



# 3020 DISPLAY



The A+T 3020 is a new display engineered to the highest standards for the grand prix racing, superyacht and classic yacht markets. It is a direct replacement for a B&G 20/20, fitting into the same mounting and cut-out, but with much larger digits. It is compatible with existing B&G systems (H2000, H3000 & WTP) plus has future-proof interface and software design to allow for upgrades to new standards and systems.

The highest attention has been paid to water integrity under the harshest conditions and the ability to withstand extremes of heat, sun and cold.

## Main Features

- Very high contrast and clear digits 62mm high
- CNC milled from PA66 billet, chassis has no corrosion issues in carbon
- Fits into same cut-out, screw holes and wiring as existing B&G 20/20 displays, no boat building issues to install
- Fully sealed, each unit tested underwater and to 70°C before shipping
- Bluetooth link for software upgrades and diagnostics
- Two-way NMEA0183 interfacing
- Very fast display refresh rate (>25Hz)
- LCD bonded to quality 3mm toughened glass to eliminate condensation clouding
- Antiglare coated glass with no loss when using polarised sunglasses
- Ethernet interface for future system upgrade

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## Environmental

- IP68 and each unit tested fully immersed for 24 hours before shipping
- Neoprene seal between back shell and main body allows for component level repairs
- All CNC PA66 construction with wall thickness >2.5mm; no corrosion when mounted into carbon
- Cable connection pigtail is hard wired into unit to keep profile low and eliminate issues with plugs and sockets in potentially exposed areas
- Each strand of pigtail separately sealed in epoxy on entry to eliminate water wicking up the cable. Pigtail can be cut short to any length
- Hermetically sealed and tested for temperature and air transport pressure stresses
- Operating temperature -10°C - 70°C. Internal temperature sensor and display

## Interfacing & Power

- Power supply 10-40v dc
- Over volts surge protected with self-resetting fuse
- 8 conductor pigtail initially configured for Fastnet connection
- Ethernet for future upgrade
- Two way NMEA0183 serial interface, so can be used stand-alone
- N2K interface scheduled for May 2017 with Bluetooth for display set-up

## Mounting & Mechanical

- Fits into the cut-outs for either existing B&G 20/20 or FFD/GFD displays and fits the same screw holes
- External overall dimensions 113 x 173 mm
- Cut-out dimensions 94 x 152 mm
- Mounting 4 x M4 self-tapping pan-head or bolts

## Operation, Diagnostics & Configuration

- Self re-booting if corrupt data received.
- Bluetooth module so can be paired with a laptop for field upload upgrades or custom versions
- Internal temperature and humidity measured and logged
- Humidity error code to allow service before serious damage in case of water ingress



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Comparison with B&G 20/20



## Cable Options

### Pigtail for Direct Installation

- 8 core lead, standard length 3m
- Custom lengths available

### Cable with Connectors (IP68)

- Allows units to be swapped out quickly
- Display comes with short (170mm) lead and plug
- Boat installation lead, standard length 3m, custom lengths available
- This is permanently installed at j/b with self-sealing socket (so IP68) when not connected



## Warranty and support

- 2 years warranty is offered on A+T products on return to factory basis
- Warranty starts from earliest date first used or 1 year after leaving factory
- Warranty voided if opened except by A+T. Integral tamper sensor fitted in unit
- 24/7 telephone support is provided direct from A+T Instruments Ltd