MeasurLink Common Functions

• Operating environments
[Operating System]
Microsoft Windows 7 (32-bit/64-bit)
Microsoft Windows 8.1 (32-bit/64-bit)
(Microsoft Windows 8.1 RT is not supported)
Windows 10 (32-bit/64-bit)
(Windows 10 Mobile and IoT editions are not supported)
[Data base]
Microsoft SQL Server 2017 Standard / Enterprise Edition
Microsoft SQL Server 2016 Standard / Enterprise Edition
Microsoft SQL Server 2014 Standard / Business Intelligense / Enterprise Edition

RT Pro/RT Pro 3D Common Functions

• Connectable measuring instrument
· Mitutoyo Measurement Data Management System (equipped with PC data processing unit)
[Supported data processing software]
· CMM: **MCOSMOS V3.2** or later
· Vision System: **QVPAK V10.0** or later/**QSPAK V10.2** or later/**QSPAK MSE V3.1** or later/**QIPAK V4.1** or later
· Vision unit: **QSPAK VUE V4.1** or later
· Surface Roughness/contour instruments: **FORMTRACEPAK V5.311** or later
· Roundness instruments: **ROUNDPAK V7.0** or later
· Hardness testing machines: **AVPAK V2.0** or later
• Filter function
Keyword items for data extraction
· Measurement data (year, month, day, time, week, etc.)
· Serial No.
· Traceability information (e.g. Inspectors, Machine No., etc.)
· Alarm item
• Import function for text data
· Default format files (mbf, dfq, etc.)
· Customize function
A template can be created according the ASCII file to be imported.

RT Pro 3D functions

• Screen display mode when collecting data
· 3D view

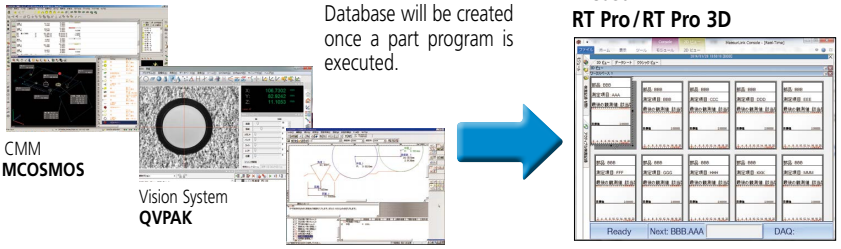
Functions		Data collection software		
		Real-Time Standard	**Real-Time Professional**	**Real-Time Professional 3D**
Collected data display	Classic SPC view	✓	✓	✓
	Data sheet	✓	✓	✓
	2D view	✓	✓	✓
	3D view (Hoops)			✓
Data extract	Filter		✓	✓
Input from tools and devices	Measuring tools (RS-232C, USB)	✓	✓	✓
	Measuring instruments (DDE)		✓	✓
Text input	Import		✓	✓

Table 1 Data collection/analysis software **Real-Time** functional comparison

• **Real-time Professional 3D** is a full-spec package. The feature to be measured can be displayed in detail using 3D CAD data.

• Automatic linking with part programs

Linking with part programs created in CMM or Vision Measuring Systems, data such as part no.; measurement item; nominal size; tolerance value and more can be loaded from a part program. A database to store all of the data is automatically configured when a part program is run.



Once storage is created, data is automatically written in the database every time the part program is executed, and the statistical result will be displayed.

• Filtering function

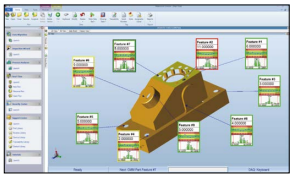
Required data can be easily extracted based on the date and time of the measurement, added comments, or alarms.

• Import function

Measurement data saved in ASCII files can be loaded. Also, a feature to customize a template for loading according to the format is provided.

• Real-time Professional 3D is a full-spec package

The feature to be measured can be displayed in detail using 3D CAD data.



[3D view]

3D graphics library HOOPS displays real view of the workpiece using an hsf file created from 3D CAD data. The displayed workpiece image can be freely turned, translated, or scaled so that you can get a clear view of the feature to be measured.
The word balloons and lead lines that display the measurement result and measured feature will move following the CAD data translation.

MeasurLink Automatic Report Generation Program

MeasurLink Report Scheduler

Automatically generates a report created by the **Real-Time (RT Std/RT Pro/RT Pro 3D)** or **Process Analyzer (PA Lite/PA Pro)** modules, each of which is connected to the network according to a specified schedule.

The Use of MeasurLink Report Scheduler

• Typical applications

• Automatic generation of a weekly report specified from among last week's data.
• Automatic report generation by extracting only data with tag information about "tool replacement" (due to wear, breakage, etc.)
• Automatic generation of a daily report for each shift by filtering inspection record data on the basis of a shift

MeasurLink Report Scheduler common functions

• Report output destinations

• Printer, file, E-mail (as an attached document)