

## HiPer II SPECIFICATIONS

### TRACKING CAPABILITIES

|                                 |                        |                                                                         |
|---------------------------------|------------------------|-------------------------------------------------------------------------|
| Number of Channels <sup>1</sup> | 72 Universal Channels  |                                                                         |
| Tracked Signals                 | GPS<br>GLONASS<br>SBAS | L1 CA, L1/L2 P-code, L2C<br>L1/L2 CA, L1/L2 P-code<br>WAAS, EGNOS, MSAS |

### POSITIONING ACCURACY<sup>2</sup>

|             |                  |                                    |                                  |
|-------------|------------------|------------------------------------|----------------------------------|
| Static      | L1+L2<br>L1 only | H: 3mm + 0.5ppm<br>H: 3mm + 0.8ppm | V: 5mm + 0.5ppm<br>V: 4mm + 1ppm |
| Fast Static | L1+L2            | H: 3mm + 0.5ppm                    | V: 5mm + 0.5ppm                  |
| Kinematic   | L1+L2            | H: 10mm + 1ppm                     | V: 15mm + 1ppm                   |

### DGPS

<0.5m

### USER INTERFACE

|               |                                                                          |
|---------------|--------------------------------------------------------------------------|
| Operation     | Single-button operation for power, receiver reset, memory initialization |
| Display Panel | 22 LED status indicators                                                 |

### DATA MANAGEMENT

|                    |                                                              |
|--------------------|--------------------------------------------------------------|
| Memory             | Multi-lingual voice messages for receiver status information |
| Data Format        | RTCM SC104 2.1/2.2/2.3/3.0/3.1, CMR, CMR+, NMEA, TPS         |
| Update/Output Rate | 1Hz, 5Hz, 10Hz, 20Hz options                                 |
| Communication Port | RS-232C (4,800 to 115,200bps)                                |

### WIRELESS COMMUNICATION

|                              |                                 |
|------------------------------|---------------------------------|
| Bluetooth <sup>®</sup> Modem | V2.1 + EDR, Class 1, 115,200bps |
|------------------------------|---------------------------------|

### ENVIRONMENTAL

|                       |                                                                                                                                                |                             |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Dust/Water Protection | IP67 (IEC 60529:2001) at closing all connector caps<br>Protected against temporary immersion up to 1m (3.3ft.) depth<br>2m (6.56ft.) pole drop |                             |
| Shock                 | HiPer II receiver with battery                                                                                                                 |                             |
| Operating Temperature | -40 to +149°F (-40 to +65°C)                                                                                                                   | -4 to +149°F (-20 to +65°C) |
| Storage Temperature   | -49 to +158°F (-45 to +70°C)                                                                                                                   |                             |
| Humidity              | 100%, condensing                                                                                                                               |                             |

### PHYSICAL

|           |                                                               |                  |
|-----------|---------------------------------------------------------------|------------------|
| Enclosure | Magnesium alloy housing                                       |                  |
| Size      | 7.24" Diameter x 3.74" Height (38.4mm Diameter x 95mm Height) |                  |
| Weight    | HiPer II receiver                                             | 2.45 lb. (1.1kg) |
|           | BDC58                                                         | 6.9 oz. (195g)   |

### POWER SUPPLY

|                               |                                                               |                                       |
|-------------------------------|---------------------------------------------------------------|---------------------------------------|
| Standard Battery BDC58        | Detachable, Li-ion rechargeable battery, 7.2V, 4.3Ah          |                                       |
| Operating Time at 68°F (20°C) | >7.5 hours in static mode w/Bluetooth <sup>®</sup> connection |                                       |
| Charger CDC68                 | Recharging time                                               | Approx. 4 hours at 77°F (25°C)        |
|                               | Input voltage                                                 | 100 to 240V AC (50/60Hz) <sup>3</sup> |
| External Power Input Voltage  | 6.7 to 18V DC                                                 |                                       |

<sup>1</sup> Number of channels and tracked signals vary according to receiver configuration.

<sup>2</sup> RMS values. Accuracy depends on the number of satellites used, obstructions, satellite geometry (DOP), occupation time, multipath effects, atmospheric conditions, baseline length, survey procedures and data quality.

<sup>3</sup> 1 to Hz standard. Higher rates available as options.

<sup>4</sup> Use with an appropriate AC power table.

# HiPer II

The Next Generation Dual Frequency GNSS Receiver



- Smaller. Lighter. Faster. More Affordable.
- Integrated GPS+GLONASS Receiver
- Rugged, Lightweight, Magnesium Alloy Construction
- Cable-free Bluetooth<sup>®</sup> Wireless Operation
- Bright, easy-to-read LED Panel
- Voice Messages for Receiver Status
- SD/SDHC Memory Card Slot
- Removable Li-ion Battery



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Your local Authorized Topcon dealer is:



## HiPer II The Next Generation Dual Frequency GNSS Receiver

### Completely Integrated, Advanced GNSS Solution

In the early 2000's, Topcon revolutionized the GNSS positioning technology with the HiPer series of receivers. Its fully integrated design gave the highest agility to rovers ahead of its time, by eliminating extra equipment such as backpacks and cables.

Now Topcon raises the industry standard once again by presenting the next-generation of the world's most popular receiver system – the HiPer II. Smaller. Lighter. Faster. More Affordable.

The HiPer II receiver is designed on these clear-cut concepts. This state-of-the-art receiver not only offers further enhanced agility, but also increases receiver performance and user-friendliness as well as the fully customizable structure providing our customers with the maximum flexibility to choose the system options they require.

### GPS+ Dual Frequency Signal Tracking

Topcon's industry-leading GPS+GLONASS, dual-frequency signal tracking technology offers superior positioning capability over the GPS only receivers. It makes a difference where sky visibility is limited such as in urban canyons or in woodlands, near tall fences or other blockages.

### Voice Messages for Receiver Status

Multi-lingual, clear-tone voice messages notify the users of critical receiver information and status such as satellite signal interruption, low battery, low memory and more. This feature improves your efficiency by providing information without having to look at the LED display or controller screen.

### Tailor the System to Your Own Requirements

Fully customizable receiver functionality and a wide variety of options provide the maximum flexibility to tailor the HiPer II system to your own requirements.

- GPS or GPS+GLONASS
- L1 or L1/L2
- Static or Kinematic
- Choice of:
  - Memory Devices
  - Field Controllers
  - Software Solutions

## Smaller. Lighter. Faster. More Affordable. Compact, Lightweight, Cable-free Solutions for All GNSS Positioning Applications.



External power port  
Serial port



Speaker



Tape measure hook

### Choice of Field Controller Solutions

Topcon not only provides the greatest flexibility with the HiPer II receiver design, but also provides you with the choice of field controller. Choose from the small, lightweight FC-25, FC-250, FC-236 or the ultrarugged, full-keyboard model FC-2500 for the ultimate field performance.



FC-25



FC-250



FC-236



FC-2500



### Durability that Withstands the Severest Condition

The magnesium alloy housing provides the maximum ruggedness for the compact and lightweight receiver body. With the IP67 environmental rating, the HiPer II can handle almost any field conditions.



### Long-Life Li-ion Battery

Topcon's HiPer II comes standard with a modern design long-life Lithium Ion battery that is located safely behind a sealed battery cover.

### Data Storage with SD or SDHC Cards

A large volume of static observation data from long term survey projects, long sessions and displacement monitoring can be stored onto the popular SD cards or SDHC cards with 4GB or larger capacity.

### TopSURV 8 Field Controller Software

The easy-to-navigate, intuitive user interface of TopSURV software offers all users its full functionality with the shortest learning curve. TopSURV supports all surveying tasks including topo data collection, as-built survey and stakeout.



### Topcon Tools Complete GNSS Data Management & Post Processing Software

The powerful Topcon Tools software suite completes the full Topcon field-to-finish GNSS solution. With comprehensive data manipulation, processing, and analysis, Topcon Tools unlocks the full power of the Topcon GNSS systems solution.

### HiPer II Standard Configuration

- HiPer II GNSS Receiver
- BDC58 Li-ion battery x2
- CDC68 charger
- Serial cable
- 5/8" conversion plug
- User's manual (CD-ROM)
- Carrying case

### Optional Accessories

- Bipod
- Bracket for FC-250
- 5.3m tape measure
- Type 3WP Prism adapter
- Type 2 Base

