

SOUTH New generation USV

SU20



SOUTH



Left old version: laptop,
network bridge station, remote
controller

Right, new version: Android
remote controller, onboard
survey and USV control
software

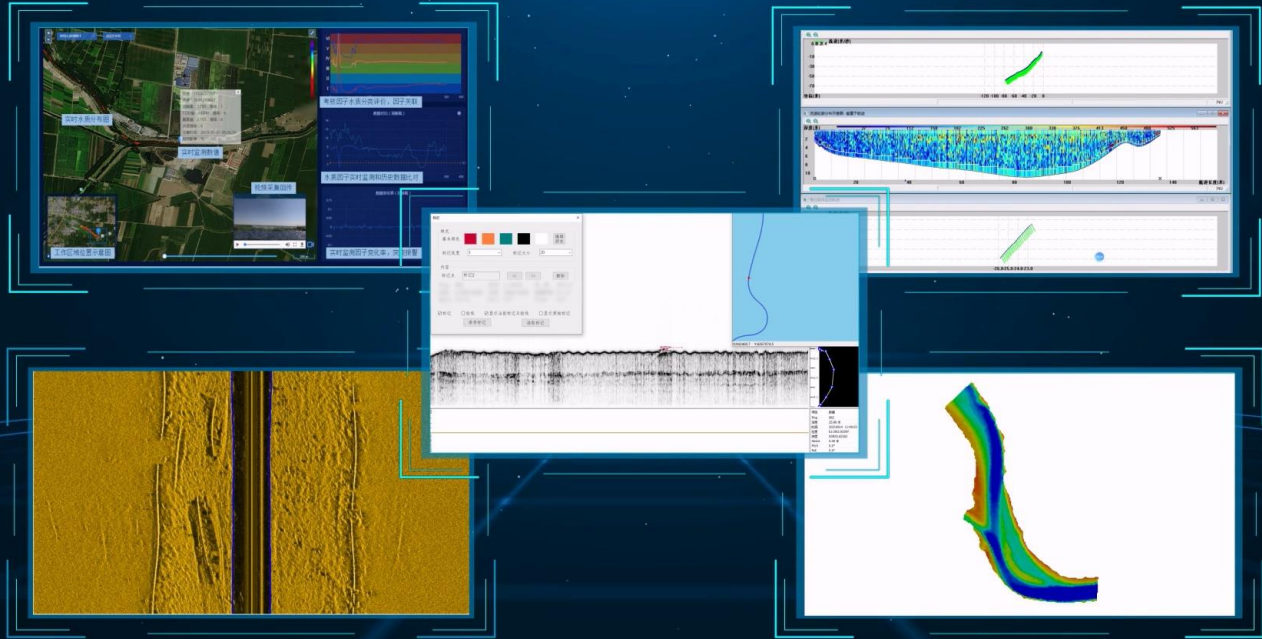


Convenient
operation at
field

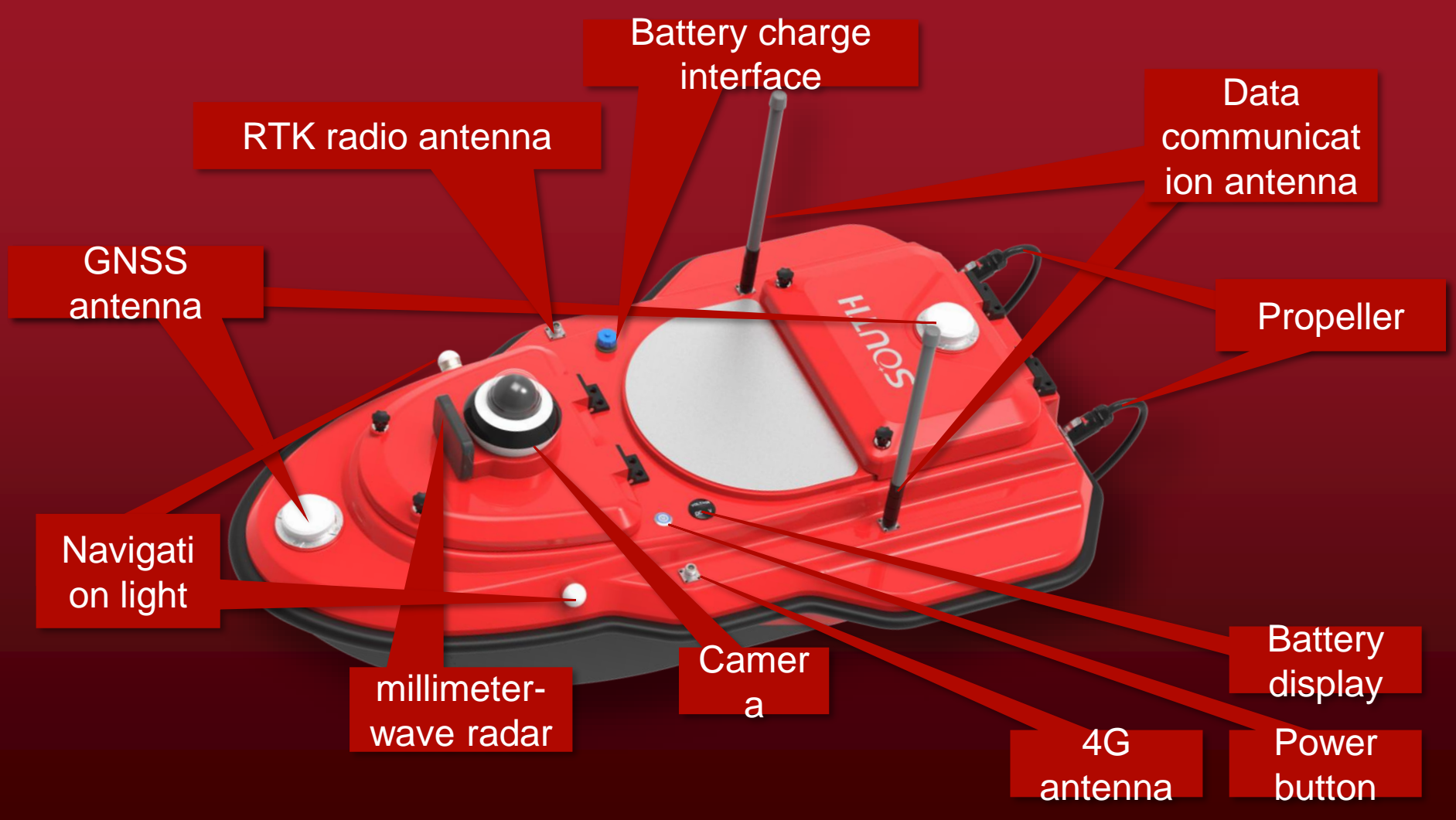


No laptop, no network station

Echo sounder
ADCP
Sub bottom Profiler
Side scan
Multibeam echo
sounder



Multiple application in SU20



Battery charge interface

RTK radio antenna

Data communication antenna

GNSS antenna

Propeller

Navigati on light

Battery display

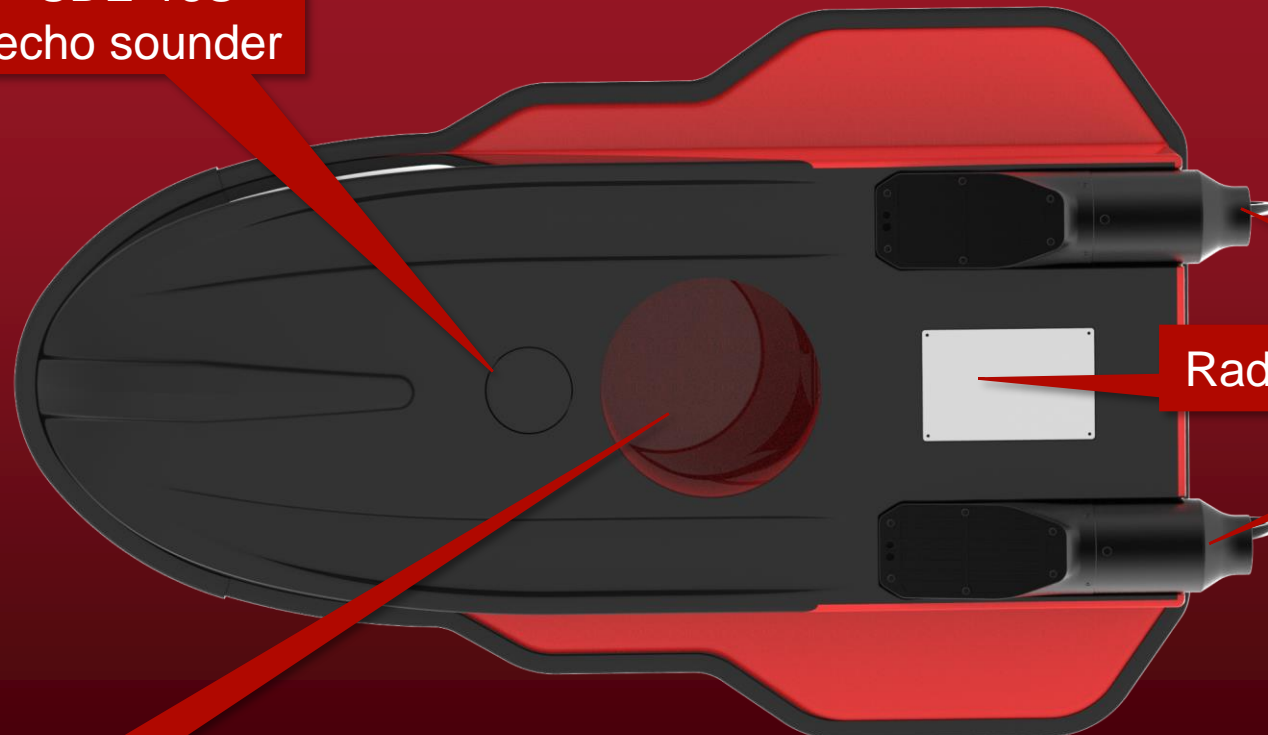
millimeter-wave radar

Camera

4G antenna

Power button

SDE-18S
echo sounder



Radiator

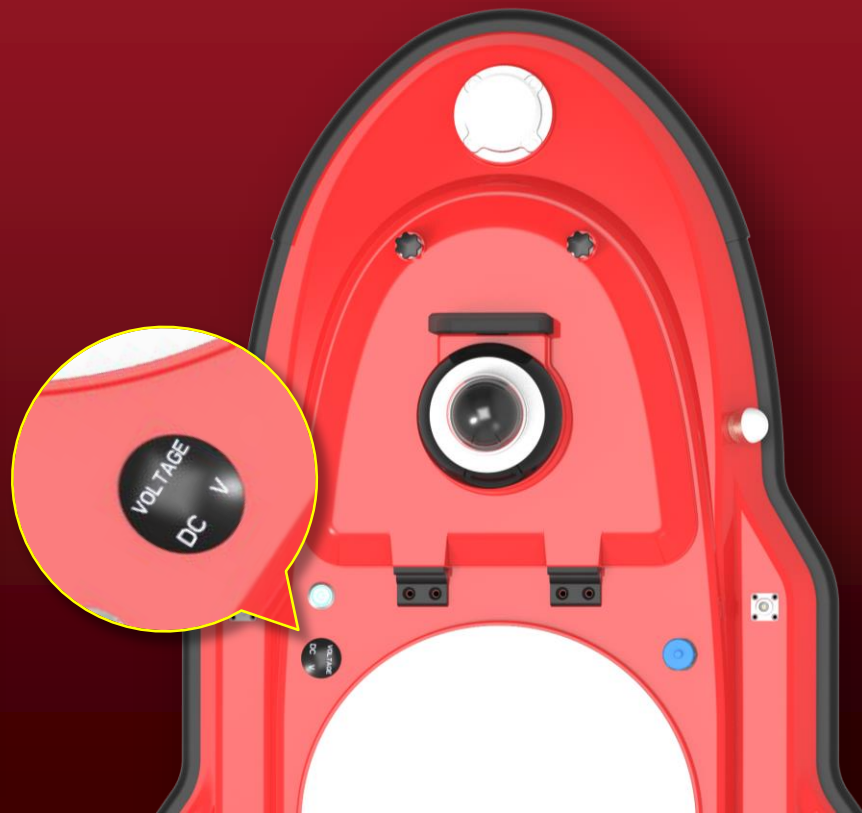
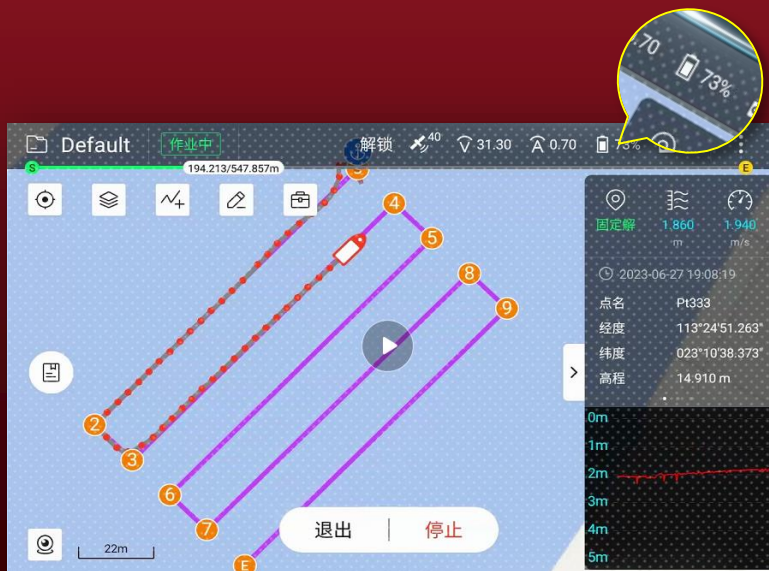
Propeller

Moon
pool

Battery status display



Both Android software and SU20 hull can display the battery status



4G communication

For no limited remote
distance,
Multiple data
communication



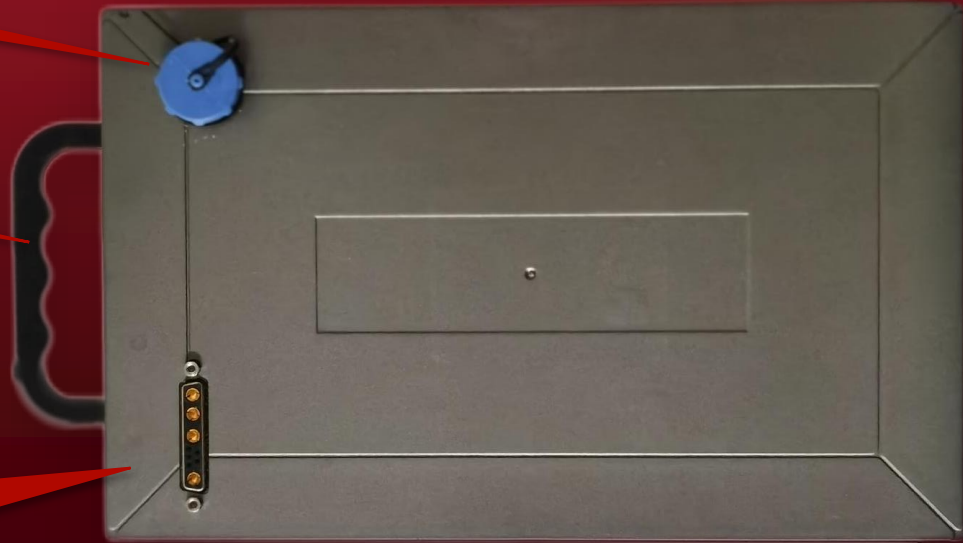
SIM slot

Simply replaced battery

Charge
interface

Handle

Power
connection



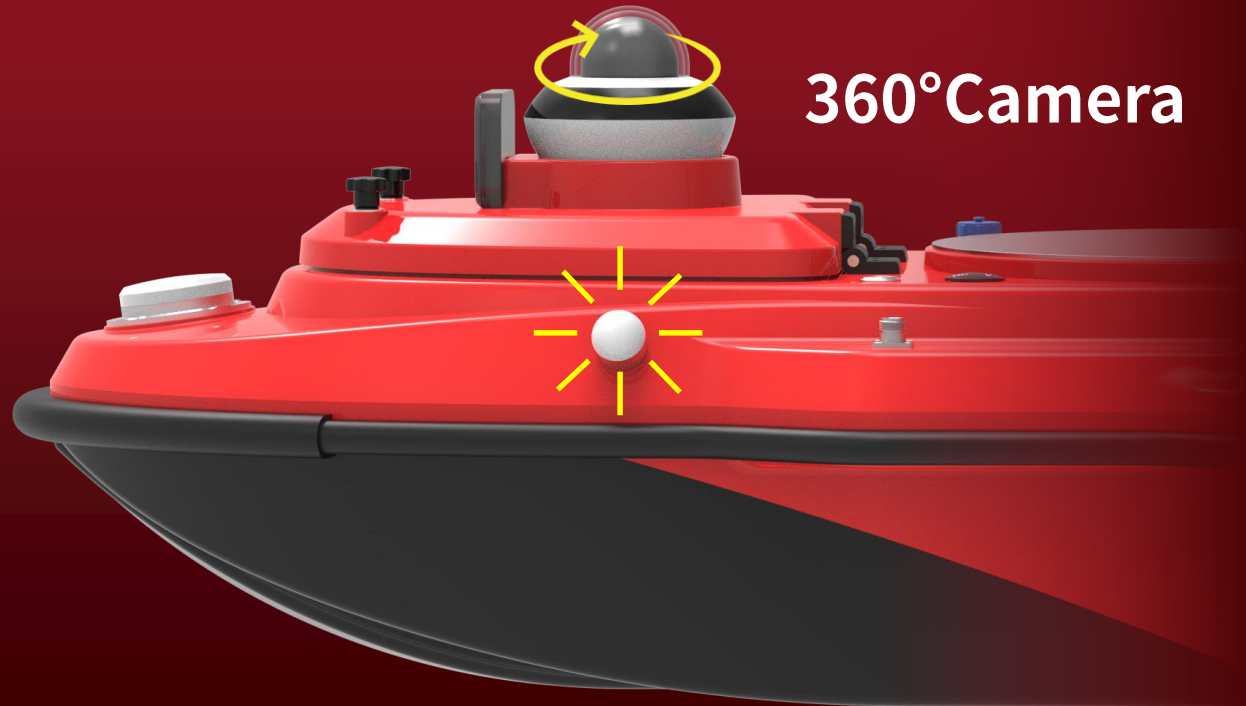
Double-deck hull design

More safety, sink protection



Navigation light and camera

For long distance
remote control



360° Camera

High performance GNSS receiver

Dual antenna, stable heading output for better auto pilot performance

Support BD-3 signal and BDS-PPP for higher accuracy position



High performance propeller



Maximum boat speed 7m/s
For complicated water environment



Modularized design
propeller
For simply maintenance



Anti-waterweeds
filter

Moon pool

USV Platform for kinds of devices combination



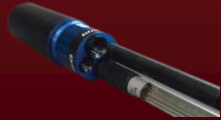
ADC



Sub Bottom Profiler



Dual frequency echo sounder



Water quality sensor



Side scan sonar



Multi-beam echo sounder



Integrated the SDE-18S



Ternary lithium battery



High performance, 4-5 hours working time in auto pilot mode



Battery handle, simple replacement



Stable connection, safety power supply



All in one data link



Network
bridge: 2KM



3/4G: no
distance
limitation



No network station, laptop and Windows
software at field

Android remote and survey controller



9.2 inch LCD screen, convenient for software operation



Support external disk storage



Support 3G/4G communication



Realtime camera display in survey software



Controller operation

H speed
M speed
L speed

Unlock
Lock

Forward
Backward

Auto
Manual
Hover

On/off

Left/
Right



Shallow water alarm

Avoid and protect
USV and loaded
devices



Back home point

Disconnect

Low power

Automatically

back the home point



Android control and survey software

SOUTH development

USV control configuration

Auto pilot

Data communication and
collection

Navigation and plan lines

ALL in one design



Q&A
THANKS!