

# Planar Range Options

## High Speed Integrated 2D & 3D Measurement System

### Computer Upgrade Option

*This option upgrades the standard Dell OPTIPLEX i5 PC package (tower, monitor, keyboard and mouse) with 4GB of RAM to an i7 processor with 8GB of RAM. This option is standard when a factory fitted\* Opti-Scan is supplied at point of order. It also comes as standard on Planar P360.35 systems and above.*

*For the P70.20 system the standard PC is an Dell Optiplex I3 package small form factor (tower, monitor, keyboard & mouse) with 4GB of RAM, the upgrade option supplies an I5 Optiplex with 4GB of RAM*

*\*computer upgrade not available with retrofit Opti-Scan option.*



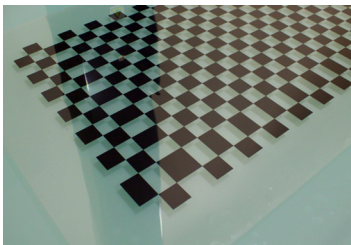
### Stand for Keyboard, Monitor and Mouse

*Provides a robust stand for keyboard, monitor and mouse making it suitable for positioning directly on the factory floor. Ergonomically designed it comes as standard on Planar PI 10.25 systems and above.*



### Planar 2D Calibration Sheet

*For recalibration of system after environmental changes such as voluntarily moving the system or involuntary movement. Essential for those who are required to carry out periodic recalibration as part of their quality processes.*



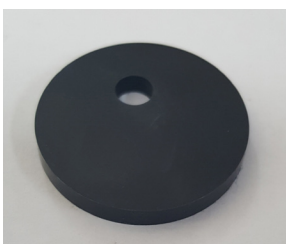
### Bar Code Scanner

*Useful retrofit module to add to the Planar system if user is planning to make very frequent inspections and utilise bar coding of parts. Comes with the bar code scanner itself and associated software. Allows the user to scan the parts as they are inspected, which automatically loads the correct CAD file for inspection and comparison.*



### ISO10360 Disk

*UKAS Accredited test disk based on 2D version of sphere used within the 3D CMM 'R' test in ISO 10360-4. Used to test final accuracy of Planar system after set up and calibration or for annual recertification and traceability.*





## Automatic Unfolding

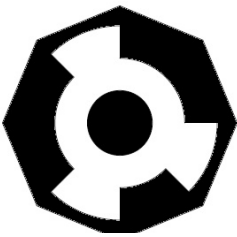
The Planar system will compare the 2D shape of a part to its 2D CAD file, but what happens if the 2D CAD file has a mistake? With this option the Planar software can use the original 3D CAD file of the folded part to inspect the flat 2D blank!

AutoPOL is the industry leader in unfolding software. By integrating AutoPOL into the Planar software 3D CAD files can be unfolded using a variety of methods such as by material, k-factor and even your own tooling database. This information is then used to unfold the original 3D CAD file back into the correct 2D shape. This 2D shape is then used to inspect the 2D blank.

With this option the Planar software can load the following 3D file formats (ACIS, Catia v4/5, Creo/ProE, IGES, Inventor, NX/Unigraphics, Parasolid, SolidWorks, STEP).

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## 2D Repositioning with Automatic Lights

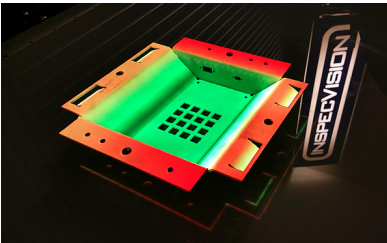


With this option the Planar system can use optical markers to automatically leapfrog/stitch 2D scans allowing parts larger than the table to be easily measured. By installing an LED ring around the camera lens retro-reflective photogrammetry markers can then be used to automatically determine the movement of a 2D part under the camera. This information is then used to automatically stitch two 2D scans together.

12 photogrammetry markers are included with the kit allowing the user to measure extremely large parts with a relatively small table. The photogrammetry markers are designed to be accurately located ensuring the highest possible accuracy.

They can be supplied with a magnetic or nanotech backing to ensure secure adhesion to the component without leaving any residue.

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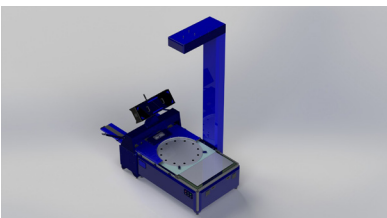


## Surf-Scan -2.5D inspection

A high resolution projector which mounts onto the existing Planar vertical column. The Surfscan integrates seamlessly with the Planar 2D automatic inspection software to allow accurate inspection of both the parts 2D shape and its 2.5D features such as forms, louvres and small bends with a single click.

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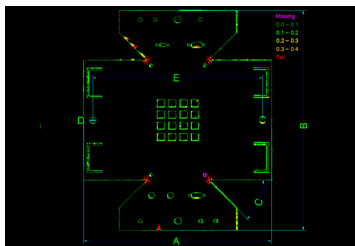
## Opti-Scan 3D Option



Retrofit module that transforms the 2D Planar machine into a complete 2D and 3D scanning system. Provides the operator with the ability to measure both surfaces and edges within seconds. The option bolts onto the side of the existing Planar light table, alternatively it can be supplied as a stand alone tripod for easy conversion into a portable 3D scanner. Includes full measuring software and basic inspection and reverse engineering software\*\* and Computer Upgrade Option. Requires 1 additional day of training. Opti-Scan 3D option is available for the majority of Planar models. Further details available on request.

\*\*does NOT include 3rd party Point Cloud to Solid Model Inspection and Reverse Engineering software.

## Off-line Software (Dongle)



An offline license supplied with a dongle. The software can be installed on as many computers as you like but used on only one at a time.

Allows the user to fully utilise inspection files (Planar files and CAD files) outside of core Planar system, thus reducing 'down time' of inspection machine itself. Option is for one additional seat but additional seats can be chosen at time of purchase (or added later). Software licence is permanently linked to the PC it is first installed on and is not transferable to any other PC at a later date.

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## Geomagic Control X / Geomagic Control X Essentials

Geomagic Control X is an advanced 3D inspection software package. Geomagic Control X can compare scans of 3D parts (3D point clouds) to their nominal CAD files to create 3D inspection reports. The inspection reports can also be created if no CAD file exists.



For 3D reverse engineering alternative applications can be provided at an extra charge.

Geomagic Control X is one of many advanced 3D inspection packages. Geomagic Control X Essentials is a more affordable software package which uses the same, well known interface as the standard version of Control X.

Both Geomagic Control X and Geomagic Control X Essentials can be purchased via 3D Systems or a local 3D Systems representative.

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## Essential Spares Kit

Contents varies across the range. Package of minor but essential items that may be needed during the course of the system's lifetime and would be useful to have 'at hand'.

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## Software Upgrades and Technical Support (1 Year)

Provides the user with the security of knowing that they will always have the most up-to-date software available to enable the most effective use of their Planar system.



Also provides full software and hardware after-sales support\*\*\* to fully trained operators (intermediate and advanced) in English via email, phone or internet during GMT office hours (Mon-Thurs: 8.30am to 5.00pm and Fri: 8.30am to 1.00pm).

Requires the user to have high speed internet connection. Back-to-back annual subscription recommended. Any lapsed years must be purchased at 50% discount up to a maximum of 3 lapsed years. The following year's support must be purchased in full at time of lapsed year(s) purchase.

\*\*\*does not include part replacement – see Warranty bundle

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## Software Upgrade, Technical Support and Warranty Bundle (1 Year)

Provides hardware warranty and software upgrades & support.

The warranty extension requires software updates as replacement hardware items may not be compatible with older versions of the software.

The warranty extension is a percentage of the hardware cost.



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