



3D Disto Software
for Windows®

Leica 3D Disto

Tutorial

Opposite Point Projection



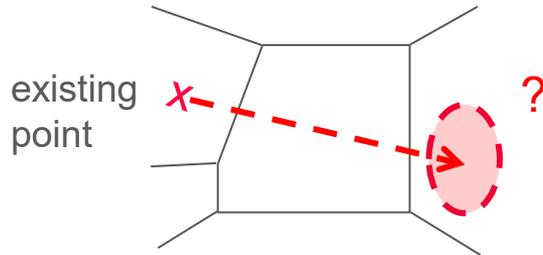
- when it has to be **right**

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Geosystems

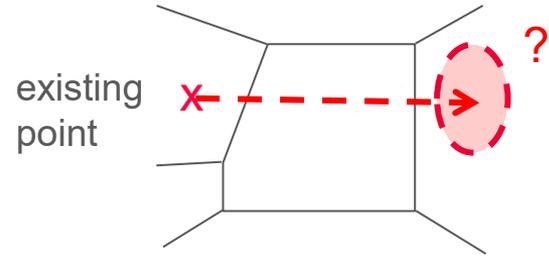
Opposite point projection

How to project a point perpendicular to a surface

1 strictly perpendicular:



2 perpendicular & keeping the level:



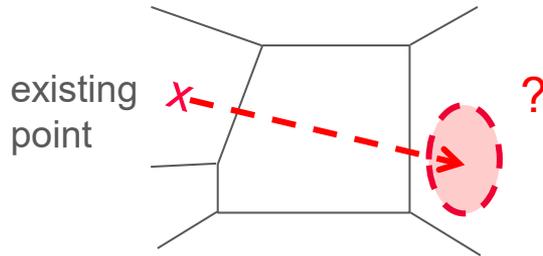
- when it has to be **right**

Opposite point projection

How to project a point perpendicular to a surface

1

1st workflow:
strictly perpendicular:



- when it has to be **right**

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Opposite point projection

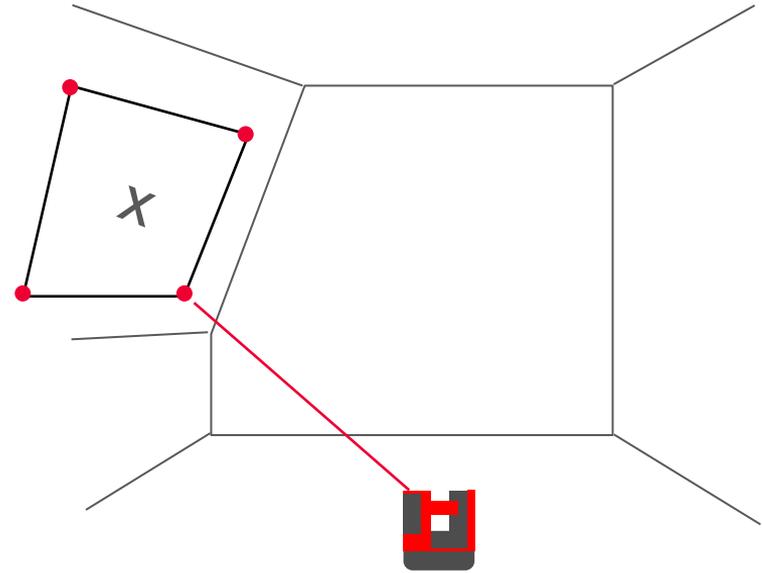
How to project a point perpendicular to a surface

1 strictly perpendicular:

- start „Projector“ application
- select option „slope“



- follow the assistant and measure around the working area
- press checkmark ✓...

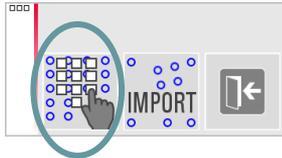


Opposite point projection

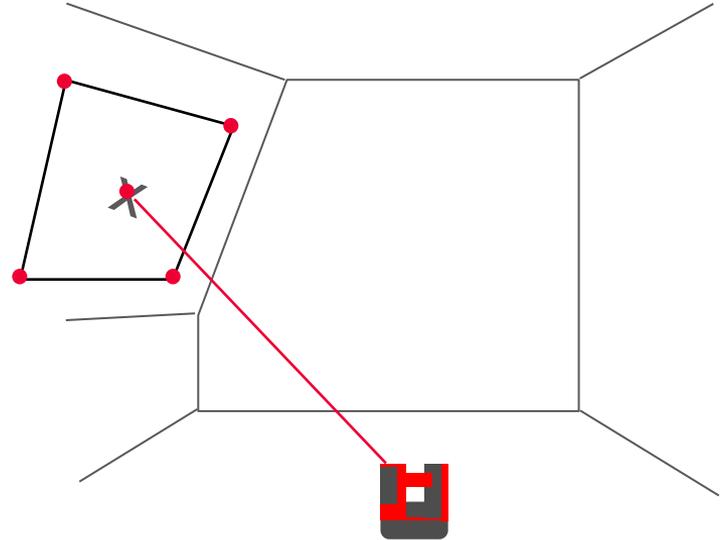
How to project a point perpendicular to a surface

1 strictly perpendicular:

- follow the assistant and measure the point you want to have projected
- press checkmark
- select option „enter grid“ ✓



- enter arbitrary values in the following popups for grid geometry

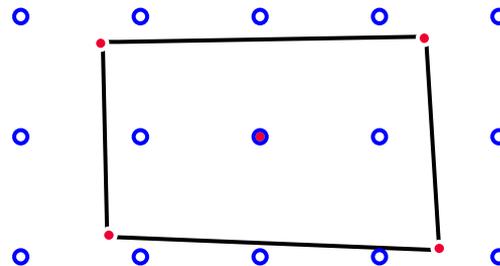
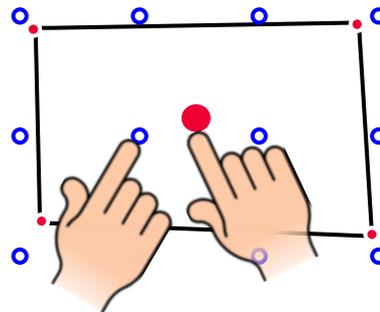


Opposite point projection

How to project a point perpendicular to a surface

1 strictly perpendicular:

- A blue grid is displayed on the screen. Select a grid point and the measured point you want to have projected
- press COVER key 
- both points are covering now. Press checkmark 



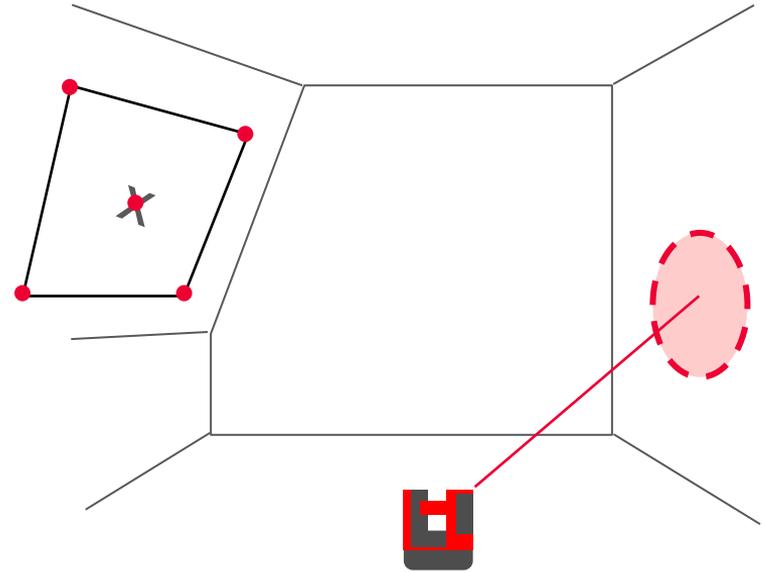
- when it has to be **right**

Opposite point projection

How to project a point perpendicular to a surface

1 strictly perpendicular:

- turn the laser to the position where you expect the projected point approximately
- press 

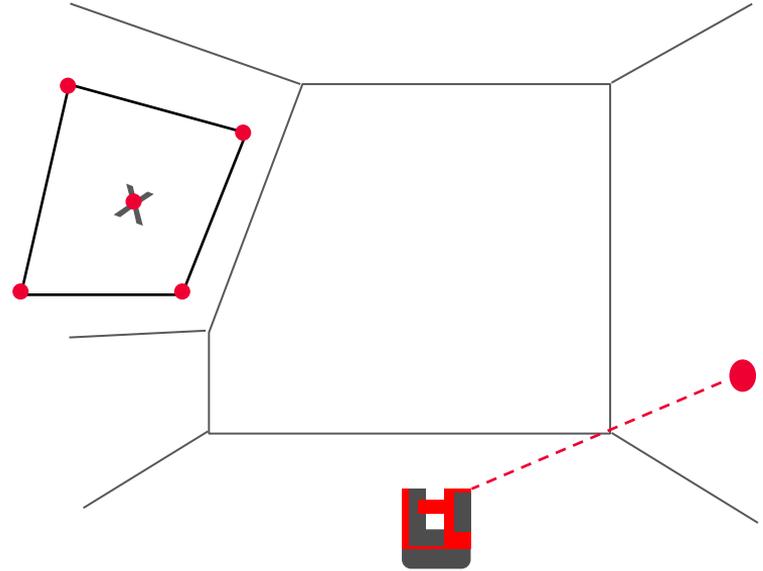


Opposite point projection

How to project a point perpendicular to a surface

1 strictly perpendicular:

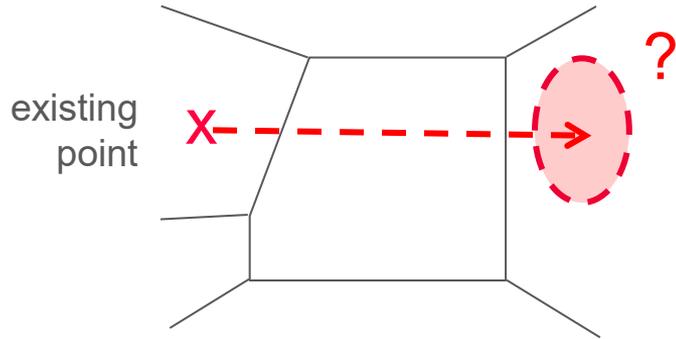
- the 3D Disto measures and moves
- if the correct position is found the laser blinks and the point flashes in the screen.



Opposite point projection

How to project a point perpendicular to a surface

- 2 2nd workflow:
perpendicular & keeping the level:

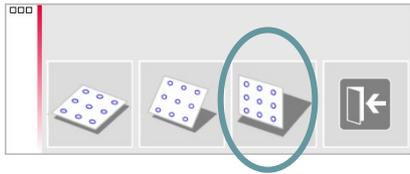


Opposite point projection

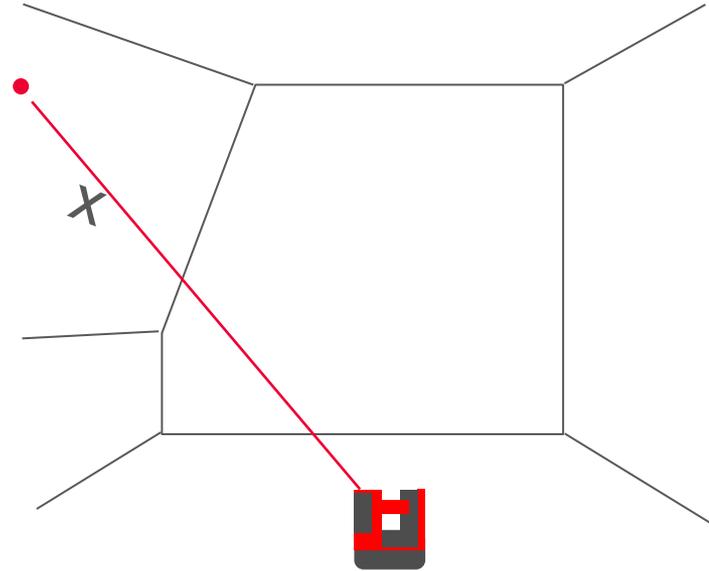
How to project a point perpendicular to a surface

2 perpendicular & keeping the level:

- start „Projector“ application
- select option „vertical“



- measure the 1st point on the wall (upper left corner, see sketch)

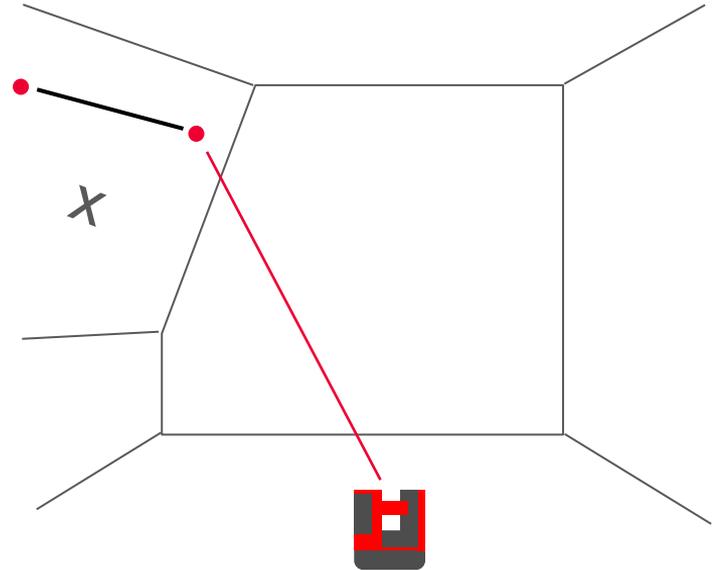


Opposite point projection

How to project a point perpendicular to a surface

2 perpendicular & keeping the level:

- it is essential to measure the 2nd point on the same level. Therefore go to the menu and start „Tool Kit“
- press 
- do not move the laser and measure the same point again
- enter a horizontal distance, not too small, 2 m or 10 ft
- the laser moves to 2nd point, keeping the level. Quit the Tool Kit
- back in the «Projector», don't move the laser and measure the same point again



- when it has to be **right**

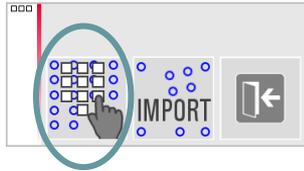
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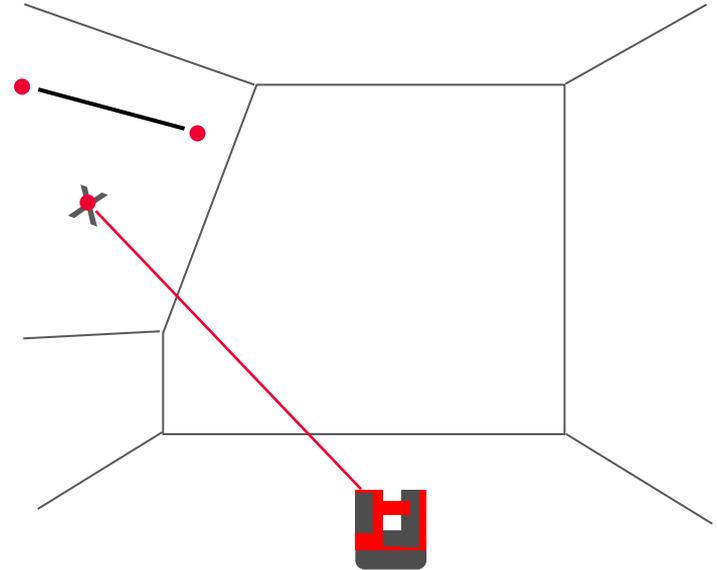
How to project a point perpendicular to a surface

2 perpendicular & keeping the level:

- follow the assistant and measure the point you want to have projected
- press checkmark ✓...
- select option „enter grid“



- ...
- (proceed like in 1st workflow. Finally the laser indicates the opposite point on the same level.)



Leica 3D Disto

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