

Trimble FmX Field Level II System



One Very Powerful System...
One Display

Tile Plows--Drive the Line and let the system
calculate the grade or enter grade manually on the
touch screen

Topographical Survey

Design: AutoPlane or MultiPlane

Machine Control: Scrapers Single,
Dual or Tandem

Dual Integrated GNSS GPS Receivers

GPS & Glonass

Leveling Models for Multiple Applications



AutoSlope

Allows user to drive the intended line and let the system calculate the grade automatically based on user depth and grade preferences.



Point to Slope

Constant Grade in any direction, Grade Breaking capability on the fly, No directional constraints. Most commonly used for Agricultural Drainage: Tile & Waterways



Leveling

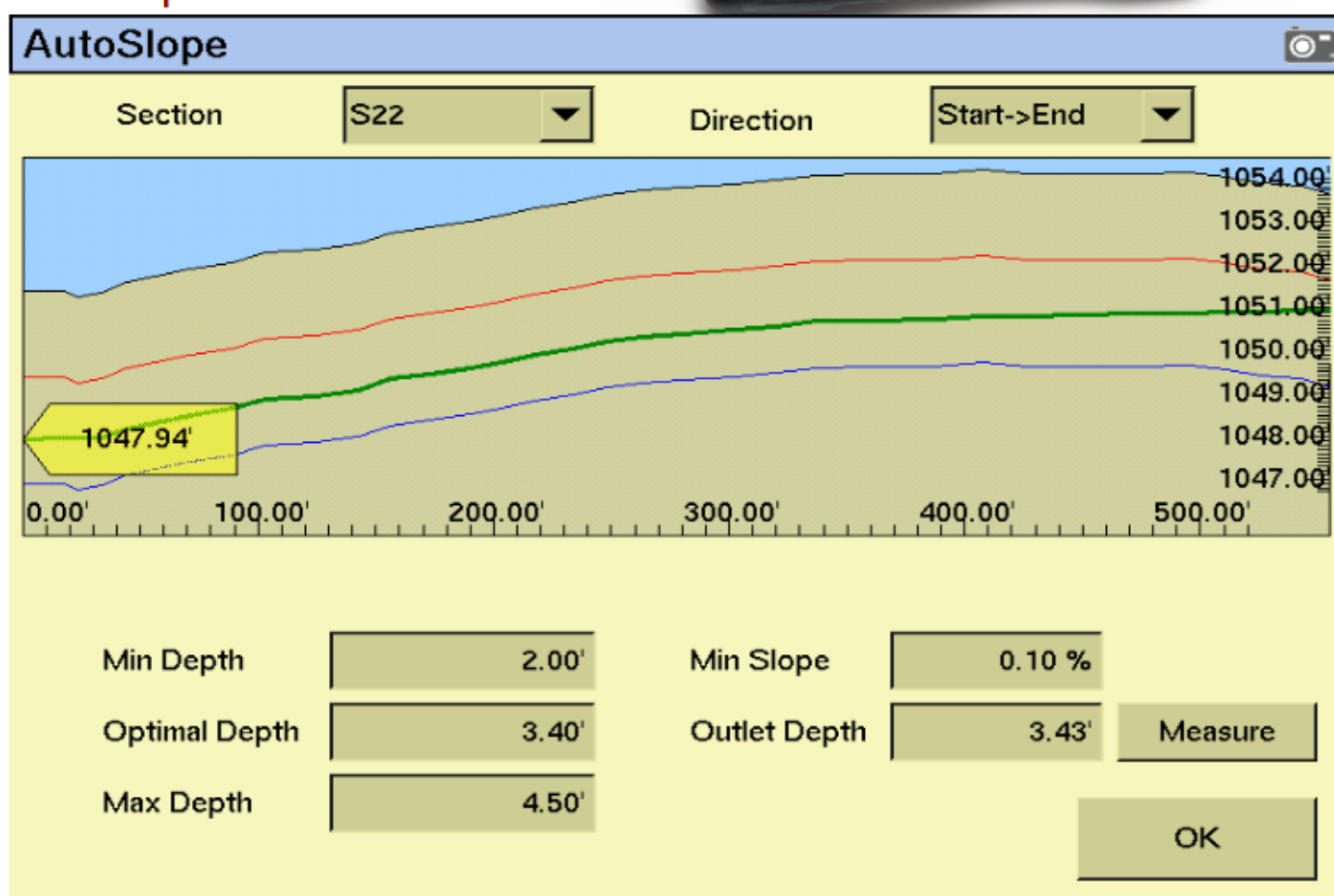
Automatic Leveling for use with scrapers. Fields can be surveyed for topography and using the built in Autoplane, a best fit design of the field will be created. This will move the minimum amount of dirt to achieve drainage.

Slopes can also be user entered in
Single or Dual Planes.

Support for Tandem and Dual Scrapers

AutoSlope Functionality for Field Level II

- Automatic Grade Calculations
- Tile Plows
- Scrapers



Drive the Line--Set into Connection
Measure Depth--Press Auto
Grade will be automatically controlled
based on user specified inputs

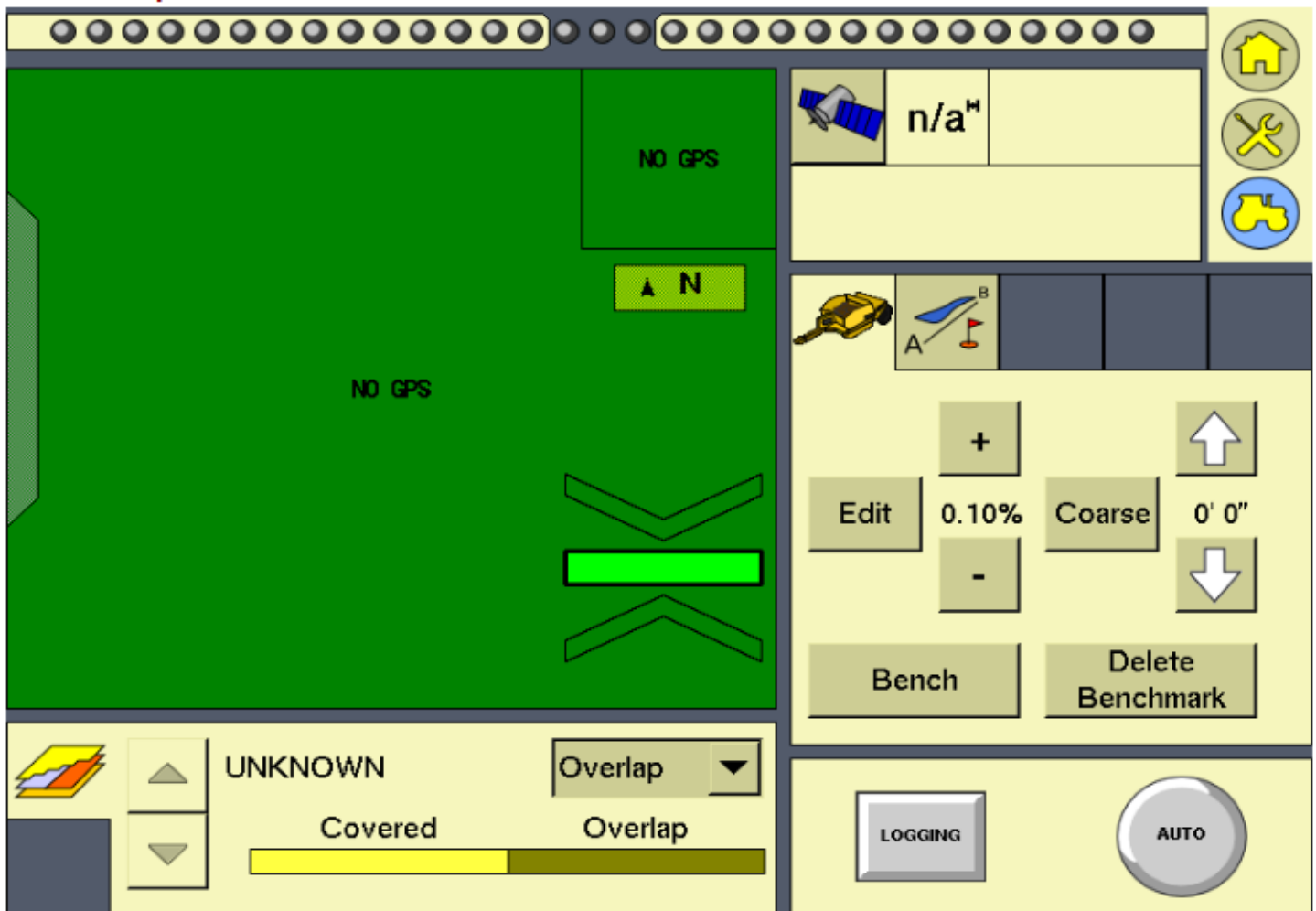
Point to Slope

Grade in any direction

GPS Machine Control

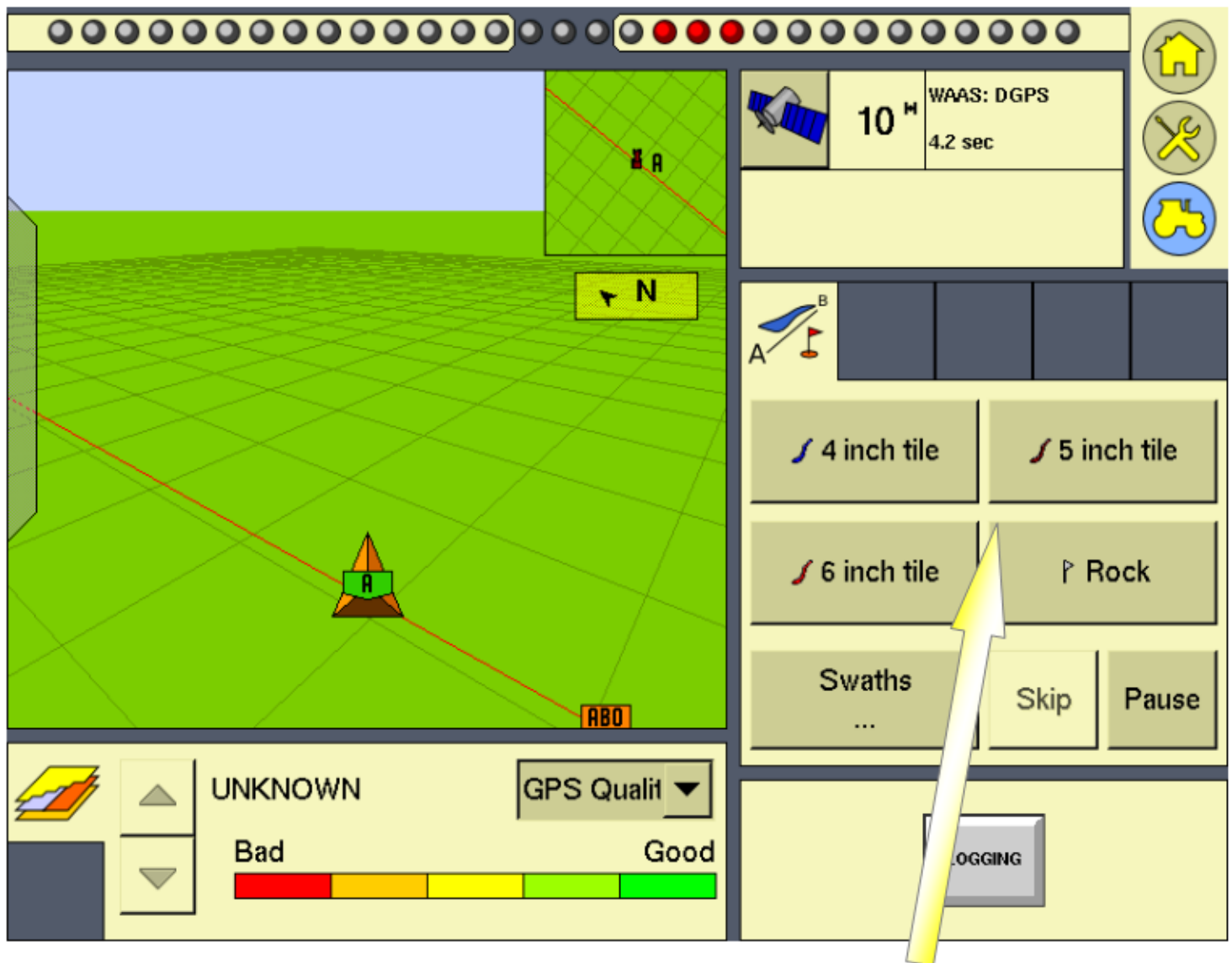
-Tile Plows

-Scrapers



Change grade from the cab with the push of a button on the touch screen display, on the fly.

As Installed Mapping on the same Touch Screen Display



Four Virtual Buttons can be customized to the tile sizes being installed on the job.

Virtual Buttons enhance the systems ability to let the user customize the display to fit their individual needs.

AutoPlane: A Best Fit Design. Created in the field on the Field Manager Display

AutoPlane

Cut Fill Ratio: 1.20

Section: None Left

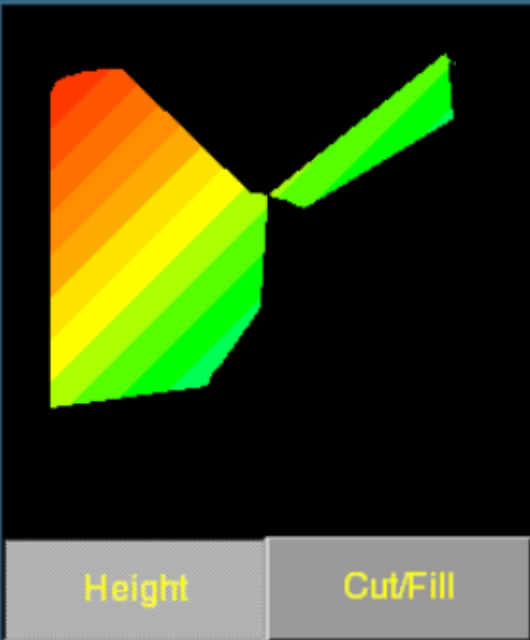
North->South Slope: 0.000 %

East->West Slope: 0.000 %

Composite Slope: 0.000 %

Slope Heading: 270.00°

Stats	
Cut	100cy
Fill	86cy
Area	1.2a



AutoPlane is useful for creating Best Fit designs right in the Field on the same display the Topography was captured on. The Best Fit Design can be modified by the user or left alone. Immediately the operator can begin Leveling to the specification with automatic vertical control using the same equipment.

Manual Setup of Field Plane: Single and Dual Slope

Plane Leveling Setup

Heading

0.00°

0.123 %
0' 1.48' per 100'

Cross Slope

-0.123 %
0' 1.48' per 100'

A 404' 10.3'

Cancel Reset OK

The image shows a software interface for setting up a field plane. It features a dark blue background with a yellow title bar at the top that reads "Plane Leveling Setup". Below the title bar, there are several input fields and labels. At the top, the label "Heading" is positioned above a grey box containing "0.00°". A vertical yellow line descends from this box. To the left of this line, a grey box contains "0.123 %", with "0' 1.48' per 100'" written below it. A horizontal yellow line extends to the right from the vertical line, labeled "Cross Slope". Below this horizontal line, a grey box contains "-0.123 %", with "0' 1.48' per 100'" written below it. At the bottom left, a grey box contains "A 404' 10.3'". At the very bottom, there are three grey buttons labeled "Cancel", "Reset", and "OK" from left to right.

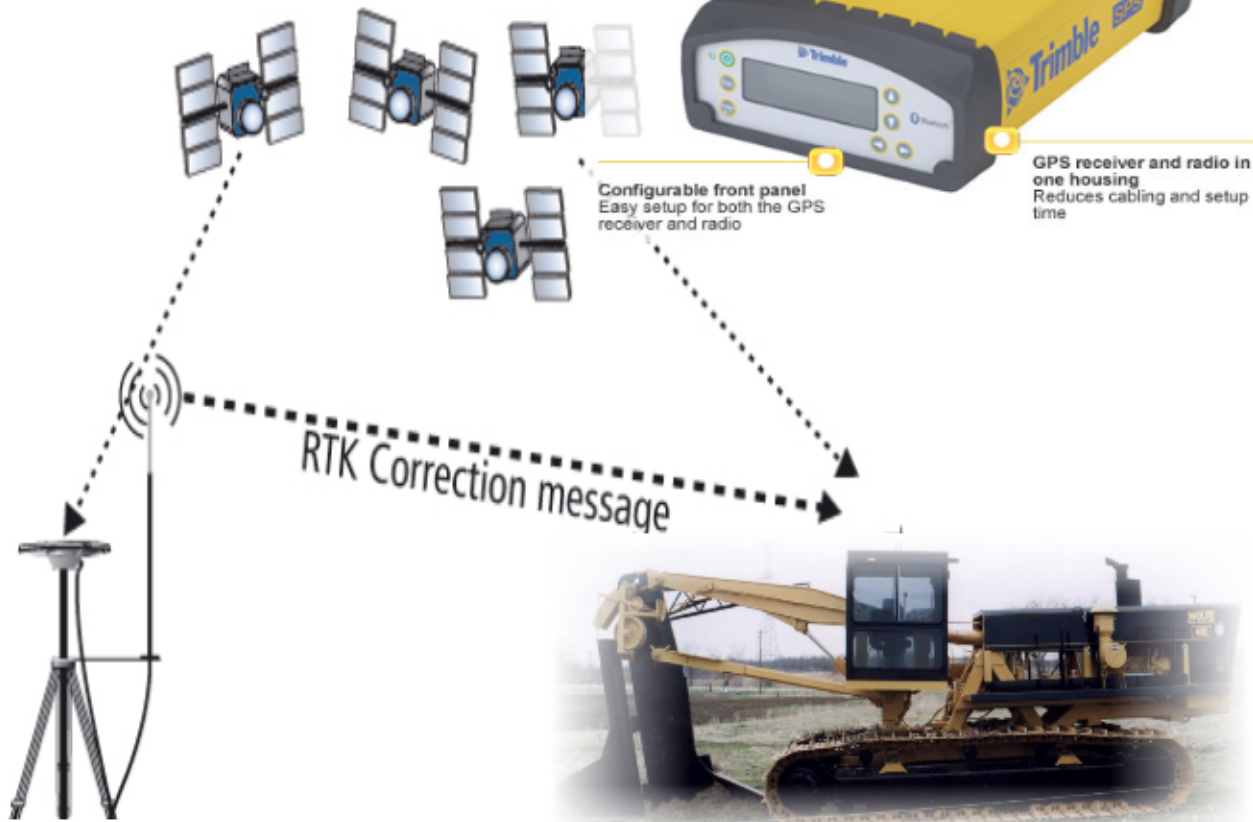
Plane Leveling Setup allows users to enter a specific slopes either Dual or Single for leveling a field to match a previous survey or touch up a leveling job year to year.

RTK (REAL TIME KINEMATIC)

Advanced 72 channel L1/L2/L2C/GLONASS/RTK capabilities
Makes the 442 receiver an excellent high accuracy RTK receiver using a local RTK network or base station

Internal long life Lithium-ion battery
Provides 10 hours of operation as a base station and 12 hours of operation as a rover.

Rugged IP67 environmental rating
Can withstand the tough Agriculture environment



Compact and portable
For highly mobile on-farm use.

Uses Autbase™ technology
To automatically set up on a previously set point.



Long-life battery
Provides 10 hours of operation.

Easy-to-use menu
For configuring the receiver and network settings, and for checking status.





Benefits of GPS for Machine Control:

- Drive the line and let the system calculate grade and install**
 - Not Affected by Wind, Rain, Fog, Snow**
 - Ease of Grade Changes**
- No Vertical Constraints for Operation**
 - No Directional Constraints**
 - As Installed Mapping**

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