



ICS— The Infrastructure Coordinator solution- A1

ICS-A1

The integrated high accuracy GIS application platform including Topcon Hyper SR and high accuracy Total station solution

TopoLynx® topoXplore is a powerful easy to use Desktop and Mobile GIS software



ES-60 Series

With the functionality of many high-end robotic total stations, our ES series is full-featured and ready to tackle modern job sites.

- Long return of prism distance measurements, out to 4,000m
- TSshield™ web services for streamlined maintenance and security
- Topcon's LongLink™ communication at 300m
- Rugged IP66 environmental rating
- Provides 36 hours of battery life
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Hyper-SR

Advanced, ultra-compact and productive
From decades of Topcon GNSS evolution, the HiPer SR is simplified for all the right reasons.



High-Accuracy

With GNSS RTK functionality, the Sirius Pro delivers 2-5 cm accuracy without ground control points.

Efficient

Save up to 50% of project time by utilizing integrated GNSS with precision timing technology. This determines the exact location that each photo is taken, eliminating the need to set ground control.

Upgrade Easily

Our Sirius Basic device delivers all the features of professional survey tools. Add an antenna and a simple software upgrade to the Sirius Basic to get the same RTK functionality as the Topcon Sirius Pro.



ES- Series

Measurement that exceeds expectations

GENERAL

Display

Dual backlit LCD
(ES-107 Single Display)

Battery Operation

Up to 36 hours

Wireless Connection

Bluetooth® Class 1

Operating Temperature*

-20°C to +60°C*

**Special Arctic version available*

(-30 to +50°C)

CERTIFICATIONS AND STANDARDS

Dust/Water Protection

IP66

ANGLE MEASUREMENT

Min. Res/Accuracy

ES-101 0.5"/1"

ES-102 1"/2"

ES-63 1"/3"

ES-65 1"/5"

ES-67 1"/7"

Compensation

Dual-axis compensator

DISTANCE

MEASUREMENT

Prism EDM Range

4000m

(ES-107 3000m)

Measuring Time

Fine: 0.9 sec

Rapid: 0.7 sec

Tracking: 0.3 sec

COMMUNICATIONS

General

LongLink™

Bluetooth® Class 1

USB 2.0 Slot

(Host + Slave)

RS-232C Serial

PRIMARY FEATURES

World's first - T5shield™ system

500m non-prism range

Unique IACS angle encoder system (1" & 2")

Quick & easy-to-use trigger button

Tangent Lock - Securely holds your angle in place.

Laser plummet

300m range LongLink™ functionality

Easy access, environmentally protected USB 2.0 slot

Super long battery life - up to 36 hours

Highly visible Green & Red LED guidelights

Exclusive "STAR-KEY" functionality

Electronic leveling system

Dual, graphic backlit LCD display & keyboard

HiPer SR

Advanced, ultra-compact and productive

Daily setup routines are made easy through the HiPer SR's LongLink intelligence feature. More than just a wireless Bluetooth connection, LongLink serves to automatically connect multiple HiPer SR rovers to your mobile base. Just power them on and let the system do the rest. Combine your Topcon HiPer SR receiver with a robotic total station system, to create a Hybrid solution ready for any environment.

This entry-level GNSS solution is ideal for interference-free, short-range, wireless communication between base and rover. With an optional, internal, dual-SIM cellular modem the HiPer SR can also be used as a MAGNET Relay mobile base, adding flexibility to your portfolio for your various project scenarios.

- Capable of tracking GPS and GLONASS constellations
- Universal Tracking Channels capable of all-in-view tracking
- Hybrid Positioning ready
- Signal scrubbing Fence Antenna® to provide ultimate signal lock



Application Perfect for

Land Surveying
Topography & As-Built
Construction Survey/Layout
Grade Management
Site Work
Landfill
Mapping
Utilities
Forensics
Forestry



GNSS TRACKING

Number of Channels

226-Channel Vanguard Technology™
with Universal Tracking Channels

Signals Tracked

GPS, GLONASS, SBAS, QZSS

Antenna Type

Fence Antenna

ACCURACY

Accuracy

Static/Fast Static:

H: 3.0 mm + 0.4 ppm

V: 5.0 mm + 0.6 ppm

Precision Static:

H: 3.0 mm + 0.1 ppm

V: 3.5 mm + 0.4 ppm

RTK (L1+L2):

H: 10 mm + 0.8 ppm

V: 15 mm + 1.0 ppm

DGPS

H: 0.4 m, V: 0.6 m

SBAS

H: 1.0 m, V: 1.5 m

**See brochure for more information.*

COMMUNICATIONS

I/O Communications

Bluetooth®, Serial, USB

Cellular

Integrated HSPA+/CDMA

MEMORY

Memory

2GB internal

Real Time Data Output

TPS, RTCM SC104 v2.x, 3.x and MSM,
CMR/CMR+

ASCII output

NMEA 0183 version 2.x, 3.x and 4.x

PHYSICAL AND ENVIRONMENTAL

Dimensions

W: 5.9" (150 mm)

D: 5.9" (150 mm)

H: 2.5" (64 mm)

Weight

1.87 lbs. (850g) – Basic

2.04 lbs. (925g) – Cellular

Operating Temperature*

-20°C to 65°C

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-40°C to 65°C

Storage Temperature

-40°C to 70°C

**With internal batteries*

***With external power*

CERTIFICATIONS AND STANDARDS

Dust/Water Protection

IP67

POWER AND ELECTRICAL

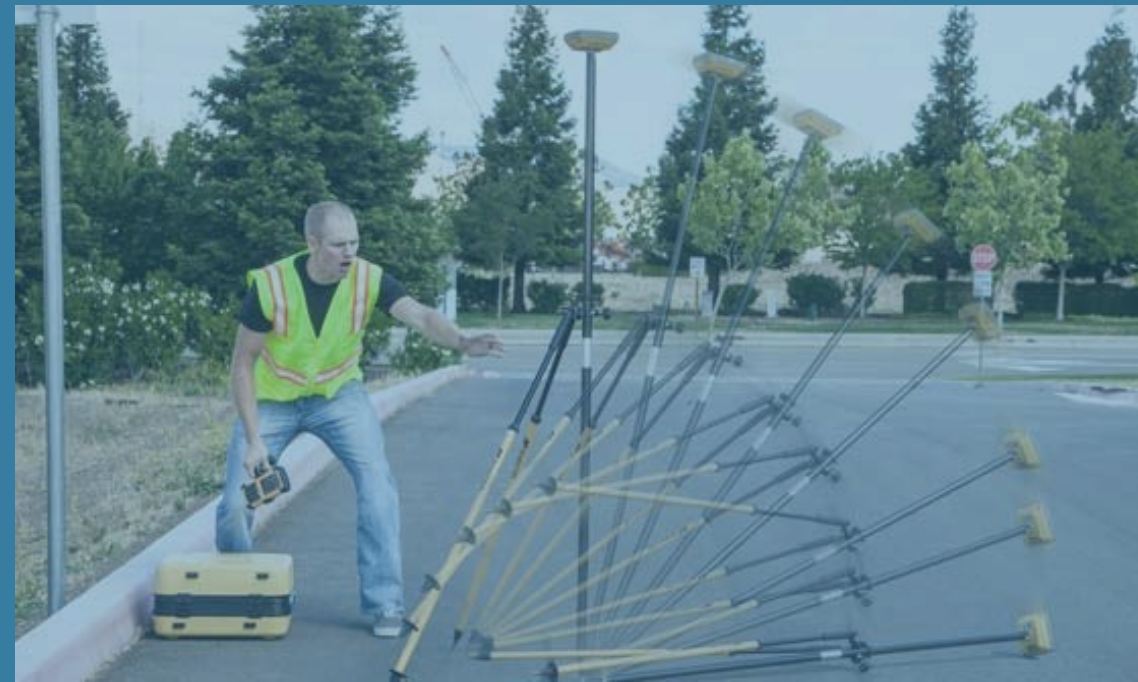
External Power Connector

Yes

PERFORMANCE

Operation Time

Up to 20 hours







Topo Lynx

topoXplore



topoXplore



Prepare your fieldwork by
querying your geodatabase



Collect geospatial data
and attributes in the field

Mobile GIS data capture

topoXplore is a mobile application for location based data collection, surveying and mapping – with processing intelligence. It is equally suitable for GIS professionals and less trained staff and can be used as integral part of an enterprise-wide GIS infrastructure or stand-alone data capture tool. The software runs on Windows Mobile based devices and customers get a free desktop program for office use.

topoXplore offers users the following main benefits and unique features

- Efficient and simple field data capture workflow
 - Automatization tools to maximize productivity and data quality
 - Fast map drawing algorithms to handle large amount of data
 - Built-in support for all coordinate systems and projections
 - More precise positioning by use of NTRIP, RTK corrections and post processing of raw data
 - Advanced topological features
 - Thematic mapping by descriptive data fields and code lists
 - New look and feel: redesigned user interface with more visible map content
 - High-resolution icons and scalable user interface for tablet users
 - Simplified toolbar with the most frequently used tools only
 - New Settings panel for easier access to each setting
 - Redesigned Survey and GNSS panel for faster fieldwork
 - Support of Web Feature Service (WFS) standard: ability to download and upload vector features from online services
 - Access online services (WMS, WFS, TMS, NTRIP) through proxy services
 - Enhanced WMS map caching for offline use
 - Improved navigation, stakeout and CoGo tools
 - Ability to set up different parallel NTRIP profiles and to switch between them
 - Vertices of vector objects can be displayed and this function can be turned on/off during field data collection
 - Audible signals indicating the type of GNSS solution

