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BHC Navigation Co., Ltd.
Beijing, China
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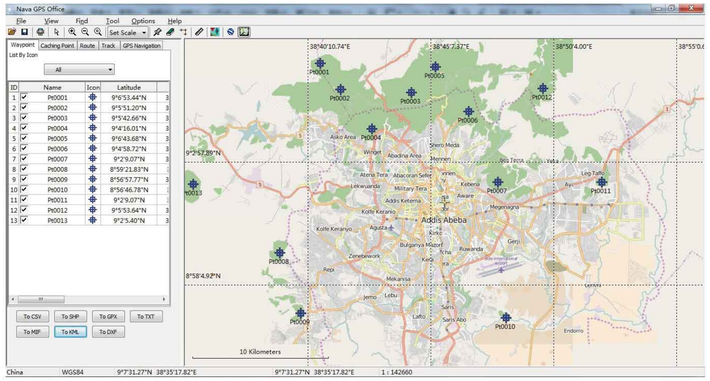
About BHCnav

BHC Navigation Co., Ltd. was founded in 2004 as a national-level high-tech enterprise in Beijing China. For more than two decades, BHC Navigation has focused on the application, product solutions and development of satellite positioning and navigation technologies. Its product portfolio includes rugged field-use terminals (handheld devices, tablets, etc.) BEIDOU RD terminals (vehicle-mounted, ship-borne, airborne, command-type terminals, etc.), portable handheld products for outdoors, measure and survey, terminal positioning data collector software, as well as terminal management and security software. Relevant products have obtained certifications including ISO, CCC, FCC and CE. They are widely deployed in industries such as outdoor, fishing and hunting, hiking and trekking, agriculture, forestry, mining, surveying, voyage, natural resources, animal husbandry, emergency response & fire protection, electric power, military, water conservancy and environmental protection.

Guided by its corporate goal — "To provide the most reliable and satisfying satellite positioning and navigation products and services for users' work and life", and its corporate vision — "To become a global leader in the handheld portable-application segment of the satellite positioning and navigation industry", BHC Navigation draws on years of technological accumulation, reliable product performance and comprehensive after-sales services to maximally satisfy users' diverse requirements for software-hardware applications and system integration in real-world work and daily-life scenarios.

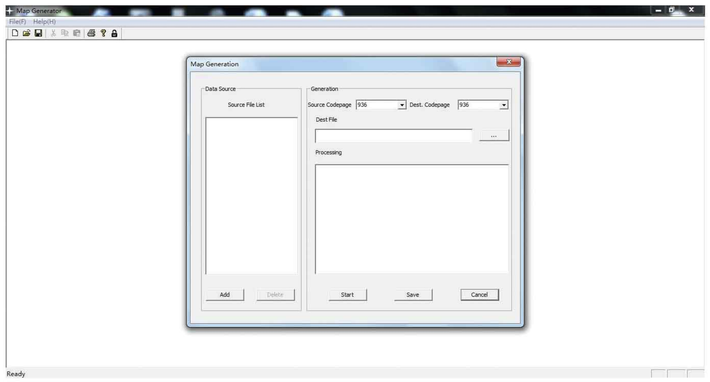
Against the backdrop of rapid development of satellite positioning systems including BEIDOU, GPS, GLONASS and GALILEO, satellite-positioning navigation products are gradually penetrating every corner of human life. Upholding advanced technologies, high-quality products and a win-win cooperation philosophy, BHC Navigation will work hand-in-hand with partners from all sectors to advance the development and application of GNSS positioning-navigation technologies for a better life for all.

NAVA GPS Office (NGO)



NAVA GPS Office lets you manage and export & import your waypoints, tracks and routes in multiple GPS data formats, including GPX, SHP, MIF, CSV, KML, DXF, and TXT between your NAVA series handheld GPS and computer.

Map Generator



Map Generator lets you generate the vector map and upload it into your NAVA series handheld GPS.

Self-made Map

Users can download custom maps online through third-party software for NAVA series handheld GPS.

KEY FEATURES

- 2.2" display | QVGA, 65K color, 240x320 pixels, sunlight-readable screen
- High-sensitivity | GPS, GLONASS and BEIDOU receiver
- Entry-level GIS data collector | Small, portable, rugged with buttons
- Support dual battery system | Lithium and 2xAA battery
- Maps | Support Vector, DEM, Raster map (Open street map, Google map etc.)
- Built-in memory | 8 GB of internal memory and a microSD card slot (max 32GB)

NAVA F30

See the Way

NAVA® F30 has an enhanced 2.2", 65K color, 240x320 pixels sunlight-readable display, durable and portable.

Excellent GPS, GLONASS and BEIDOU Performance

NAVA® F30 supports not only GPS but also GLONASS and BEIDOU, with its high-sensitivity, WAAS, EGNOS, MSAS -enabled GPS receiver, NAVA® F30 locates your position quickly and precisely and maintains its location even in heavy cover and deep canyons.

Multi-purpose Handheld GPS

NAVA® F30 is an ideal rugged GPS, GLONASS & BEIDOU receiver for a large range of applications from Agriculture, Forest and Biology, Mining, Surveying, Outdoor, Military, Nautical, Hydrographic studies, Engineering disciplines, Geographical (GIS) and Urban information systems,Municipalities and Public works directorates, Electricity Electronics, Geological studies, Sporting, National Real Estate-land survey directorates, Remote sensing, Public sector and institutions, Planning and First draft projects...

Add Maps

Worldwide basemap preloaded, and NAVA® F30 also supports City detail map, DEM map, and Raster map. User can download the raster map from open stree map, google map and other map resources.

Multiple GPS Data Formats to Share

NAVA® F30 lets you manage and export & import your waypoints, tracks and routes in multiple GPS data formats, including GPX, SHP, MIF, CSV, KML, DXF, and TXT via NAVA GPS Office software on your computer.

Technical Specifications

Physical & Performance:

Unit dimensions, WxHxD:	5.7x12.9x2.8cm
Display resolution, WxH:	240×320 pixels, QVGA
Display size, WxH:	2.2"
Display type:	Transflective TFT, 65K colors
Weight:	113g (without battery)
Battery:	2×AA (not included); Lithium Battery recommended
Battery life:	2xAA (up to 15 hours), Lithium (up to 20 hours)
Waterproof:	IPX7
High-sensitivity receiver:	Yes
Interface:	USB 2.0 and NMEA 0183 compatible

Maps & Memory:

Basemap:	Preloaded worldwide basemap
Ability to add maps:	Yes
Built-in memory:	8GB
Accepts data cards:	Yes (microSD™ card max 32GB)
Waypoints/favorites/locations:	3000
Routes:	200
Track log:	400 saved tracks, 10000 points

GPS Performance:

GPS accuracy:	3-7m (GPS, GLONASS and BEIDOU); 1-3m (GPS with SBAS)[1]

Features:

Automatic routing:	Yes (with optional mapping for detailed roads)
Electronic compass:	No
Barometric altimeter:	No
Thermometer:	No
Geocaching-friendly:	Yes
Custom maps compatible:	Yes
Outdoor GPS games:	Yes
Hunt/fish calendar:	Yes
Sun and moon information:	Yes
Area calculation:	Area and Perimeter Calculation
Custom POIs :	Yes
Google data compatible:	Yes
AVG:	Yes
Calculator:	Yes
Military grid reference system coordinates:	Support

In the box:

- NAVA F30 GPS device
- USB Cable
- User Manual
- Lanyard
- Inspection Card

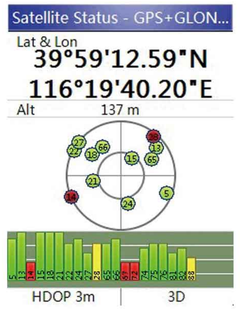
Optional Accessories:

- Vehicle charger
- Micro SD card
- Carrying case
- Lithium battery
- AC power adapter

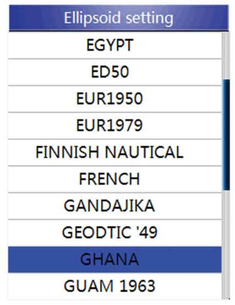
[1] WAAS available in North America only, EGNOS available in Europe only, and MSAS available in Japan only.

* Specifications subject to change without notice.

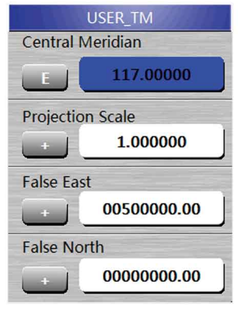
Main Menu



High-Sensitivity



Ellipsoid Setting



User_TM Setting

KEY FEATURES

- 2.2" display | QVGA, 65K color, 240x320 pixels, sunlight-readable screen
- High-sensitivity | GPS, GLONASS and BEIDOU receiver
- Entry-level GIS data collector | Small, portable, rugged with buttons
- Support dual battery system | Lithium and 2xAA battery
- Maps | Support Vector, DEM, Raster map (Open street map, Google map etc.)
- Built-in memory | 8 GB of internal memory and a microSD card slot (max 32GB)
- Built-in sensors | Barometric altimeter, 3-axis E-compass, Thermometer

NAVA F60

See the Way

NAVA® F60 has an enhanced 2.2", 65K color, 240x320 pixels sunlight-readable display, durable and portable. NAVA® F60 adds a built-in 3-axis electronic compass, which shows your heading even when you're standing still, without holding it level. Also added is a barometric altimeter.

Excellent GPS, GLONASS and BEIDOU Performance

NAVA® F60 supports not only GPS but also GLONASS and BEIDOU, with its high-sensitivity, WAAS, EGNOS, MSAS -enabled GPS receiver, NAVA® F60 locates your position quickly and precisely and maintains its location even in heavy cover and deep canyons.

Multi-purpose Handheld GPS

NAVA® F60 is an ideal rugged GPS, GLONASS & BEIDOU receiver for a large range of applications from Agriculture, Forest and Biology, Mining, Surveying, Outdoor, Nautical, Hydrographic studies, Engineering disciplines, Geographical (GIS) and Urban information systems,Municipalities and Public works directorates, Electricity Electronics, Geological studies, Sporting, National Real Estate-land survey directorates, Remote sensing, Public sector and institutions, Planning and First draft projects...

Add Maps

Worldwide basemap preloaded, and NAVA® F60 also supports City detail map, DEM map, and Raster map. User can download the raster map from open stree map, google map and other map resources.

Multiple GPS Data Formats to Share

NAVA® F60 lets you manage and export & import your waypoints, tracks and routes in multiple GPS data formats, including GPX, SHP, MIF, CSV, KML, DXF, and TXT via NAVA GPS Office software on your computer.

Technical Specifications

Physical & Performance:

Unit dimensions, WxHxD:	5.7x12.9x2.8cm
Display resolution, WxH:	240×320 pixels, QVGA
Display size, WxH:	2.2"
Display type:	Transflective TFT, 65K colors
Weight:	113g (without battery)
Battery:	2×AA (not included); Lithium Battery recommended
Battery life:	2xAA (up to 15 hours), Lithium (up to 20 hours)
Waterproof:	IPX7
High-sensitivity receiver:	Yes
Interface:	USB 2.0 and NMEA 0183 compatible

Maps & Memory:

Basemap:	Preloaded worldwide basemap
Ability to add maps:	Yes
Built-in memory:	8GB
Accepts data cards:	Yes (microSD™ card max 32GB)
Waypoints/favorites/locations:	3000
Routes:	200
Track log:	400 saved tracks, 10000 points

GPS Performance:

GPS accuracy:	3-7m (GPS, GLONASS and BEIDOU); 1-3m (GPS with SBAS)[1]

Features:

Automatic routing:	Yes (with optional mapping for detailed roads)
Electronic compass:	Yes
Barometric altimeter:	Yes
Thermometer:	Yes
Geocaching-friendly:	Yes
Custom maps compatible:	Yes
Outdoor GPS games:	Yes
Hunt/fish calendar:	Yes
Sun and moon information:	Yes
Area calculation:	Area and Perimeter Calculation
Custom POIs :	Yes
Google data compatible:	Yes
AVG:	Yes
Calculator:	Yes
Military grid reference system coordinates:	Support

In the box:

- NAVA F60 GPS device
- USB Cable
- User Manual
- Lanyard
- Inspection Card

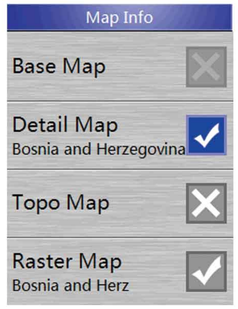
Optional Accessories:

- Vehicle charger
- Micro SD card
- Carrying case
- Lithium battery
- AC power adapter

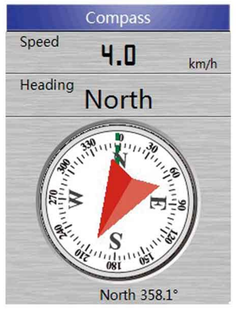
[1] WAAS available in North America only, EGNOS available in Europe only, and MSAS available in Japan only.

* Specifications subject to change without notice.

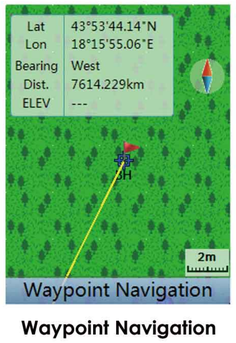
Setting



Map Setting



3-axis E-compass



Waypoint Navigation

KEY FEATURES

- 2.8 display | QVGA, 65K color, 240x320 pixels, sunlight-readable screen
- Quad helix antenna | High-sensitivity GPS, GLONASS and BEIDOU receiver
- Floatable | Portable, Rugged and Capable of floating on the water
- Support dual battery system | Lithium and 2xAA battery
- Maps | Support Vector, DEM, Raster map (Open street map, Google map etc.)
- Built-in memory | 8GB of internal memory and a microSD card slot (max 32GB)

NAVA F70

See the Way

NAVA® F70 has an enhanced 2.8", 65K color, 240x320 pixels sunlight-readable display. Durable, portable and waterproof.

Excellent GPS & GLONASS, BEIDOU Performance

NAVA® F70 supports not only GPS but also GLONASS and BEIDOU, with its high-sensitivity, WAAS, EGNOS, MSAS -enabled GPS receiver, NAVA® F70 locates your position quickly and precisely and maintains its location even in heavy cover and deep canyons.

Multi-purpose Handheld GPS

NAVA® F70 is an ideal rugged GPS, GLONASS & BEIDOU receiver for a large range of applications from Agriculture, Forest and Biology, Mining, Surveying, Outdoor, Nautical, Hydrographic studies, Engineering disciplines, Geographical (GIS) and Urban information systems,Municipalities and Public works directorates, Electricity Electronics, Geological studies, Sporting, National Real Estate-land survey directorates, Remote sensing, Public sector and institutions, Planning and First draft projects...

Add Maps

Worldwide basemap preloaded, and NAVA® F70 also supports City detail map, DEM map, and Raster map. User can download the raster map from open stree map, google map and other map resources.

Multiple GPS Data Formats to Share

NAVA® F70 lets you manage and export & import your waypoints, tracks and routes in multiple GPS data formats, including GPX, SHP, MIF, CSV, KML, DXF, and TXT via NAVA GPS Office software on your computer.

Technical Specifications

Physical & Performance:

Unit dimensions, WxHxD:	6.2x17.2x3.6cm
Display resolution, WxH:	240×320 pixels, QVGA
Display size, WxH:	2.8"
Display type:	Transflective TFT, 65K colors
Weight:	197g (with Lithium battery)
Battery:	2×AA (not included); Lithium Battery recommended
Battery life:	2xAA (up to 15 hours), Lithium (up to 20 hours)
Waterproof:	IPX7
High-sensitivity receiver:	Yes
Interface:	USB 2.0 and NMEA 0183 compatible

Maps & Memory:

Basemap:	Preloaded worldwide basemap
Ability to add maps:	Yes
Built-in memory:	8GB
Accepts data cards:	Yes (microSD™ card max 32GB)
Waypoints/favorites/locations:	3000
Routes:	200
Track log:	400 saved tracks, 10000 points

GPS Performance:

GPS accuracy:	3-7m (GPS, GLONASS and BEIDOU); 1-3m (GPS with SBAS)[1]

Features:

Automatic routing:	Yes (with optional mapping for detailed roads)
Electronic compass:	No
Barometric altimeter:	No
Thermometer:	No
Geocaching-friendly:	Yes
Custom maps compatible:	Yes
Outdoor GPS games:	Yes
Hunt/fish calendar:	Yes
Sun and moon information:	Yes
Area calculation:	Area and Perimeter Calculation
Custom POIs :	Yes
Google data compatible:	Yes
AVG:	Yes
Calculator:	Yes
Military grid reference system coordinates:	Support

In the box:

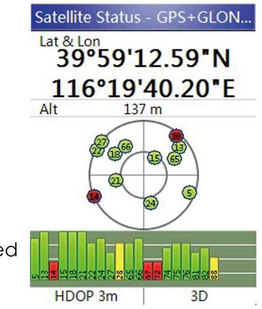
- NAVA F70 GPS device
- USB Cable
- User Manual
- Lanyard
- Inspection Card

Optional Accessories:

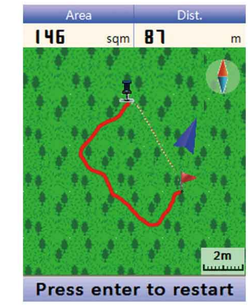
- Vehicle charger
- Micro SD card
- Carrying case
- Carabiner clip
- Lithium battery
- AC power adapter

[1] WAAS available in North America only, EGNOS available in Europe only, and MSAS available in Japan only.

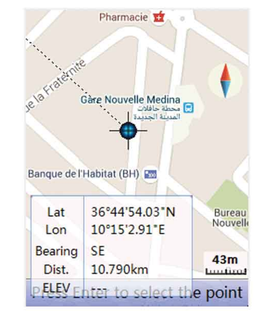
* Specifications subject to change without notice.



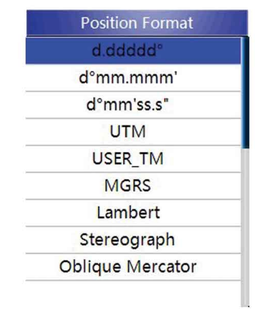
High-Sensitivity



Area Calculating



Raster Map



Position Format Setting

KEY FEATURES

- 2.8 display | QVGA, 65K color, 240x320 pixels, sunlight-readable screen
- Quad helix antenna | High-sensitivity GPS, GLONASS and BEIDOU receiver
- Floatable | Portable, Rugged and Capable of floating on the water
- Support dual battery system | Lithium and 2xAA battery
- Maps | Support Vector, DEM, Raster map (Open street map, Google map etc.)
- Built-in memory | 8GB of internal memory and a microSD card slot (max 32GB)
- Built-in sensors | Barometric altimeter, 3-axis E-compass, Thermometer

NAVA F78

See the Way

NAVA® F78 has an enhanced 2.8", 65K color, 240x320 pixels sunlight-readable display. Durable, portable and waterproof, NAVA® F78 adds a built-in 3-axis electronic compass, which shows your heading even when you're standing still, without holding it level. Also added is a barometric altimeter.

Excellent GPS, GLONASS and BEIDOU Performance

NAVA® F78 supports not only GPS but also GLONASS and BEIDOU, with its high-sensitivity, WAAS, EGNOS, MSAS -enabled GPS receiver, NAVA® F78 locates your position quickly and precisely and maintains its location even in heavy cover and deep canyons.

Multi-purpose Handheld GPS

NAVA® F78 is an ideal rugged GPS, GLONASS & BEIDOU receiver for a large range of applications from Agriculture, Forest and Biology, Mining, Surveying, Outdoor, Nautical, Hydrographic studies, Engineering disciplines, Geographical (GIS) and Urban information systems,Municipalities and Public works directorates, Electricity Electronics, Geological studies, Sporting, National Real Estate-land survey directorates, Remote sensing, Public sector and institutions, Planning and First draft projects...

Add Maps

Worldwide basemap preloaded, and NAVA® F78 also supports City detail map, DEM map, and Raster map. User can download the raster map from open stree map, google map and other map resources.

Multiple GPS Data Formats to Share

NAVA® F78 lets you manage and export & import your waypoints, tracks and routes in multiple GPS data formats, including GPX, SHP, MIF, CSV, KML, DXF, and TXT via NAVA GPS Office software on your computer.

Technical Specifications

Physical & Performance:

Unit dimensions, WxHxD:	6.2x17.2x3.6cm
Display resolution, WxH:	240×320 pixels, QVGA
Display size, WxH:	2.8"
Display type:	Transflective TFT, 65K colors
Weight:	197g (with Lithium battery)
Battery:	2×AA (not included); Lithium Battery recommended
Battery life:	2xAA (up to 15 hours), Lithium (up to 20 hours)
Waterproof:	IPX7
High-sensitivity receiver:	Yes
Interface:	USB 2.0 and NMEA 0183 compatible

Maps & Memory:

Basemap:	Preloaded worldwide basemap
Ability to add maps:	Yes
Built-in memory:	8GB
Accepts data cards:	Yes (microSD™ card max 32GB)
Waypoints/favorites/locations:	3000
Routes:	200
Track log:	400 saved tracks, 10000 points

GPS Performance:

GPS accuracy:	3-7m (GPS, GLONASS and BEIDOU); 1-3m (GPS with SBAS)[1]

Features:

Automatic routing:	Yes (with optional mapping for detailed roads)
Electronic compass:	Yes
Barometric altimeter:	Yes
Thermometer:	Yes
Geocaching-friendly:	Yes
Custom maps compatible:	Yes
Outdoor GPS games:	Yes
Hunt/fish calendar:	Yes
Sun and moon information:	Yes
Area calculation:	Area and Perimeter Calculation
Custom POIs :	Yes
Google data compatible:	Yes
AVG:	Yes
Calculator:	Yes
Military grid reference system coordinates:	Support

In the box:

- NAVA F78 GPS device
- USB Cable
- User Manual
- Lanyard
- Inspection Card

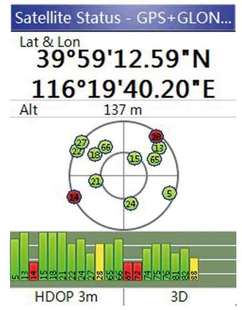
Optional Accessories:

- Vehicle charger
- Micro SD card
- Carrying case
- Carabiner clip
- Lithium battery
- AC power adapter

[1] WAAS available in North America only, EGNOS available in Europe only, and MSAS available in Japan only.

* Specifications subject to change without notice.

Main Menu



High-Sensitivity

Vector Map

3-axis E-compass

Specifications Comparison

	NAVA F30	NAVA F60	NAVA F70	NAVA F78
	GPS, GLONASS & BEIDOU	GPS, GLONASS & BEIDOU	GPS, GLONASS & BEIDOU	GPS, GLONASS & BEIDOU
Physical & Performance:				
Unit dimensions, WxHxD:	5.7 x 12.9 x 2.8cm	5.7 x 12.9 x 2.8cm	6.2 x 17.2 x 3.6cm	6.2 x 17.2 x 3.6cm
Display Size:	2.2"	2.2"	2.8"	2.8"
Weight:	113g (without battery)	113g (without battery)	197g (with Lithium battery)	197g (with Lithium battery)
Display resolution, WxH:	240×320 pixels, QVGA	240×320 pixels, QVGA	240×320 pixels, QVGA	240×320 pixels, QVGA
Display type:	Transflective TFT, 65K colors	Transflective TFT, 65K colors	Transflective TFT, 65K colors	Transflective TFT, 65K colors
Battery:	2×AA; Lithium Battery	2×AA; Lithium Battery	2×AA; Lithium Battery	2×AA; Lithium Battery
Battery life:	2xAA (up to 15 hours), Lithium (up to 20 hours)	2xAA (up to 15 hours), Lithium (up to 20 hours)	2xAA (up to 15 hours), Lithium (up to 20 hours)	2xAA (up to 15 hours), Lithium (up to 20 hours)
Waterproof:	IPX7	IPX7	IPX7	IPX7
Floatable:	no	no	Yes	Yes
High-sensitivity receiver:	Yes	Yes	Yes	Yes
Interface:	USB 2.0 & NMEA 0183 compatible	USB 2.0 & NMEA 0183 compatible	USB 2.0 & NMEA 0183 compatible	USB 2.0 & NMEA 0183 compatible
Maps & Memory:				
Basemap:	Yes (Preload Worldwide basemap)	Yes (Preload Worldwide basemap)	Yes (Preload Worldwide basemap)	Yes (Preload Worldwide basemap)
Ability to add maps:	Yes (Raster map, Vector map & DEM map)	Yes (Raster map, Vector map & DEM map)	Yes (Raster map, Vector map & DEM map)	Yes (Raster map, Vector map & DEM map)
Built-in memory:	8GB	8GB	8GB	8GB
Accepts data cards:	Yes (microSD™ card max 32G)	Yes (microSD™ card max 32G)	Yes (microSD™ card max 32G)	Yes (microSD™ card max 32G)
Waypoints/favorites/locations:	3000	3000	3000	3000
Routes:	200	200	200	200
Track log:	400 saved tracks, 10000 points	400 saved tracks, 10000 points	400 saved tracks, 10000 points	400 saved tracks, 10000 points
Features:				
Automatic routing:	Yes (with optional mapping for detailed roads)	Yes (with optional mapping for detailed roads)	Yes (with optional mapping for detailed roads)	Yes (with optional mapping for detailed roads)
Electronic compass:	no	Yes	no	Yes
Barometric altimeter:	no	Yes	no	Yes
Thermometer:	no	Yes	no	Yes
Camera:	no	no	no	no
Geocaching-friendly:	Yes	Yes	Yes	Yes
Custom maps compatible:	Yes	Yes	Yes	Yes
Outdoor GPS games:	Yes	Yes	Yes	Yes
Hunt/fish calendar:	Yes	Yes	Yes	Yes
Sun and moon information:	Yes	Yes	Yes	Yes
Area calculation:	Yes	Yes	Yes	Yes
Custom POIs :	Yes	Yes	Yes	Yes

Multi-purpose Handheld GPS

NAVA® series handheld GPS is an ideal rugged GPS, GLONASS and BEIDOU receiver for a large of applications from outdoor, fishing and hunting, hiking and trekking, agriculture, forestry, mining, surveying, voyage, natural resources, animal husbandry, emergency response & fire protection, electric power, military, water conservancy and environmental protection.

- Agriculture: General soil survey, plant protection, grassland fire prevention and management, agricultural regionalization, crop yield assessment, tobacco planting regionalization, fishery administration management, standard high quality farmland construction, soil testing formula fertilization, agricultural environmental monitoring

- Forestry: Forest fire prevention, natural forest protection, forest tenure reform, forestry survey, resource monitoring, wild fauna and flora protection, grain for green program, classified management, afforestation verification, wetland protection, biological early warning, pest and disease prevention & control

- Water Conservancy: Engineering geology and geophysical geochemical exploration, agricultural water management, river basin survey and management, water resource monitoring, flood control and drought relief

- Emergency Fire fighting: Forest fire fighting, urban fire fighting, emergency communication

- Land Resources: Second national land survey verification, mineral resource verification, land law-enforcement monitoring, right confirmation for various land-use types, geological-survey, geological-disaster emergency system construction, cadastral management, cultivated land protection

- Electric Power: Tower positioning and basic data collection, line inspection and operation & maintenance

- Telecommunications: Tower positioning, survey of manhole covers and other resources, general line survey, line inspection & maintenance, network optimization

- Others: Meteorology, earthquake, oceanography, petroleum, healthcare, civil affairs, universities & colleges, municipal administration, urban construction, scientific research institutes, archaeology, insurance, statistics, radio and television

NAVA® C85

An ideal rugged GPS touchscreen handheld with android system, multi-GNSS, essential navigation features, built-in camera, and full-featured data collection.

General information:		Functions:	
Dual SIM:	Yes	Message:	SMS, MMS
OS:	Android 12	Ringtone:	Yes
Platform	MTK	Ringtone Alert type:	MIDI / Mp3
Chipset:	MTK6761, Quad-core	Browser:	Yes
RAM + ROM:	32GB ROM + 3GB RAM	Call Recorder:	Yes
Network:	TD-LTE/FDD-LTE/WCDMA/GSM	Hand-free:	Yes
Dimension:	144.3 * 65 * 21.5mm	Light sensor:	Yes
Weight:	TBD	Approximative sensor:	Yes
Language:	English / Multi-languages	E-compass:	Yes
Colors:	Black-red	Gyroscope:	Yes
IP rating:	IP68	Extra functions:	
Display:		USB OTG support	Yes
Type:	TFT	Hardware buttons:	PTT, Fn1, Fn2
Size:	4.0 inches	Touch buttons:	Single group, record, up and down, voice broadcast, power on/off
Resolution:	640 * 1136 pixels		
Multitouch:	Yes		
LCD backlight:	Yes	Others:	Depend on application
Connection:		Battery:	
GPRS:	Yes	Type:	Li-ion
Wi-Fi :	Yes, 2.4GHz/5GHz WIFI	Capacity:	5000mAh
Wi-Fi hotspot:	Yes	Talking time:	TBD
3G:	Yes	Standby time:	TBD
4G:	Yes	Earphone:	
5G:	No	Type:	NO
NFC:	Yes	USB cable & Charger:	
Fingerprint:	No	USB cable:	Yes, Type-C
Bluetooth:	Yes	Charger:	Yes, 5V 2A
USB (Version/ USB charge / Mass storage (PC connect)	Yes	Accessories:	
		gift box:	x1
Navigation	Multi-GNSS	user manual:	x1
Camera (rear):	13.0MP	warranty card:	x1
Flash:	Yes		
Camera (front):	5.0MP		