**360°
PARTNER
PROGRAM**

IRIS SPS System for Assembly sample of Components

A GERBER
TECHNOLOGY
COMPANY

VIRTEK

VPS1-3RIS60N - SR High Visibility 60

- P/N 26-0980-66-0009
- Standard Iris SPS Laser Projector, for volumes up to 4m x 4m x 4m
- Standard VPS1
  - 30 Degree (60° FOV)
  - Short Range (1,5m-6m)
  - High-Visibility
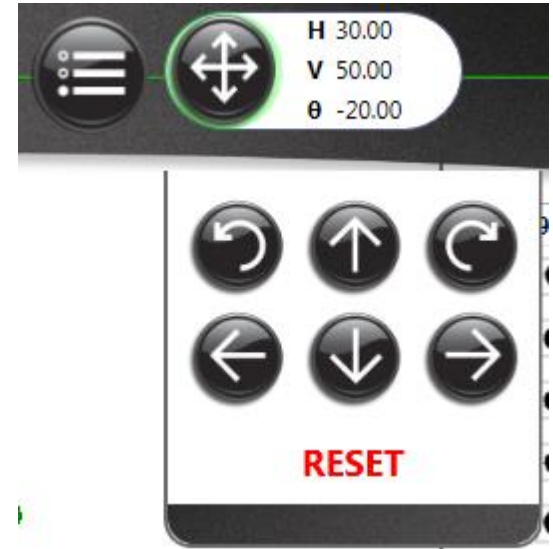 - Ethernet
  - Autofocus

IRIS Shifting Module

- P/N 24-0300-0015-00
- Allows a user to move or "shift" the location of a projection without going all the way back to CAD to re-create projection data

- This module is used
    - Accommodate known inaccuracies in the part or manufacturing process.

- Example:
    - Shift your projection to align it to the parameter of an old panel for rework, and project new drilling locations for panel revision changes.

IRIS Visualization Module

- P/N 24-0300-0016-00
- Contains Pick N' Project feature

  - This allows a use to select any edge directly from the model and project it.
    - (the selected edge will appear yellow)

  - This means that a strict list of process steps containing all required projections for manufacturing is NOT needed.
    - Datums still need to be defined

- This module is best used:
  - When the system will primarily be used for re-work & updated CAD data is readily available.
  - In R&D centres
  - Operator skill levels are above average, & there is no mandatory process to follow
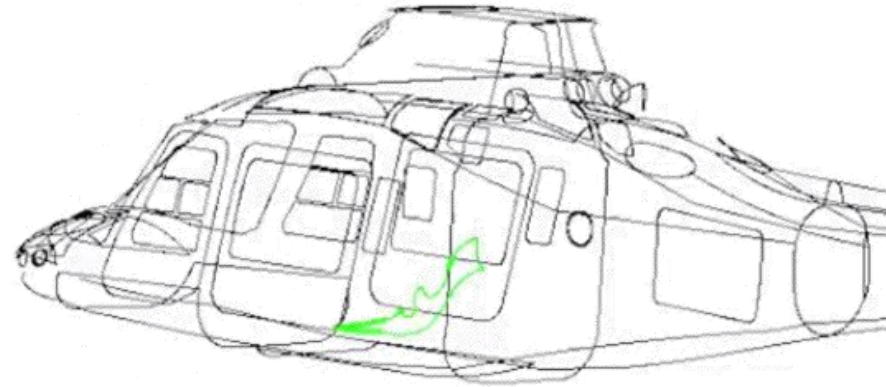 - Good troubleshooting tool

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IRIS Digitization Module

- P/N 24-0300-0017-00
- Contains:
    - Digitizing capability
    - Pick N' Project feature

- Digitizing can be used using **IRIS SPS** or **IRIS 3D**
- This allows a user to create new projection data and create a new Work Order or add it to an existing Work Order
- Pick N' Project feature is included to allow a user to project digitized data as they are working.

- This module is best used:
    - When CAD data is not easily created or attainable such as older parts/programs.
    - In some cases digitizing revision changes into Work Orders is faster and easier than making official engineering changes.
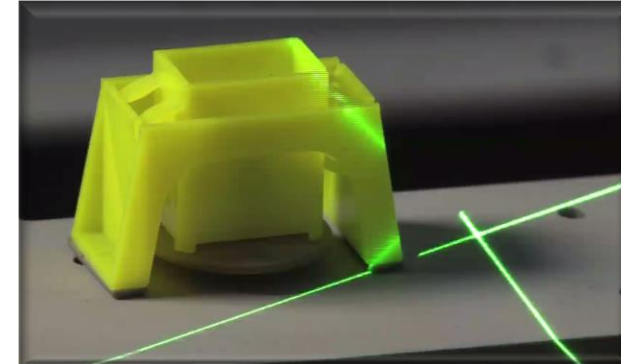   - In R&D facilities or processes with long cycles times, and/or small QTY production.

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Part Verification & Reporting

- P/N 24-0300-0018-00
- Verifies the presence of added components on a part.
- Each Part is accompanied by a verification report that can be viewed even during the production process.
- Accuracy
  - Automatic (Laser); 2mm
  - Manual (Probe): 1mm
- This module is best used:
  - When rework and traceability and are big customer concerns

Iris Part Verification Report

Work Order	Verify Sample Report	Date Created	10/3/2014 7:11:55 PM
Part Name	S/N 1003452AB	Units	Inches
Percent Complete	98	Fail Rate	1 out of 44 failed.

Name	Layer	Tolerance	Status	Error Value	Time Verified	Measured Location	Expected Location	Normal Vector
TS2015_1	Trans case	0.375	Pass	0.027351	10/3/2014 7:15:33 PM	(-1.732401, 1.872078, 0.658745)	(-1.710127, 1.836361, 0.653071)	(0.301177, 0.953568, 0)
TS2015_2	Trans case	0.375	Pass	0.00238	10/3/2014 7:16:28 PM	(-1.716498, 1.840869, 1.69738)	(-1.715684, 1.838116, 1.696968)	(0.301177, 0.953568, 0)
TS2015_3	Trans case	0.375	Pass	0.028435	10/3/2014 7:16:30 PM	(-1.708955, 1.806171, 4.586403)	(-1.712532, 1.83712, 4.581491)	(0.301177, 0.953568, 0)
Block 1	Trans case	0.25	Pass	0.043082	10/3/2014 7:16:31 PM	(0.334633, 1.519418, 2.180049)	(0.333092, 1.5625, 2.177522)	(0, 1, 0)
Block 2	Trans case	0.25	Pass	0.010789	10/3/2014 7:16:33 PM	(3.794956, 1.551711, 3.779142)	(3.796063, 1.5625, 3.773492)	(0, 1, 0)
Block 3	Trans case	0.25	Pass	0.056494	10/3/2014 7:16:35 PM	(-7.149323, 2.006006, 4.466962)	(-7.144022, 2.0625, 4.464069)	(0, 1, 0)
TS2015_4	Trans case	0.375	Pass	0.01638	10/3/2014 7:16:36 PM	(-1.710219, 1.838107, 0.657288)	(-1.710127, 1.836361, 0.653071)	(0.301177, 0.953568, 0)
TS2015_5	Trans case	0.375	Fail	0.13719	10/3/2014 7:16:37 PM	(-1.917789, 2.000168, 1.699157)	(-1.715684, 1.838116, 1.696968)	(0.301177, 0.953568, 0)
TS2015_6	Trans case	0.375	Pass	0.030449	10/3/2014 7:16:39 PM	(-1.71033, 1.804493, 4.586886)	(-1.712532, 1.83712, 4.581491)	(0.301177, 0.953568, 0)
Block 7	Trans case	0.25	Pass	0.047963	10/3/2014 7:16:41 PM	(0.335861, 1.514537, 2.180892)	(0.333092, 1.5625, 2.177522)	(0, 1, 0)

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IRIS SPS SCALE BAR AND SCALE BAR TRIPOD

- Iris SPS Scale Bar and Scale Bar Tripod
  - Needed to calibrate Cameras
  - Scale Bar (P/N: 24-0900-005-01)
  - Scale Bar Tripod (P/N 24-0100-0309-00)

VIRTEK

- Marker dots (roll of 1000)
  - P/N: 24-0101-0316-00

- Magnetic marker Kit
  - P/N: 24-0900-0031-00

- Point probe
  - P/N: 24-0900-0014-01

- Point probe tip
  - P/N: 24-0100-0326-01

- 6mm Ball Probe
  - P/N: 24-0900-0013-01

- Ball probe tip
  - P/N: 24-0101-0304-00
- J Ball probe
  - P/N:24-0900-0034-01

- Remote control
  - P/N: 14-0200-0062-00

- Replaceable Laser Module
  - P/N: 18-0900-0108-03