

2024

## Pocket-3D v15.2.p3 Release

### Updates...

V15.2.p3 is a patch version of Pocket3D for Android Windows & iOS platform. The Android version is the starting point of the MC-Mobile family. This version is specifically designed to correct some existing problems in V15.2.2 and improve design creations, modifications and workflow.

#### Improvements and Updates:

- DXF/DWG import
- Feet & inches unit input
- Stakeout (zoom and selection) issues
- Satel radio configuration
- mmGPS calibration & multiple transmitters
- Scalefactor in resection routine

### Supported devices

#### Windows (v15.2.3)

- FC-5000 / SHC-5000
- FC-6000 / SHC-6000
- FC-6400
- FT-100
- Windows PC, tablets, ...

#### Android (v15.2.3)

- FC-6000A / SHC-600A
- Juniper CT8x2
- FC-600A
- Android phones, tablets ...

#### iOS (v15.2.3)

- iPhones, iPads
- iOS >=V14



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## Latest recommended SW and FW

Even though P3D supports all SW and FW version, we recommend using the latest versions as of now:

- **SW\_MC-MOBILE\_RVR\_AM\_v15.2.3\_ANDROID.apk** for Android – CT8x2, FC6000A (Android OS >V9)
- **SW\_MC-MOBILE\_RVR\_AM\_v15.2.3\_ANDROID.apk** for Android – FC600 (Android OS <V9)
- **SW\_POCKET-3D\_RVR\_AM\_v15.2.3\_WINDOWS.zip** for Windows

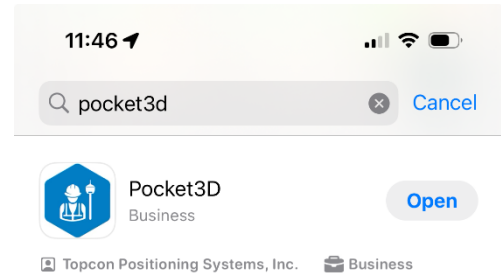
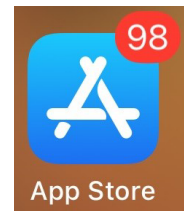
- **GR-i3 FW 2.86**
- **GNSS FW 5.5.2**
- **LN-150:** Optical Firmware - LN-150 VERSION 16
- **GT 1200:** Optical Firmware - 1.50EN\_04 (BASIC)
- **GT 1000:** Optical Firmware - 1.09EN\_11 (BASIC)
- **PS:** Optical Firmware - 1.28EN\_10

# New Features

## **iOS Support: Pocket-3D for iPhones and iPads**

For the first time Pocket-3D can now also run on iOS devices. Apart from Windows and Android platforms, you can now install Pocket-3D on your iPhone or iPad.

Simply go to the “App Store” and type in Pocket3D. You will find the app will show up in the list. Click on install next to it and Pocket3D will download and install for free. If you want to connect to a Topcon device (LN150, GRI3, HiPer HR), you will first need to get a Pocket3D oaf from your dealer or Topcon representative.



# Bugfixes and Improvements

## **DXF/ DWG import units**

When importing dxf/dwg files, Pocket3D V15.2.3 will now take the current units into account. Earlier versions (15.2) would always import in meters. This latest version now, takes whatever unit is currently selected inside Pocket3D under View->Display options ->Display units, just like V12 did.

## **Feet & inches data input**

Fixed a problem where the user was not able to enter in a new point in feet & inches .

When setting up a totalstation using “known station and azimuth” with the units set to US survey feet, the prism height would ask for feet & inches units instead.

## **Satel radio configuration**

When configuring the Satel TR4+ radio settings (inside a HiPerVR), the information are now being saved even when power cycling the receiver / radio.

## **Multiple mmGPS bugfixes**

Fixed multiple bugs when downloading or uploading mmGPS transmitter calibration data. You will now be able to successfully upload calibration results and see the update calibration date in the list.

Downloading calibration data of a second and third mmGPS transmitter will no longer overwrite the first calibration.

Inside the mmGPS receiver setup page, V15.2.3 will now default to the correct serial port A for our latest GPS receivers (HR/VR).

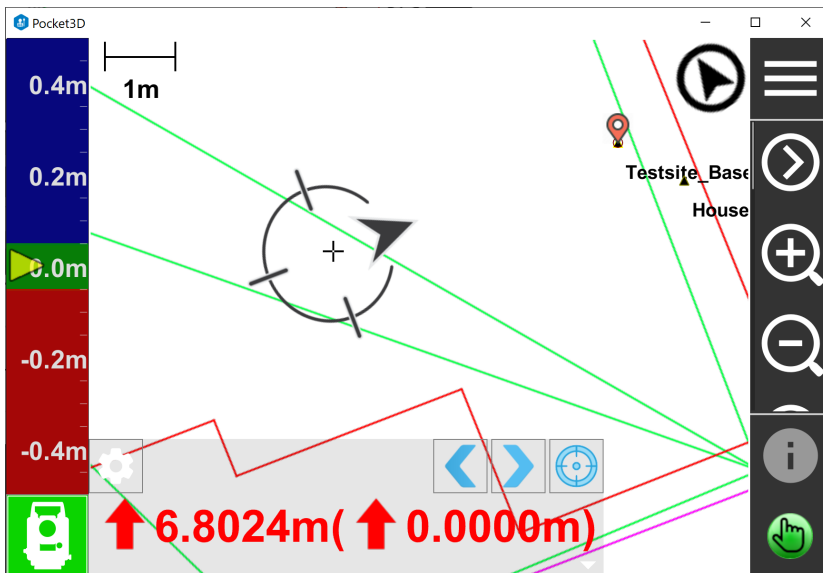
Please note, the option to set the mmGPS receiver setup to use “all/any” transmitter is currently not working in GPS firmware V5.5. We recommend to select a specific channel 1-4 in this case.

### Stakeout polyline -> Zoom / AutoZoom

When stakeout out a polyline or point, the “Autozoom” feature was by default enabled. Auto-zoom had a problem where it would not let the user zoom manually. Both of those items have been fixed now.

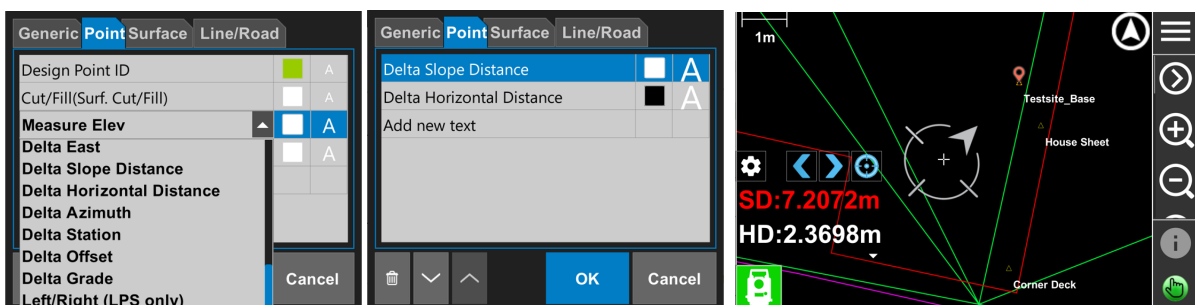
### Cut/Fill arrow colour customizable

The colour of the cut/fill arrow would always default to black/white. Now it will take the user defined colour from inside the site text config dialog.



### Stakeout: Added delta HD & delta SD

The user can now choose to display the SD (slope distance) and/or HD (horizontal distance) when stakeout out a point inside the info site text panel.



## Stakeout polyline selection

When selecting a polyline to stakeout, Pocket3D V15.2.3 will now warn you if only a segment is selected and ask, if you want to stake out the entire polyline or just the segment. The polyline will also already be selected.

On the contrary, if there're are multiple polylines selected (on top of each other), the info shortcut on the bottom right corner, will give you an indication on how many items are selected in total, by displaying a little blue number – see below “3”. Simply click on the info button and the details dialog will show you exactly which items are selected. Select the items that you don't want selected and click on <Deselect>.



Polyline	Station	Elevation	
Layer: Batters			
Segments	Layer	Status	Cr
8	Batters	Closed	11/23/2
4	Batters	Closed	11/23/2
4	Batters	Closed	11/23/2
4	Batters	Closed	11/23/2
22	Batters		11/28/2
8	Batters	Closed	11/28/2
16	Batters		11/29/2
15	Batters	Closed	11/29/2
9	Batters	Closed	11/29/2

Polylines: (3)					
Layer	#Vertices	Length	Area	Azimuth	Grade
+ Batters	15	177.3151m	5615.63ft <sup>2</sup>	220°17'13.0348"	0.00%
+ Batters	16	150.8992m		181°17'55.3236"	0.73%
+ Batters	9	108.6468m	1877.96ft <sup>2</sup>	14°28'21.2416"	0.00%

Save Deselect Close

## Scale factor in resection routine

When setting up a totalstation via resection, V15.2.3 is now applying the user defined scale factor that got entered under Data -> Control -> Grid page. The scale factor was already correctly applied to “Know Station and Azimuth” and also to “Known Station and Backsight”.

## GT600 / GT1200 team authorisation

Resolved the issue where Pocket3D was not able to connect to a GT600/GT1200 without TEAMS oaf.

## HiPer SR: long link base setup and oaf issue

Pocket3D V15.2.3 can now successfully setup a HiPer SR & CR as a long link base.

HiPer SR with special GPS option wouldn't get fixed solution in V15.2.2 (it was working in V12.2).

Now also fixed for V15.2.3

## Avoidance area

Fixed bug where the 3D mode wouldn't be applied properly to polylines and points.

Surfaces can now be assigned to a specific layer (and correctly saved) to be used for avoidance zones (inside the surface/outside/above or below).

## LN100/150 No MC-OAF warning

When connected to an LN instrument, under the totalstation info button, V15.2.3 will show you a warning message if this LN is not optioned up to be used for machines. You can purchase a special oaf to be loaded onto the LN150 to use for machine control. Without this MC-oaf option, only Pocket3D can be used to connect and work with this instrument.

## Site support desk

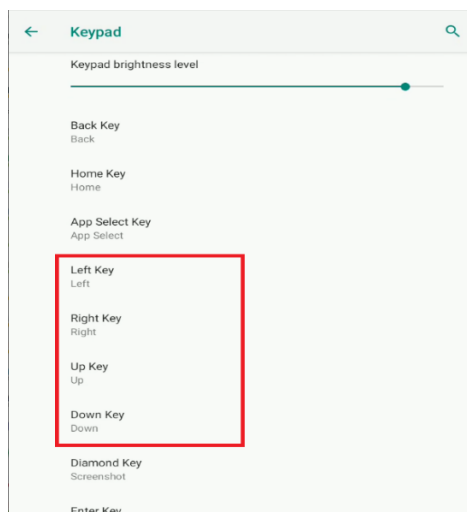
Fixed an issue on windows platforms (FC/SH-5000, FC/SH6000 and FC6400) where the site remote support desk would not get added automatically when loading a sitelink site.

# General Info, Defects and Known Issues

List of general information relating to general changes, known issues and/or items not supported in Pocket-3D v15.2.3.

- Sitelink v1 is not supported.
- When using scale factors in a V12 generated tp3 file, please check inside the Data-Control ->Grid tab that the same scale factor is displayed as in V12.
- When hard resetting your Android device, you will lose all your apps and also your OAF file, as the device id might change
- To use Inbuild GPS, select machine file "Built-In GPS". You will not achieve a fixed solution with that type of GPS
- When connecting to a GPS, there are 3 type of potential error codes: Txxx – for timeout, Rxxx – for rejected and Exxx – for Error. The xxx stands for the ID of Gril command that has failed. EG, T002 – stands for your 2. Command has timed out, which means, you don't have a valid connection to the receiver.
- Applying a surface profile to a polyline might not be applied properly on polylines with a 90° angle.
- Pocket3D on CT8x2: use F1/ F2 key as Enter/ESC button inside Pocket-3D.

Pocket3D on Android: Go to Settings > Keypad > advanced to use arrow buttons inside Pocket-3D e.g. for rotating total station



- On iOS platform, Pocket3D only connects to LN's (wifi), GRi3's (BLE) or Hiper HR's (Wifi). No totalstations like PS or GT are supported on iOS. Also import of dxf/dwg files is not yet supported on iOS

**NOTICE**

*LN-150 does not have an on-board display to check the activated options. Once P3D gets connected to the LN-150, the LPS/MC options and firmware version can be checked via the TS status dialog and the station setup routine*

**NOTICE**

*Pocket3D can not be used with GRi3F, as this unit does not have any batteries at all and has to remain on the mast of a machine to get powered on.*

**NOTICE**

*When using the P3D and 3D-MC software applications in the MC-Mobile workflow with the same NTRIP account, it may take some time to obtain a fixed solution when switching between the two applications. This is because some NTRIP accounts or casters may still be holding the account open from a previous connection, even if the device has stopped using it. This can result in a delay of up to 5 minutes before the NTRIP caster frees up the account. It's important to be aware of this potential delay and consider using separate NTRIP accounts or casters for each software application to avoid conflicts.*

**NOTICE**

*When switching between P3D and 3D-MC software applications in the MC-Mobile workflow, we recommend to disconnect and shut down the software before swapping the GRi3 antenna. It may take some time for the GRi3 to swap between CAN and BT connection.*

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