



Technical note T136: Surface separation

CCI – TalyMap

Surface separation and leveling

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Introduction

In situations where multiple parts or multiple surfaces are being measured, the ability to measure these simultaneously can be of great advantage. It can significantly reduce the setup time, measurement duration and user input required.

The data gathered from these types of measurements may require separating before the analysis can be carried out. For 3D surfaces, this can be done using the 'Partition and level' feature in Talymap 7.

Procedure

The example below shows multiple gears measured using a single stitch measurement, however it could be used to separate any surfaces on the same or multiple parts, such as circuit boards.



관 🕹 🛃 🕂 Studiables Minidocs File Operators NM Partition and level Correct lin La Retouch 1 Mirror Level Level line by line Kotate Spatial Fill NM Threshold 🔺 Tip decon filter points Correct Partition and level File Select "flat" areas by explorer clicking on the motifs of the surface. Then use this partition (or sub-surface) as a new surface, or use it as a reference zone for leveling (the whole surface or the partition).

...... 1 To separate them, select the studiable and under the 'Operators' tab click 'Partition and level'

TalyMap advanced software functions can greatly improve measurement automation, leading to increased productivity.

> Dr Mike Conroy, **Business Development** Manager, Taylor Hobson Ltd.





Only the selected surface will remain in the studiable.

Advanced Cropping (Advanced Module) can be used to automatically crop the studiable to size of the remaining surfaces. The 'Extract Area' function can be used as a manual alternative.

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•••• The selected surface is available for further analysis independent of the original adjacent surfaces.

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