Here are just a few examples on how to use ExcaVision

Digging a 4 ft deep hole
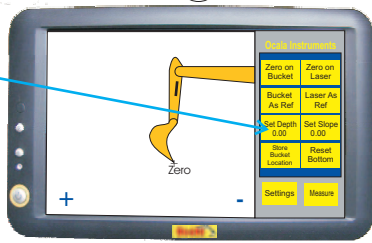
Surveyor's stake Press zero here

4 ft

1

Default Preset
Depth: 0.00
Reach: 0.00
Dist: 0.00
Left To Bottom: 0.00
Zero On Bucket   Main Menu

Set the reference:
1. Place the tip of the bucket on the surveyor's stake
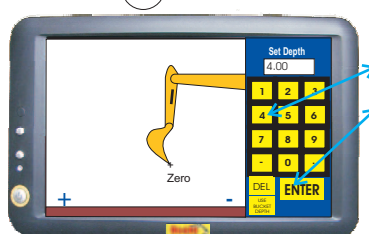2. Press Zero on Bucket
3. Press Main Menu

2

Ocala Instruments
Zero on Bucket | Zero on Laser
Bucket As Ref | Laser As Ref
Set Depth 0.00 | Set Slope 0.00
Store Bucket Location | Reset Bottom
Settings | Measure
Zero

Set alarm depth:
1. Press Set Depth

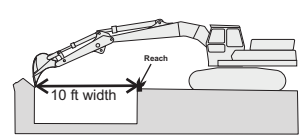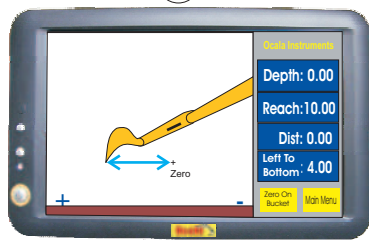**3**

Set Depth
4.00
1 2 3
4 5 6
7 8 9
0
DEL   ENTER
Zero

1. Press 4
2. Press Enter then Measure

Page 1

Digging a 4 ft deep hole 10 ft wide

Reach
10 ft width

4

Depth: 0.00
Reach: 10.00
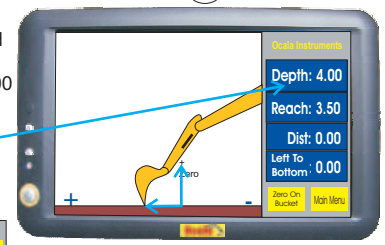Dist: 0.00
Left To Bottom: 4.00
Zero On Bucket Main Menu
Zero

From surveyor's stake the Reach is 10 ft.

5

From surveyor's stake the Reach is 3.50 ft and the bucket is at 4 ft depth, left to bottom 0.00

Depth: 4.00
Reach: 3.50
Dist: 0.00
Left To Bottom: 0.00
Zero On Bucket Main Menu
Zero

You can choose what to see by pressing one of the 4 measuring windows: Depth, Slope, Left To Bottom, Bucket Angle, Reach, Distance or None
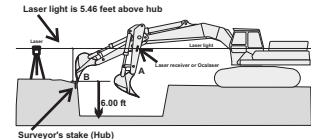
Ocala Instruments
Depth | Depth, Slope
Reach | Left To Bottom
Dist | Bucket Angle
Left To Bottom | Reach
Zero On Bucket | Distance, None

Alarm sounds if bucket goes below 4 feet

Bucket Angle

Distance   Depth
Reach

$$Slope = 100 \times \frac{Depth}{Reach}$$

Page 2

Digging a 6 ft basement with a laser

Laser light is 5.46 feet above hub
Laser
Laser light
B
A
Laser receiver or Ocalaser
6.00 ft
Surveyor's stake (Hub)

1

Default Preset
Depth: 0.00
Reach: 0.00
Dist: 0.00
Left To Bottom: 0.00
Zero On Bucket Main Menu

1. Press Main Menu

2

Rebenching
Ocala Instruments
Zero on Bucket | Zero on Laser
Bucket As Ref | Laser As Ref
Set Depth 0.00 | Set Slope 0.00
Store Bucket Location | Reset Bottom
Settings | Measure
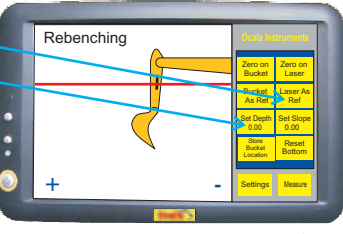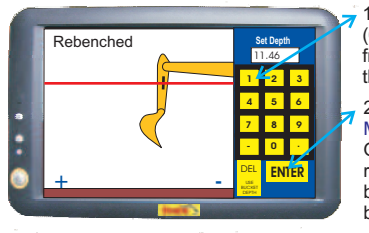
1. Press Laser as Ref
2. Press Set Depth

3

Rebenched
Set Depth
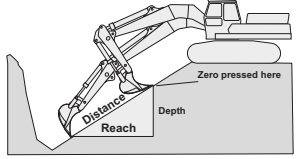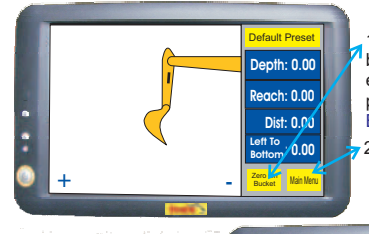11.46
1 2 3
4 5 6
7 8 9
0
DEL   ENTER

1. Key in 11.46 (6 ft depth + 5.46 ft from laser light to the Hub)
2. Press Enter then Measure. Move the Ocalaser automatic receiver in to the laser beam and wait for long beep. Start digging

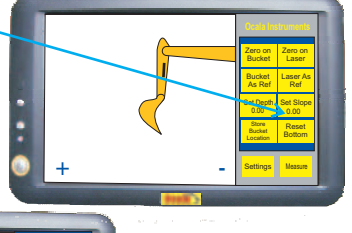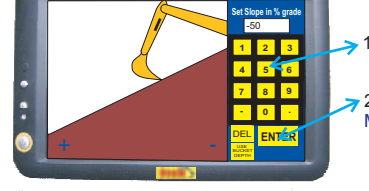Page 3

Digging perfect embankments

Zero pressed here
Distance   Depth
Reach

1

Default Preset
Depth: 0.00
Reach: 0.00
Dist: 0.00
Left To Bottom: 0.00
Zero Bucket Main Menu

1. Place tip of bucket on embankment and press Zero on Bucket
2. Press Main Menu

2

Ocala Instruments
Zero on Bucket | Zero on Laser
Bucket As Ref | Laser As Ref
Set Depth 0.00 | Set Slope 0.00
Store Bucket Location | Reset Bottom
Settings | Measure

1. Press Set Slope

3

Set Slope in % grade
-50
1 2 3
4 5 6
7 8 9
0
DEL   ENTER

1. Key in 50 -
2. Press Enter then Measure

Page 4