### APPENDIX 2: LAYOUT INFORMATION USED FOR 3D MODEL CONSTRUCTION

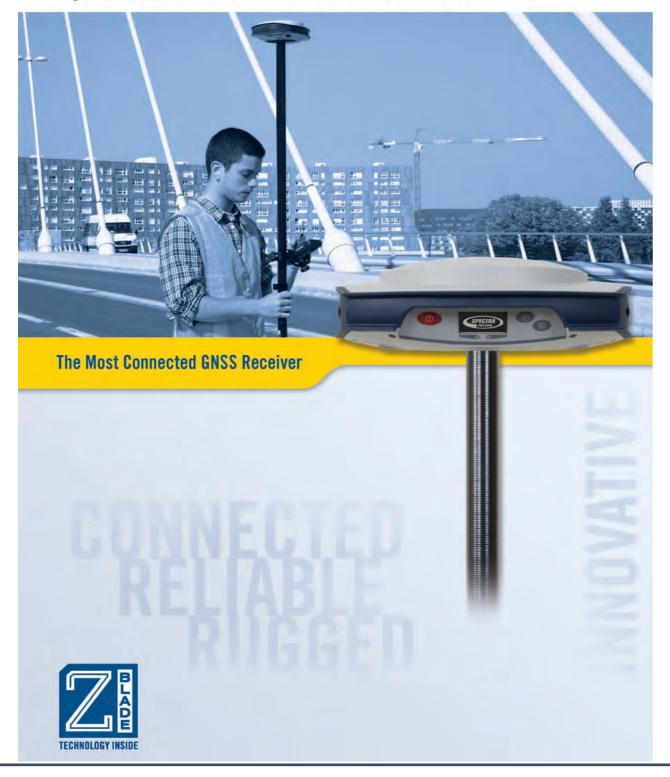








# **Spectra Precision SP80 GNSS Receiver**





#### SP80 GNSS Receiver

The Spectra Precision SP80 is a next generation GNSS receiver that combines decades of GNSS RTK technology with revolutionary new GNSS processing. Featuring the new 240-channel "6G" chipset, the SP80 system is optimized for tracking and processing signals from all GNSS constellations.

In addition, SP80 is the most connected GNSS receiver in the industry. It is the first to offer a unique combination of integrated 3.5G cellular, Wi-Fi and UHF communications with SMS, email and anti-theft features.

These powerful capabilities, packaged in an ultra-rugged and cable-free housing with unlimited operation time (hot-swappable batteries), make SP80 an extremely versatile turnkey solution.

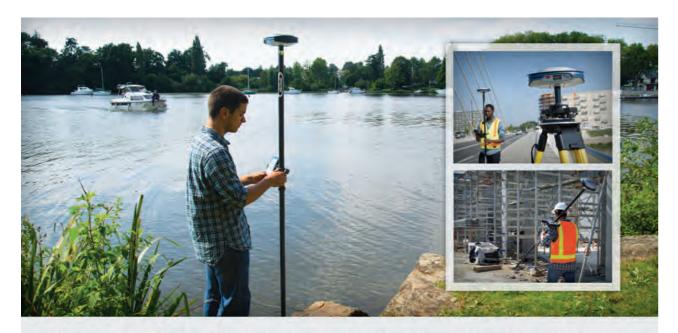
### **Key Features**

- New 240-channel 6G ASIC
- Z-Blade GNSS-centric
- 3.5G cellular modemInternal TRx UHF radio
- Built-in WiFi communication
- SMS and e-mail alerts
- Anti-theft protectionHot-swappable batteries

Patented inside-the-rod mounted UHF antenna design

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#### Unique 6G GNSS-centric Technology

Exclusive Z-Blade processing technology running on a next-generation Spectra Precision 240-channel 6G ASIC fully utilizes all 6 GNSS systems: GPS, GLONASS, BeiDou, Galileo, QZSS and SBAS. The unique GNSS-centric capability optimally combines GNSS signals without dependency on any specific GNSS system; this allows SP80 to operate in GPS-only, GLONASS-only or BeiDou-only mode if needed. In addition, SP80 supports the recently approved RTCM 3.2 Multiple Signal Messages (MSM), a standardized definition for broadcasting all GNSS signals from space, regardless of their constellation. This protects the surveyor's investment well into the future by providing superior performance and improved productivity as new signals become available.

#### SMS and Email Messaging

SP80 has a unique combination of communication technologies including an integrated 3.5G GSM/UMTS modem, Bluetooth and Wi-Fi connectivity, and optional internal UHF transmit radio. The cellular modem may be used for SMS (text message) and e-mail alerts as well as regular Internet or VRS connectivity. Likewise, SP80 can use all available RTK correction sources and connect to the Internet from the field using WiFi hotspots, where available. The internal UHF transmit/receive radio allows for quick and easy setup as a local base station. This saves time and increases the surveyor's efficiency.



#### **Anti-Theft Protection**

A unique anti-theft technology secures SP80 when installed as a field base station in remote or public places and can detect if the product is disturbed, moved or stolen. This technology allows the

surveyor to lock the device to a specific location and make it unusable if the device is moved elsewhere. In this case, SP80 will generate an audio alert and show an alert message on its display. Furthermore, an SMS or e-mail will be sent to the surveyor's mobile phone or computer and provides the receiver's current coordinates allowing tracking of its position and facilitating recovery of the receiver. SP80's anti-theft technology provides surveyors with remote security and peace of mind.

### The Most Powerful Tool for Reliable Field Use

The SP80's rugged housing, created by Spectra Precision's engineering design lab in Germany, incorporates a host of practical innovations. Dual hot-swappable batteries can be easily exchanged in the field as a one hand operation for an interruption-free working day, ensuring surveyors remain productive until the job is done. The impact-resistant glass-fiber reinforced casing, designed to withstand 2m pole drops and waterproof to IP67, ensures that SP80 can handle the toughest outdoor conditions. The patented UHF antenna, set inside the rugged carbon fiber rod, extends the range of RTK radio performance at the same time as armoring protection. The sunlight-readable display offers instant access to key information like the number of satellites, RTK status, battery charge and available memory. These powerful design features combine to make SP80 the most capable, most reliable GNSS receiver, backed by a comprehensive standard 2 year warranty.



### The Spectra Precision Experience

With the most advanced and rugged field data collectors from Spectra Precision, surveyors get maximum productivity and reliability every day. Spectra Precision Survey Pro or FAST Survey software is specifically tailored for the SP80 GNSS receiver providing easy-to-use, yet powerful GNSS workflows, letting the surveyor concentrate on getting the job done. Spectra

Precision Survey Office Software provides a complete office suite for post-processing GNSS data and adjusting survey data, as well as exporting the processed results directly back to the field or to engineering design software packages. Combined with Spectra Precision field and office software, SP80 is a very powerful and complete solution.

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## APPENDIX 4: CAMERA EQUIPMENT (CANON 5D MARK III)











































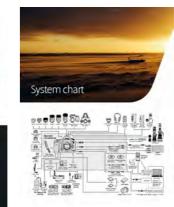








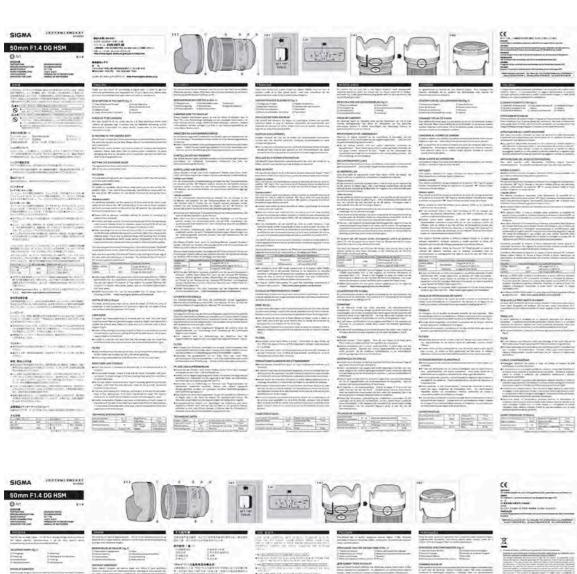






### APPENDIX 5: CAMERA EQUIPMENT (SIGMA 50mm f/1.4)







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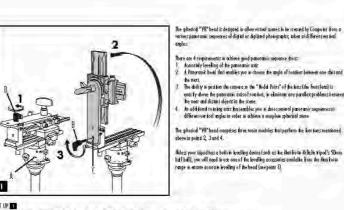
### **APPENDIX 6: CAMERA EQUIPMENT (MANFROTTO 303 SPH)**

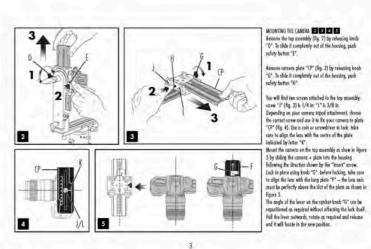






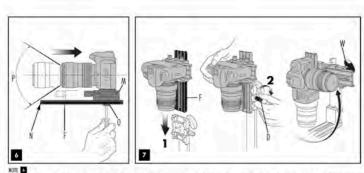
The spherical "VIX" head comprises have main modules hall perform the functions mentioned, above in points 2, 3 and 4.





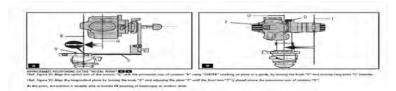
Remove the top assembly (fig. 7) by releating knot "D". To slide it completely out of the housing, push safety botton "E".

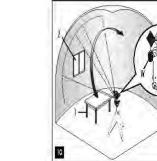
Remove comess plate "(P" (lig. 3) by releasing knob "G". To slide it completely out of the housing, push rafely button "H".



Horn of the basesine "M" relative to the long plate "F" will need to be objected: loosen screw "O" to slide the browing. The ideal position is with the comera body as for book on the plate as it can go before the front edge "N" of the long plate "F" becomes visible in the camera's field of view "P".

MOUNT THE CAMERA ON THE HEAD Mount the whole top assembly a camera on the head as shown in figure 7 by sliding the long plate "F" into its lousing and locking (I by screwing knot "D", then ansorew knot "M" and move the camera on the vertical plane.

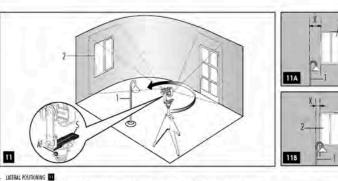




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Once the right position is achieved it is VERY USEFUL to memorise it by nating the position of the plate "5" on the index on the graduated scale.

Payed paramics are a distally yelling speller paramics ejectes taken at different angles from the historial. But you will need to diseast a market between the product program of the least you will be a complete the tables design in the angle of the least you will be using. Before sturing with the pressure is equivary, about the initial vertical page using the reveal scale "2" (fig. 12). Usonal before the market of market of the second scale "2" (fig. 12). Usonal before the market of the second scale "2" if it remove the market of the second scale "2" (fig. 12). Usonal before the market of the second scale "2" (fig. 12). It is not to second scale the second scale "2" (fig. 12). It is not second scale that the second scale is not a second scale to second scale that the second scale is not second scale to second scale that the second scale is not second scale to second scale that the second s

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- \*Screw knob "AG" into the selected setting holes "AA".
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  \*Rebess locking lever "196" and norther comes or top jular "12" for the perion of the first shirt.

  \*Rivil the comes in paction and norther the comes or top jular "12" out the first "dick stap" is readed, then lock lever "18".

  \*Rivil the first shart and then north the comes or the sear" dick stap" without releasing "18" and take the excision.

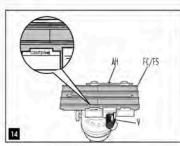
  \*Continue the process and the start position is readed.

  \*Date you have completed the first complete provincial species, you can start in the other possyramic sequences needed to one the sphere change the sential stagle using knab "16" and norm scale "2", and reject the operatives described shows for each full respecte.

The lase of the bead "ND" lass produced scale markings from 0 to 300° and a reference index "AD" on the cannol harm! "AD". His it to be used to see angles not no the chain, In use the bead in this way, milack lands "AD" to distengage the "dick stop," during roomine of carnol harm! "AD" and use the lacking hards "AD" to lack the position during showing.

NOTE: The angle of the lever on the nather hand "AB" can be repositioned as required without effecting the look itself. Pull the lever orwards, nature as required and release and it will lease in the new position.

ADDITIONAL PLATES TO



If you have a very compact common we support you is one the short plate. "SL" (lig. 13) and "R." (supplied with the head) finited of the tree long plates "F" and "S" in order to reduce some and weight of the system.

To replace the plate "F", places refer to fig. 6 and insures some "O".

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