Rheology Navigator 2 Software is a 32-bit multitasking program for the Windows™ operating system. It is designed to work with the relevant run and data modules of Rheology Advantage software as a platform for linking together any desired sequence of programmed commands. This written list of operations that the software performs is called a script. The use of scripts can automate all rheometer functions and the production and analysis of results for all experiments. Specific benefits provided by Rheology Navigator 2 and 2 Plus software include:

**EASE OF DEVELOPMENT OF SCRIPTS**
- NEW “RECORD” mode allows recording of all normal rheometer and data analysis functions (similar to macros) directly into a script
- For manual script development, the editor prompts the correct use of statements and syntax and the assist function gives additional help
- Simple scripts may be written in Standard mode, with an Advanced mode using the complete range of commands for more complex scripts
- Errors in scripts are highlighted during development to permit easy correction
- Any script may be run from within another, allowing the incorporation of previously developed methods
- A “Toolkit” of basic rheometer functions and mini-scripts is supplied which can be incorporated in new scripts

**AUTOMATION OF MEASUREMENTS AND ANALYSIS**
- Scripts can be used to run a particular method repeatedly on a number of similar samples with an operator only having to change samples at prompted intervals
- Operator inputs are validated automatically against predefined ranges and can be used to semi-customize a generic script to suit specific needs
- Rheometer and Data Analysis functions may be combined to perform a test protocol unattended (“Load and Go” operation)
- Self diagnostic scripts are supplied that can be used to check correct rheometer operation

**SECURITY APPLICATION AND RUN LOG**
- User lists define each individual operator’s ability to run or amend particular scripts
- Previously developed scripts can be secured from alteration by other users
- Run Log is updated as each new operator accesses the software or runs a script
- Software can monitor the correct adherence to established QC tests (ISO 9000)
RHEOLOGY NAVIGATOR 2 PLUS
INCLUDES THE FOLLOWING ADDITIONAL FEATURES:

CONDITIONAL EXECUTION
- Statements may be written that allow the software to “make intelligent decisions” based on operator input or the results already obtained from a particular sample.
- Use of these statements in scripts allows automation of decisions and hence complex methods can be followed automatically.

DEBUG MODE
- Scripts can be run step by step to resolve structure errors and ensure correct operation.

HARD COPY CUSTOMIZATION
- Printouts may be customized with text and variables from within the script.

NAVIGATOR COMPENDIUM
- An “Expert” system that presents any operator with access to a wealth of rheological knowledge:
  - To gain the best data from their samples
  - To help choose the correct geometry
  - To select and perform the most appropriate test
  - To help with the interpretation of data
- The operator may choose from a large number of typical rheological tests (Flow, Creep, Oscillation, Time Temperature Superposition, etc.)

APPLICATIONS

QUALITY CONTROL
- QC Technicians, with no experience of rheometer operation, can use predefined scripts to follow established test methods.
- Complex methods, that mimic real-life use of materials, can be followed by linking a number of rheometer functions automatically.
- The powerful Data Analysis functions can be used to define critical product pass/fail criteria.
- QC technician functions can be limited to loading and cleaning off samples.
- The correct performance of a test is recorded in the Run Log.

RESEARCH AND DEVELOPMENT
- Productivity may be increased by the ability to run long or complex experiments unattended.
- Repetitive testing at different experimental conditions may be automated.
- A library of scripts may be built up. These can be easily altered to prepare new scripts.
- Results may be analyzed and compared automatically based on a number of theoretical models.
- The transfer of complex methods from the laboratory to a QC environment can be simplified.

MATERIALS SCIENTIST
- The recall of stored methods reduces experimental set-up time and therefore increases productivity.
- The Record mode permits any rheometer user to record normal functions as a macro which then becomes a fully functional script.
- Unattended operation allows tests on other instruments to be run simultaneously.
- The Navigator Compendium can be used to develop rheological knowledge and reduce the learning curve associated with the rheometer.
CHOICE OF COMPUTERS

A complete rheology system consists of an instrument(s) and a computer (controller) configured with software. TA Instruments offers several controller options. Contact your local TA Instruments Representative for further information.

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TA INSTRUMENTS COMMITMENT

All TA Instruments rheology products are designed and engineered to assure easy, reliable, trouble-free operation. These are supported by a full range of services, including an applications laboratory, publications, training courses, seminars and a telephone Hotline for customer consultation. Highly qualified TA Instruments service personnel, specialised in rheometer maintenance and service, are available throughout the world. All these items reflect TA Instruments commitment to providing thermal analysis and rheology products and related services that deliver maximum value for your investment.

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