

Letter of Clarification

We hereby confirm that iBoat BS3 is designed and produced by us and give clarification as below,

iBoat BS3 :

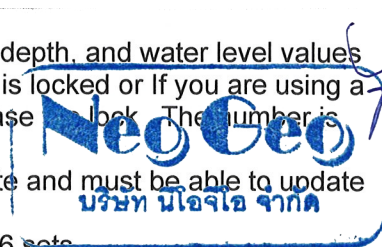
1. The survey ship must be an unmanned survey vessel (no control on board), can operate via remote control, can be installed and determined the planned route to collect data according to the specified route.
2. Survey hulls when combining batteries and exploration equipment such as deepwater pollers and RTK GNSS satellite receivers must weigh no more than 30 kg for ease of transport.
3. The survey vessel, once equipped with all exploration equipment and batteries, must have a water consumption rate of no more than 0.5 meters (≤ 0.5 meters).
4. Expedition ships must have shallow water alert and protection system Users must be able to set themselves up to ensure the safety of the survey vessel and prevent damage in case the vessel approaches shallow shore.
5. Must have at least 3 batteries or more.
 - 1 set of fixed batteries on the ship
 - 2 spare batteries
6. At least 1 battery charger or more must be available .
7. The expedition ship must be equipped with an RTK GNSS satellite receiver with at least 1 satellite receiver to indicate the heading of the vessel.
8. The boat must be able to move in the designated direction If the route is planned without wandering and the survey data can be collected correctly. And while the boat is stationary, it must be able to indicate the heading direction to increase navigation accuracy.
9. There are at least 6 sets of manuals in English and Thai .

Echo Sounder :

1. It is a water seer to find the digital depth type single frequency or better installed at the automatic water-based survey boat.
2. The water regulator must be able to calibrate .
3. There are at least 6 sets of user manuals in English and Thai.

Himax Sounder :

1. It is a program used to control the operation of expedition vessels such as the route, boat speed and exploration route of the vessel.
2. Survey scope must be able to be determined based on aerial photographs such as Google earth or other programs. It must be able to determine the distance between the exploratory lines.
3. Must be able to create and route the boat. The plot is a real-time path, clearly visible on the screen, the processor can be browsed later. For the convenience of the user at a later date.
4. The position of the survey vessel can be displayed while working.
5. Water depth and GNSS coordinates can be displayed as numerical formats via the display screen of the remote control vessel or portable processor.
6. Supports at least dxf import data
7. Must be able to export Dot Name At least coordinates, water depth, and water level values
8. Must be a legitimately licensed program in case the program is locked or If you are using a hard lock program or another, you must have a key lock to release lock. The number is not less than 1. set
9. The program used must be available without an expiration date and must be able to update at least 3. year
10. English and Thai instruction manuals are available. At least 6 sets





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1. GNSS satellite nest operation can be supported by static fast static or rapid static and real time kinematic (RTK) single baseline and network RTK method.
 2. Can support the latest high resolution Geoid Model of TGM Military Map 2017 To calculate the orthometric height.
 3. You can navigate to the stake out or navigation pins in at least the direction of the north or the sun.
 4. There is an internal battery that can work for at least 6 consecutive times. Hour Number 2 Lumps per 1 Set and spare battery Number 1 set
 5. The GNSS satellite receiver has a symbol that can indicate the status of the machine or better.
 6. Satellite receiver can act as both Base and Rover in the same machine.
 7. Requires an electric charger device for battery Number 1 set
 8. Tripod must be adjustable. Number 1 set
 9. Must have a tribrach camera base It has a round bubble and optical plummet, as well as a camera base mount for installing satellite plates. Number 1 set
 10. There are instruction manuals in English and Thai. At least 6 sets
 11. There is a Transport Case for containing of GNSS satellite receiver and accessories
1. There are at least 1 satellite receiver plates. Set to be used to indicate direction (Heading)
 2. There are manuals in English and Thai. At least 6 sets

iHand55 Professional Field Controller

1. The machine is strong, durable, dustproof and waterproof according to IP67 or better. Resistant to vibration according to MIL-STD-810G or better and withstands vibration and fall resistance. Height 1.2 meters on concrete floor or better
2. The driver of the temple nest is at least an English menu.
3. There are instruction manuals in English and Thai. At least 6 set

HGO Data Post Processing Software

1. The program must be the same brand as the satellite receiver, legally licensed, with no time limit in any case, in the event that the program has a lock, a key lock is required to release the lock.
2. It can work on Microsoft Windows 8 operating system or higher.
3. At least GNSS satellite data or GPS GLONASS Galileo and BEIDOU satellite systems can be processed.
4. The program can process GNSS satellite data and modify the network (Baseline Processing and Network Adjustment).
5. Reference coordinates can be displayed on the geodetic datum, WGS84 or better.
6. It can support the latest high resolution Geoid Model of the Military Map Department TGM 2017. To calculate the orthometric height.
7. Supports RINEX data files and converts satellite data into standard RINEX data.
8. English and Thai instruction manuals are available. At least 6 sets

Yours faithfully

Alex Li

Distribution Director of Asia-Pacific Region

Hi-Target Surveying Instrument Co., Ltd.

