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Blink Marine. A leading expert in CAN-based digital switching solutions.

Based in Milan, Italy, Blink Marine was founded in 2001 as a company specializing in the production of onboard instrumentation for seafaring vessels. Starting in 2009, thanks to implementation of CAN bus protocols on all its products, Blink Marine began serving the industrial automotive sector as well.

Today, the onboard electronics sector enjoys one of the highest innovation rates in the world, with continuous contributions from designers, developers, and integrators for vehicles and seafaring vessels. Digital keypads amount to a radical transformation of the dashboard, making the operator's control panel more ordered and essential, as well as helping users manage complex actions in a simple, straightforward manner.

Blink Marine's approach to the sector focuses on maximum flexibility and reliability. Blink Marine keypads are highly customizable, allowing the company to respond to a wide range of needs that are often the result of unique and bespoke client requests.









# PWTR4

PWTR4 embodies an advanced CANbus keypad, featuring a rotary encoder and robust IP67 protection. The 4 quick-select buttons seamlessly complement the functionality of the pushable rotary encoder, which is also available in a joystick version (PWTR4-J).







ROTARY PUSHBUTTON JOYSTICK

100.00 mm - 4.00°

80.00 mm - 3.15"







PWTR6 embodies an advanced CANbus keypad, featuring a rotary encoder and robust IP67 protection. The 6 quick-select buttons seamlessly complement the functionality of the pushable rotary encoder, which is also available in a joystick version [PWTR6-J].







ROTARY PUSHBUTTON JOYSTICK







Together with the six quick-pick keys, the addition of a rotary push button knob makes it possible to manage complex scroll functions on the vehicles display system. PowerTrack boasts numerous personalization options, thanks in part to the flexible management of multi-colour LED's and the ability to mount either vertically or horizontally.

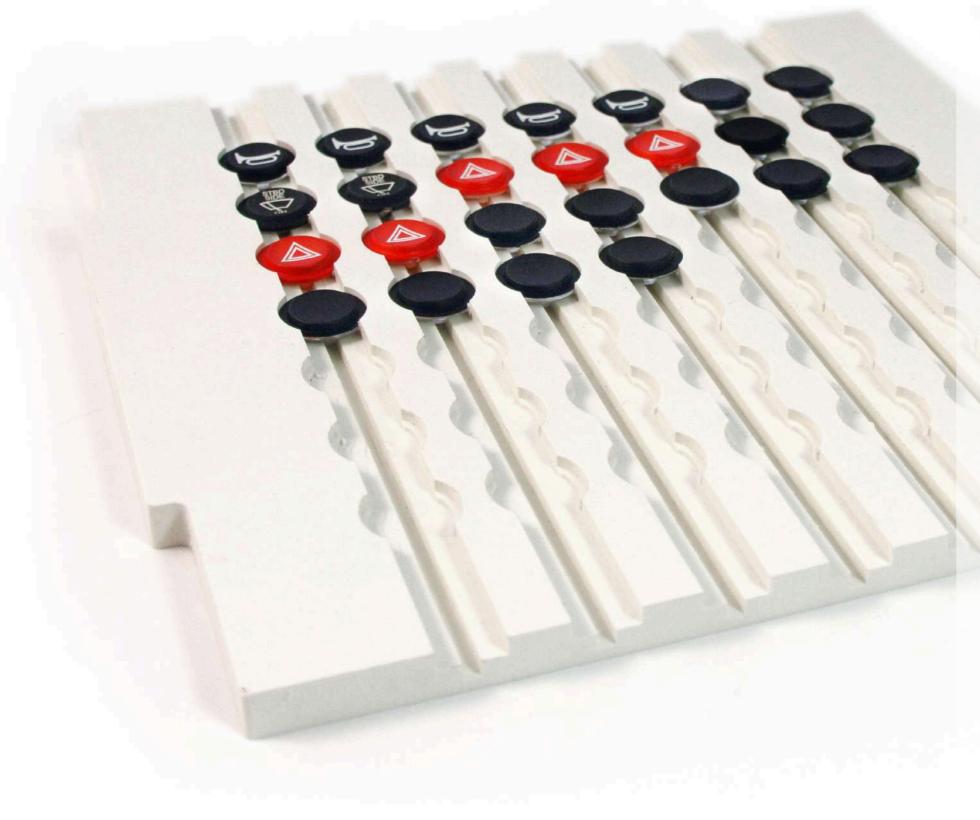




ROTARY PUSHBUTTON

70.00 mm - 2.75"







## CUSTOMIZABLE ICON INSERTS

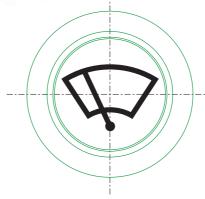
The replacement system for individual inserts makes designing and modifying layout of the keypads in the PKP-SI and PKP-LI series simpler and more economical. A selection of hundreds of different pre-existing keys can be viewed, and it is possible to order customized inserts.

An online set-up system makes it possible to select and design your own prototype, then order it directly on <u>blinkmarine.com</u>.





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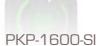




# **PKP-SI SERIES** FLEXIBLE, SMART, RUGGED

Designed for even the harshest conditions, the PowerKey PRO withstands the cleaning force of pressure washers and holds on IP67 and IP69K rating, making them immune to waste, mud, soil, sand, oil, most chemicals and almost anything else thrown at it.

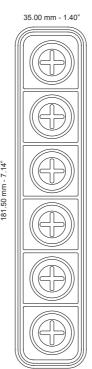


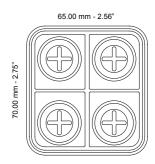


Six small keys



Four small keys

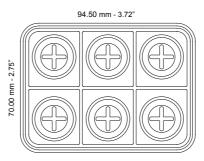










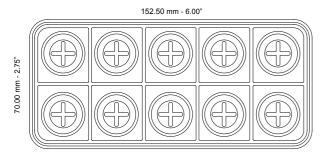




123.50 mm - 4.86°

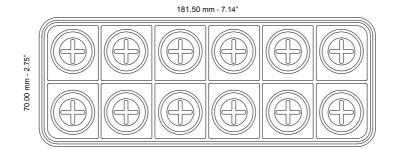








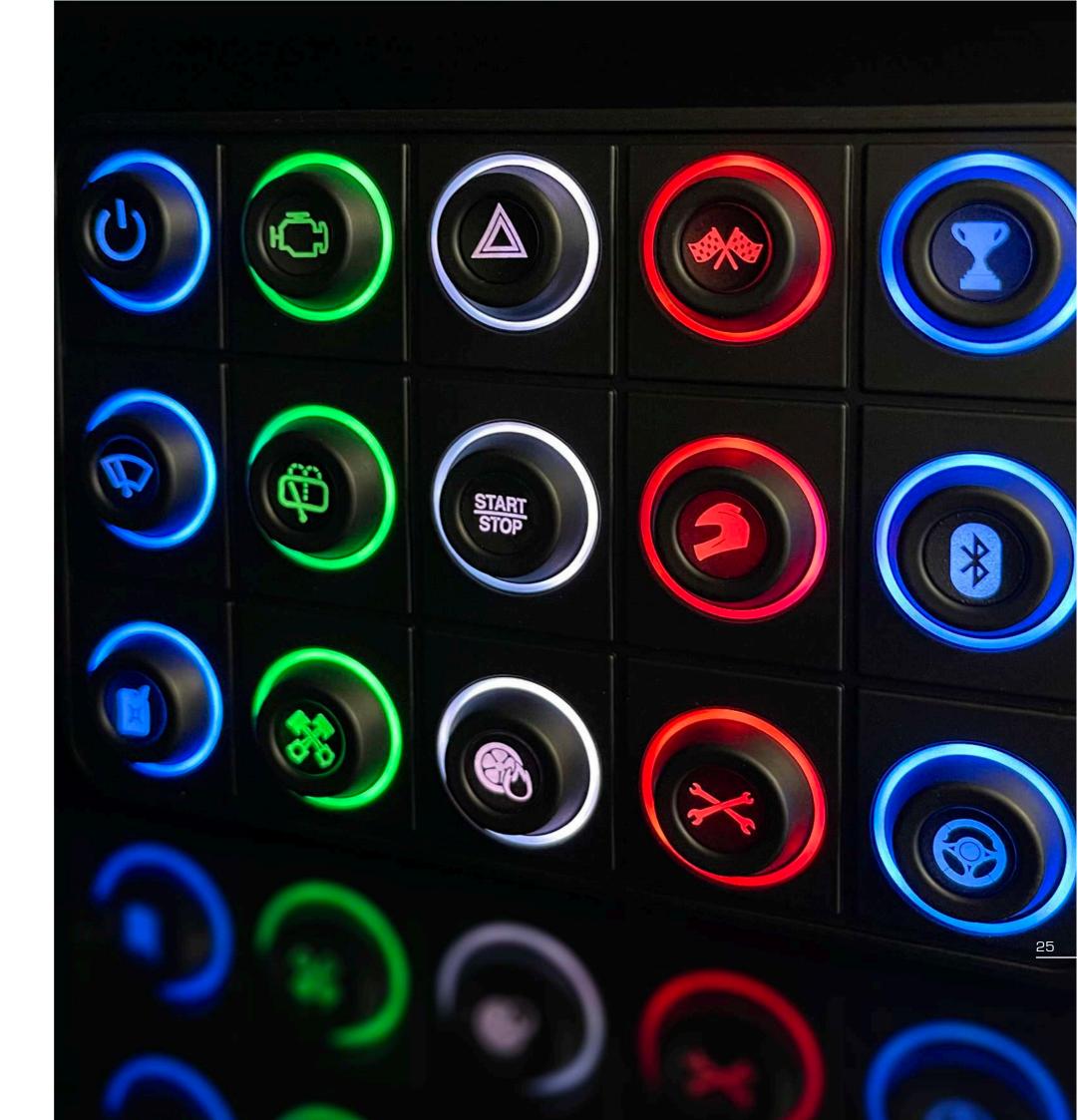
Twelve small keys







152.50 mm - 6.00"





# PKP-SI-MT SERIES

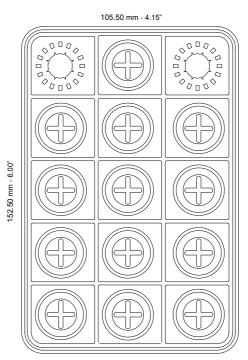
CAN-BUS KEYPADS WITH 2 ROTARY ENCODERS

PKP-3500-SI-MT is a new direction in CANbus keypads. This all new design comes equipped with thirteen push buttons with replaceable icon inserts, plus two rotary encoders that are also push enabled. The compact layout and inclusion of the rotary encoders allows for significant dash space saving while expanding the functionality of the vehicle.







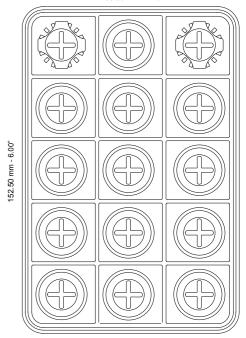






encoders with a rubber knob that allows for a standard PKP-SI insert to be fitted.











# **PKP-LI SERIES** FLEXIBLE, SMART, RUGGED

Like the PKP-SI series family, these large button models are designed for even the harshest of conditions for both internal and external applications.





Two large keys

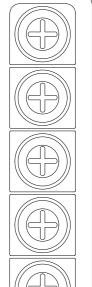
52.00 mm - 2.05"





Five large keys

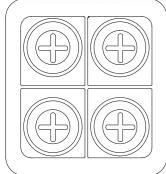
52.00 mm - 2.05"





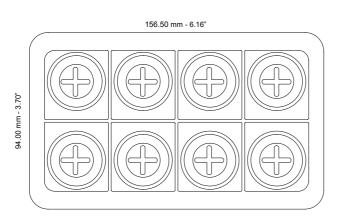


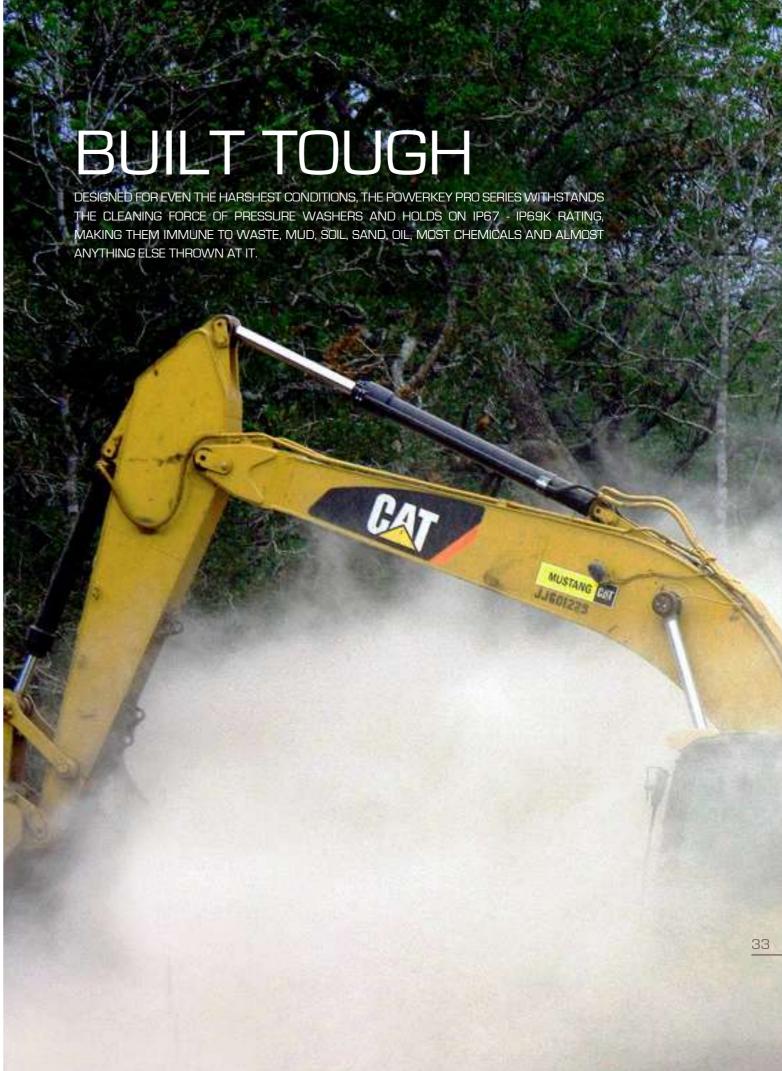














# POWERKEY PRO SERIES

- Reconfigurable keys
   Relegendable buttons
   LED state & status configurable
   Vertical or horizontal mount
   Flush or front mount

- Multi-colour indicator rings
   Laser etched icons
   ON/OFF, momentary, toggle & scroll
   Hundreds of stock icons to

- Periodic status transmission
  Heartbeat
  Event status transmission

- LED acknowledgement
   Address claim transmission
   CANopen and J1939

- Programmer's user manuals available to help support
- Plug-and-play reconfigurability
   Supplied as fixed laser-etched icons





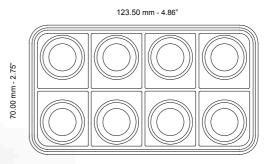


Eight small keys

94.50 mm - 3.72"

PKP-2300-SI-FR

Six small keys



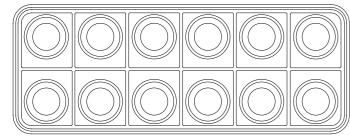
PKP-SI-FR FOR PRODUCTION VOLUME ORDERS

The inserts of the keypads in the PKP-SI-FR series are not removable. This makes them perfect for those who want to maintain the PKP aesthetic without the need to manage layout changes. The FR series also means a 35% increase in the surface area of the decal



Twelve small keys

181.50 mm - 7.14"









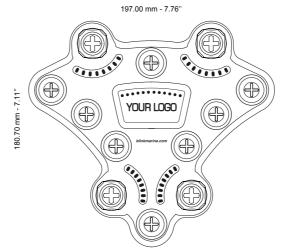


Racepad is available in two different standard versions, depending on the type of rotary knob.



### RACEPAD MODEL R

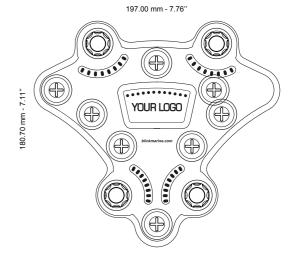
This version comes equipped with rubber knobs, allowing for the application of our standard icon inserts. The rubber knobs offer enhanced grip and tactile feedback, providing a comfortable and customizable experience







This version features a solid plastic knob for the four encoders. It offers a durable and reliable design, perfect for those who prefer a solid feel and precise control during their races.





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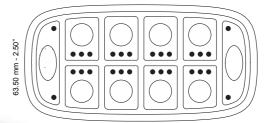




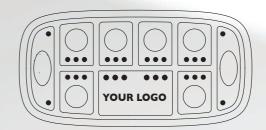


Available in three different layouts: 6, 8, 10 Keys

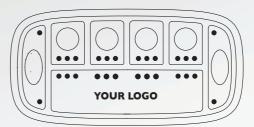
127.00 mm - 5.00"



10 Keys



8 Keys



6 Keys



# PK SERIES

- Vertical or horizontal mount

- Overlay
  Laser Etch
  Pad Print
  LED backlit icons
  ON/OFF, momentary, toggle & scroll

- Change CAN keypad addresses independently
   Periodic Status transmission
   Heartbeat

- Event status transmission
   LED acknowledgement
   Address claim transmission
   CANopen, J1939

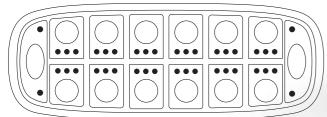
- Programmer's user manuals available to help support
- Plug-and-play reconfigurability
   Supplied as fixed laser-etched icons



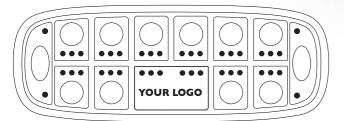
PK1400

Available in three different layouts: 10, 12, 14 Keys

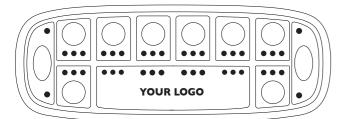
170.00 mm - 6.69"



14 Keys



12 Keys



10 Keys







## **EXPAND YOUR ONBOARD TECHNOLOGY**

KeyBox provides all the innovation of a Blink Marine technology without the cost and complexity of a larger digital system. It is designed for use primarily with vehicles or boats without the larger price tag of the more complex systems.

### ELECTRICAL FEATURES

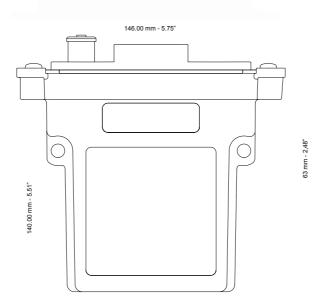
- 13 switched circuits that include:
- 13 switched circuits that include:
   Momentary, toggle, and time-out functions
   Circuits rated up to 10 ampere at 12V and 5 ampere at 24V maximum continuous load (resistive)
   Isolated relay outputs
   Fuse protected circuits
   Input undervoltage lock down and overvoltage protection

### SPECIAL FEATURES

- CAN-bus compatible (CANopen)
- Online configurator tool available for field programmability of electrical functions

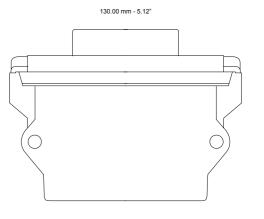


Compact and versatile; KeyBox is a smart relay module for electric loads that permits the utilisation of Blink keypads where there are no PLC systems on board. Thanks to its CAN bus interface and high power outputs, KeyBox can also be used in "slave" mode with more complex systems.





Compact and versatile; PG8 is a gateway module designed to provide customers with additional, simple interface solutions: additional inputs (digital and analogue) and low power outputs. All while still enjoying all the benefits of CAN bus multiplex technology.





### 22 OUTPUTS, 15A EACH

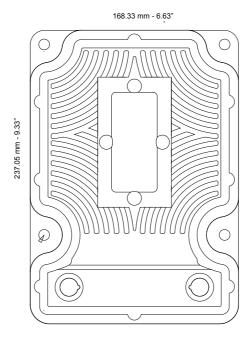
PC21B is an all new power management enclosure designed and manufactured by Blink Marine. It can support up to 22 outputs, 15A each, in an IP67 enclosure. PC21B hardware is fully compatible with the previous generation of PC21 controllers (by DSS / DNA) installed on boats throughout the USA and distributed globally. This allows Blink Marine to design software 100% compatible with old DSS / DNA systems.

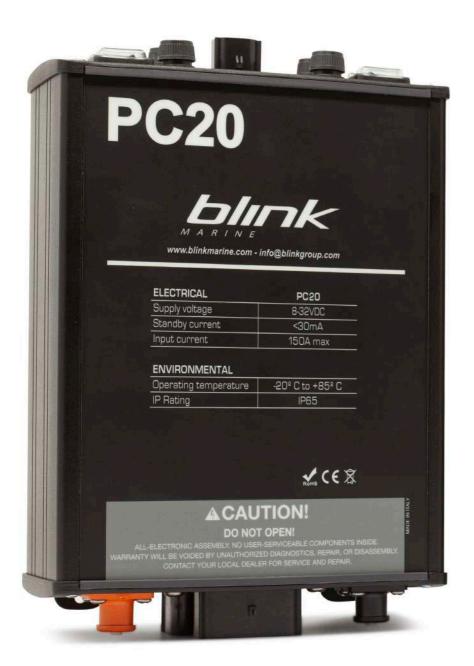
### Electrical Features

- 12V or 24V nominal input voltage 150 Ampere total PME input current
- TOU Ampere total PME input currer carrying capability
   22 switched circuits that include:
   Momentary, toggle and time-out functions
   Pulse-width modulation of output voltage for dimming capability on 3 circuits
  - 22 circuits, each rated up to 15A
  - 2 complete H-Bridge circuits for driving reversible motors
- Paralellable output increases current rating
- An electronic circuit breaker protects every circuits. The current rate for each circuit can be set independently
  Remote reset of any output circuitry fault directly from the keypad
  Input undervoltage lock down



Deutsch DRC 10-40P-A004





### THE BRAIN OF YOUR SYSTEM

The Power Management Unit is the brain of the system. It receives requests from switch or keypad and handles these commands based on the current state of the system. The output may be the activation/deactivation of a circuit, starting a timer function or, in a system with keyless start, locking or unlocking of the system.

The PowerCore then sends status data from system to keypad to turn on/off the LED indicators and backlighting.

### ELECTRICAL FEATURES

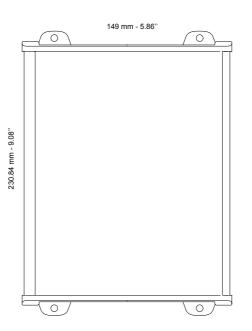
- 12V or 24V nominal input voltage
   PC10-100Ampere total PME input current carrying capability @ 12 volts
   PC10-12 switched circuits that include:
   Momentary, toggle, and time-out functions
- Pulse-width modulation of output voltage for dimming capability
  - 3 circuits rated up to 20A maximum
- continuous load, 9 circuits rated up to 15A
- 2 complete H-Bridge circuits for driving reversible motors
- Paralellable output increases current rating
- every circuits. The current rate for each circuit can be set independently.
   Remote reset of any output circuitry fault directly from the keypad
   Input undervoltage lock down and
- overvoltage protection



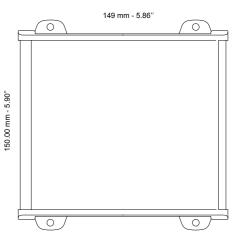
Molex connector 16 Pin



Deutsch connector 24 Pin

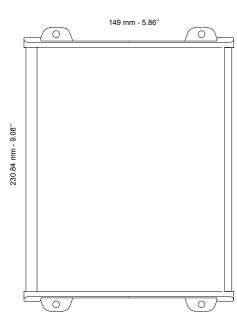


149 mm - 5.86" 0





Molex connectors 16+12 Pin







### Blink S.r.l.

Via Montefeltro, 6 - 20156 Milan - Italy Tel. +39 02 3088583 - Fax +39 02 33406697 info@blinkgroup.com www.blinkmarine.com

### Blink Marine Australia Pty Ltd.

A: Unit 8 No. 27 Allgas Street - Slacks Creek QLD - Australia - 4127 PA: PO Box 1301 - Slacks Creek QLD - Australia - 4127 Phone: +61 7 3290 1196 - Mobile: +61 413 123 520 sales@blinkaustralia.com www.blinkmarine.com

### Blink America LLC

6465 N Avondale Ave - Chicago, IL 60631 – USA Ph. +1 (773) 828-4863 - Fax +1 (773) 775-1716 usainquiries@blinkgroup.com www.blinkmarine.com

## Blink (Asia) Ltd.

m 2302, 23/F Marina House, 68 Hing Man Street, Shau Kei Wan – Hong Kong 香港 筲箕湾, 興民街68號, 海天廣場 23/F, 2302室 Ph. +(852) 9763 8051 asiasales@blinkgroup.com www.blinkmarine.com