



# MAPSMART®

## FOR ANDROID

# QUICK START GUIDE

The quick reference guide instructions are sectioned by specific LTI lasers as used with a ruggedized Android tablet (shown below).



For other Android tablets, set up may be different. Refer to your device's manual for more information on connecting to Wifi, email accounts, and Bluetooth® enabled devices.



TruPulse® 360°/B survey laser (yellow);  
TruPulse® 360° R survey laser (black)



TruPulse® 200X survey laser (red)












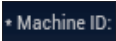
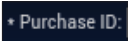



TruPoint™ 300 survey laser (red)



Tablet running Android 4.1 or later

# [1<sup>st</sup> Step for All] WLAN, MapSmart App, Licensing:



- [1] Turn on tablet, tap  Settings, tap  Display to set SLEEP to NEVER.
- [2] Tap  WLAN to select a wifi network and complete process.
- [3] Tap  Settings then tap  + Add account to add a Google account or get assistance from your IT department to set up a dedicated email account for your reports.
- [4] Tap , then Search for: “LaserSoft MapSmart”  and INSTALL the app.
- [5] From the main screen, tap , then tap  to open app.
- [6] Tap and hold Machine ID: 748DDB3C to copy or notate Machine ID on paper.
- [7] Tap [License Manager website](#) link, then log in with your email and temporary password sent from LTI.
- [8] Paste or type the Machine ID into .
- [9] From the Purchases Table, copy and paste or type in your purchase ID into .
- [10] Tap , then copy or notate the License Key. [11] Tap , then paste or type in the License Key and then tap .
- [12] Charge tablet. [13] Go to [2nd Step] depending upon your laser set up: TruPulse 360B/R, TruPulse 200X + TruAngle, or TruPoint 300.

## [2<sup>nd</sup> Step for TruPulse 360B/R] Toggle On *Bluetooth* Link:



[1] Press  to power the unit on. [2] Long press  until (Units).



[3] Press  until (bt). [4] Press  then press  until (bt on).



[5] Press  to confirm.

## [3<sup>rd</sup> Step] Change Units of Measure to Feet (if necessary):

[1] Long press  until (Units).

[2] Press  then press  until (**FEET**). [3] Press , then press  again to accept feet/degrees and units of measurement.

## [4<sup>th</sup> Step] Connect TruPulse 360B/R with Android Device:

[1] Tap  Settings, then tap  Bluetooth. [2] Turn on tablet *Bluetooth* link.





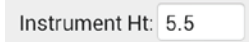







[3] Tap the laser model/serial number under AVAILABLE DEVICES.

[4] Enter PIN number: 1111 or accept any passkey. [5] Exit to main screen.









## [Final Step for TruPulse 360B/R] Set Up & Get a Shot:

\*For standard survey with no GPS or Resection options selected.








- [1] Power on all components.
- [2] Perform the laser compass calibration routine.
- [3] Tap , then tap .
- [4] Enter file name, then tap  and select equipment.
- [5] Tap , then select units that match the laser.
- [6] Measure from center of laser to ground and enter value .
- [7] Measure from center of prism to ground and enter value , then tap . Leave value 0.00 if not using a prism.
- [8] Leave all origin values at zero (unless known equipment position) and tap .
- [9] Wait for  to become  at the top of the MapSmart screen.
- [10] Aim and press  on the laser and add the first data point.
- [11] Enter a description and tap .
- [12] Finish the survey.

## [2<sup>nd</sup> Step for TruPulse 200X + TruAngle] Toggle On *Bluetooth* link:









[1] Press  to power the unit on. [2] Press  until (  ). [3] Press  until (  ). [4] Press  to accept.



## [3<sup>rd</sup> Step] Change Units of Measure to Feet (if necessary):

[1] Press  until (  ). [2] Press  to scroll through unit options (  ) or (  ). [3] Press  to accept the units of measurement (  ).

## [4<sup>th</sup> Step] Toggle On Electronic Filter (if using a reflective target):

[1] Press  until (  ). [2] Press  to choose (  ). [3] Press  to accept selection. [4] Apply the mechanical filter  to the front lens.


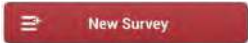

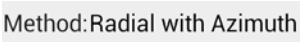
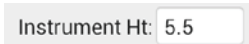



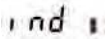








## [5<sup>th</sup> Step] Sync Tablet's *Bluetooth* link with TruPulse 200X:

[1] Tap  Settings, then tap  Bluetooth. [2] Turn on tablet *Bluetooth* link. [3] Tap the laser model/serial number under AVAILABLE DEVICES. [4] Enter the PIN number: 1234 or accept any passkey. [5] Exit to main screen.



## [Final Step for TruPulse 200X] Set Up & Get a Shot:

\*For standard survey with no GPS or Resection options selected.

- [1] Power on all components. [2] Tap , then tap .
- [3] Enter file name, then tap  and select equipment.
- [4] Tap , then select Units that match the laser.
- [5] Measure from center of laser to ground and enter value .
- [6] Measure from center of prism to ground and enter value , then tap . Leave value 0.00 if not using a prism.
- [7] Leave all origin values at zero and tap .
- [8] On TruAngle, rotate 360 degrees until  becomes flashing .
- [9] Aim laser at desired reference point (or prism), then tighten the TruAngle brake  and press  on laser and  stops flashing.
- [10] Press  again to add the reference data point to your map. [11] Enter “REF” for the description and tap . Notice that  turns into  at the top of the MapSmart screen. Tap to refresh connection if necessary [12] Finish the survey.

## [2<sup>nd</sup> Step for TruPoint 300] Activate WLAN:




[1] Press  to power the unit on. [2] Press , then tap .



[3] Tap  twice, then activate WLAN connectivity . [4] Press  to accept.

## [3<sup>rd</sup> Step] Change Units of Measure to Feet (if necessary):

[1] Press  then tap . [2] Tap  twice, then change unit of measurement.

[3] Short press  to return to the main screen.

## [4<sup>th</sup> Step] Connect TruPoint 300 to Tablet:

[1] Tap  **Settings**, then tap .

[2] Tap the laser model/serial number listed in available networks.

[3] Laser will display as connected.





## [Final Step for TruPoint 300]Set Up & Get A Shot:

\*For standard survey with no GPS or Resection options selected.

[1] Power ON all components. [2] Check tablet settings to verify TruPoint is connected.



[3] Tap , then tap .

[4] Enter file name, then tap  and select equipment.




[5] Enter Units that match the laser.

[6] Measure from center of laser to ground and enter value .

[7] If using a non-reflective target, measure center of target to ground and enter value

, then tap . If not using a target, leave value at 0.00

[8] Tap , wait until the icon becomes . [9] On TruPoint, follow leveling directions.

[10] On tablet, leave all origin values at zero and tap . [11] Aim laser at desired reference point (target), then tap  to zero laser, and tap .

[12] Tap  to add the reference data point to your map.

[13] Enter “REF” for the description and tap . [14] Finish the survey.



## Access MapSmart Help:

[1] Tap  and choose Help.

Get help with:

- Laser/tablet *Bluetooth* connection or WLAN connection
  - \*Low voltage on tablet or laser can hinder wireless connections.
  - \*\*Pair laser to only one device at a time.
- Available mapping methods
- Corrections to data point heights, notes, and orientation
- Moving control point and equipment to a new position
- Converting inches to decimal feet for height entries
- Sending program diagnostics and/or survey \*.MS4D file to LTI technical support (while on WiFi only).

# Radial with Angle Mapping Package Assembly for TruPoint 300

TruPoint™ 300  
#7006880



Laser Aiming Assist  
#3255094

Claw Mounting Base  
#3255097



CT7 Ruggedized  
Android Tablet  
#3255095



Tripod  
#3504683



X Grip for 7" Tablets  
#3255096



# Radial with Angle Mapping Package Assembly for TP200X



Mechanical Filter  
# 7035142

Laser Interface Cable  
(Included with # 7006000)

TruPulse® 200X  
Laser Mounting  
Bracket  
# 7024867

CT7 Android  
Tablet  
# 3255095

(2) Laser  
Brackets  
for MSTA  
(Included with  
# 7006000)

MapStar®  
TruAngle®  
(MSTA)  
# 7006000

Mounting  
Base Arm  
# 3255097

TriBrach Adaptor  
(Optional)  
# 3004670

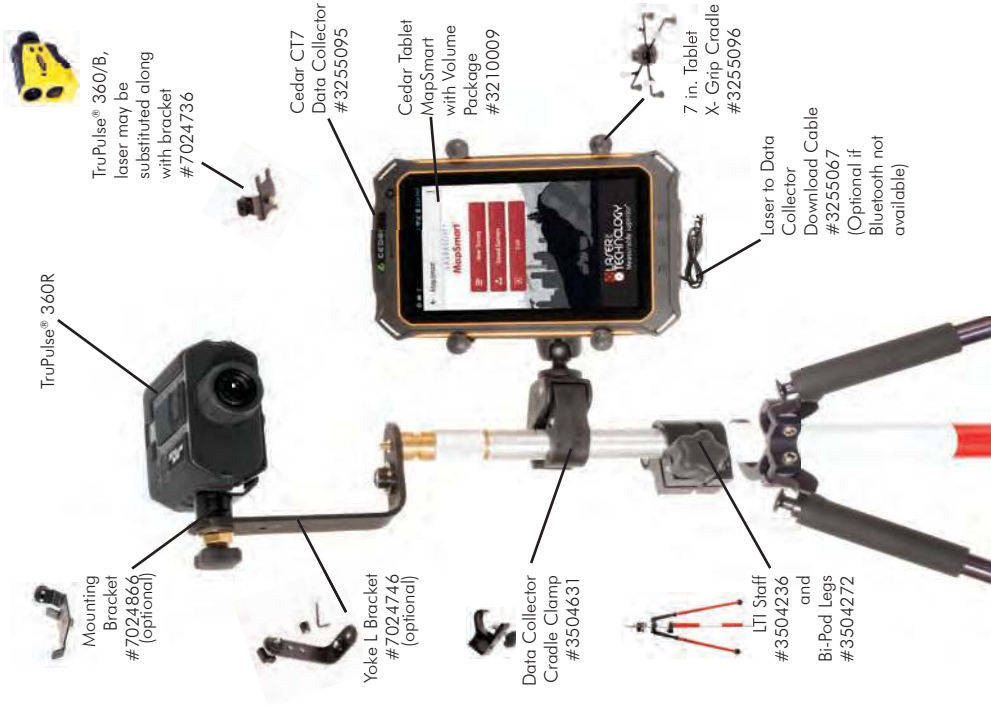
TriBrach  
(Optional)  
# 3003255

Tablet X Grip  
Cradle  
# 3255096

Survey Tripod  
# 3504630



# Radial with Angle Mapping Package Assembly for TP360R



TruPulse® 360R

Mounting  
Bracket  
#7024866  
(optional)

TruPulse® 360/B,  
laser may be  
substituted along  
with bracket  
#7024736

Yoke L Bracket  
#7024746  
(optional)

Cedar CT7  
Data Collector  
#3255095

Data Collector  
Cradle Clamp  
#3504631

Cedar Tablet  
MapSmart  
with Volume  
Package  
#3210009

LTI Staff  
#3504236  
and  
Bi-Pod Legs  
#3504272

7 in. Tablet  
X-Grip Cradle  
#3255096

Laser to Data  
Collector  
Download Cable  
#3255067  
(Optional if  
Bluetooth not  
available)



**LTI Technical Support:**

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Phone: 1.303.649.1000

Email: [support@lasertech.com](mailto:support@lasertech.com)

Web: [www.lasertech.com](http://www.lasertech.com)

**LTI Hours of Operation:**

Monday through Friday

8:00 am to 5:00 pm (MST)

(Excluding Holidays)



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