Apparent Wind Angle (AWA)
- Magnified AWA
- Off Course
- Rudder

Central Processor Unit (CPU)

The H3000 CPU is the core of the system, taking the majority of sensor inputs and using a dedicated processor to rapidly calculate and calibrate further functions for distribution to display units and external devices.

- A new enclosure enhances ease of installation with its plugged connections whilst the connectors are firmly retained by locking screws to ensure reliability in all conditions.
- The CPU software is upgradeable to allow the client to purchase additional functionality at any time.
- Main Processor and Performance Processor functions are now available in one unit making it easier to install and simpler to service and upgrade.
- The addition of a USB interface allows connection of a PC for either NMEA communications or the optional H-Link™* communication protocol used by software packages such as Deckman.

* H-Link™ is an advanced B&G protocol for communication with external PC applications.



CPU processing levels

Hydra

- Update rates up to 4Hz
- AutoCal calibration routines
- USB port for NMEA interfacing with PCs
- NMEA 0183 input and output

Hercules (additional functions)

- Update rates up to 6Hz
- Wind data is corrected for Heel Angle
- Advanced True Wind Speed Calibration
- Dynamic Damping
- Secondary Pulse input for second boat speed sensor
- Boat speed Heel/Linearity correction

Hercules Performance (additional functions)

- H-Link™ communications
- Polar Functions to optimise sailing performance
- Polar Table storage
- Deckman Software

Specifications

H3000 GFD/GPD

Dimensions	173 x 117 x 49mm
Construction	Moulded ABS with aluminium rear case and toughened glass window
Weight	0.7 kg
Sealing	IP67
Operating Temperature	-10 to 55 °C
Humidity Range	Up to 95% rh
Supply Voltage	12V (10 – 16V range)
Power Consumption (lights on/off)	190mA/ 40mA
Interfaces	Fastnet or Simnet



H3000 FFD

Dimensions	168 x 112 x 50mm
Construction	Moulded ABS with aluminium rear case
Weight	0.6 kg
Sealing	IP67
Operating Temperature	-10 to 55 °C
Humidity Range	Up to 95% rh
Supply Voltage	12V (10 – 16V range)
Power Consumption (lights on/off)	90mA/ 13mA
Interfaces	Fastnet, NMEA 0183 in/out



H3000 - 20/20

Dimensions	173 x 117 x 49mm
Construction	Moulded ABS with aluminium rear case
Weight	0.8 kg
Sealing	IP67
Operating Temperature	-10 to 55 °C
Humidity Range	Up to 95% rh
Supply Voltage	12V (10 – 16V range)
Power Consumption (lights on/off)	90mA/ 10mA
Interfaces	Fastnet



H3000 - 30/30

Dimensions	255 x 165 x 54mm (provisional)
Interfaces	FastNet

H3000 - 40/40

Dimensions	322 x 208 x 53mm
Weight	1.5kg
Interfaces	Fastnet



H3000 - Analogues

Dimensions	115 x 115 x 68mm
Construction	Moulded ABS with zinc aluminium rear case and toughened glass window
Weight	0.5 kg
Sealing	IP67
Operating Temperature	-10 to 55 °C
Humidity Range	Up to 95% rh
Supply Voltage	12V (10 – 16V range)
Interfaces	Simnet

H3000 - CPU

Dimensions	266 x 210 x 105mm
Construction	Moulded ABS
Sealing	IP65
Operating Temperature	-10 to 55 °C
Supply Voltage	12V (10 – 16V range)
Operating Current	400mA
Interfaces	Fastnet, NMEA 0183 in/out, USB 2.0, RS232

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B&G reserve the right to change technical specifications in line with product developments.