

USER'S GUIDE



Preface

Datacolor MONITOR™

User' Guide

english

Version 1.0

February 2005

All efforts have been made to ensure the accuracy of this Guide. However, should any errors be detected, Datacolor would greatly appreciate being informed of them.

Changes are periodically made to the information and will be incorporated in new editions of the guide.

Datacolor reserves the right to make improvements and/or changes in the product(s) and/or program(s) described in this guide at any time.

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Throughout this manual, trademarks are used. Rather than place a trademark symbol at every occurrence of a trademark name, we state here that we are using the names in an editorial fashion with no intention of infringement the trademark.

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1

About

About this Guide

Who Should Use this Guide?

This is the Datacolor MONITOR User's Guide. It is to be read by users of the Datacolor MONITOR system, who need to know how to begin using the programs. Once you are familiar with Datacolor MONITOR, this guide provides a reference to help you carry out specific tasks using the system. This guide assumes you are familiar with Microsoft Windows.

How to Use This Guide

This guide is divided into the following main chapters:

| | | |
|---|---|---|
| | Preface | Edition, copyright and trademarks, important addresses. |
| | Contents | Table of contents. |
| 1 | About | Information about this guide. |
| 2 | Installation | Installation description for Datacolor MONITOR. |
| 3 | Configuration and Administration | Configuration and administration of Datacolor MONITOR. |
| 4 | Using Datacolor MONITOR | This chapter provides you with the basic information you need to start and use the system. A step by step description shows you the specification of the basic data and the calculation and correction of recipes. |
| 5 | Maintenance and Error Handling | Maintenance of the spectrophotometer, the database and error handling. |
| 6 | Windows and Dialog Boxes | Description of the windows and dialog boxes with their parameters. In Chapter 2 Installation , Chapter 3 Configuration and Administration and Chapter 4 Using Datacolor MONITOR , some dialog boxes are described in connection with their use. |
| 7 | Index | The index should help you to find the descriptions you need. |

Type Styles and Symbols

The following type styles and symbols have been used in this guide:

- References to other chapters and sections of this guide are shown in italics, e.g., Refer to *General Table Functions*.
- Screen texts (window titles, parameter names, etc.) are written between double quotes, e.g., "Explorer" window.
- If a user action is requested, menu functions or button names are highlighted in bold, e.g., Click **Save**.
- A note is used to draw your attention to additional useful information, e.g.:

**Note:**

Leave the spectrophotometer to warm up for a few minutes. Datacolor recommends that for the greatest accuracy you should wait thirty minutes before calibrating.

- A caution symbol is used to draw your attention to potential hazards, e.g.:

**Caution**

An alteration of these parameters can interrupt the communication between the PC and the spectrophotometer.

2

Installation

Supported Operating Systems

Workstations

Windows XP Professional

Windows 2000 Professional

Windows NT 4.0, service pack 4 or higher

Windows 98 **Not recommended!**

Server

Windows XP Server

Windows NT Server, service pack 4 or higher

Windows 2003 Server

Installing Datacolor MONITOR

| Action | Result |
|--------|---|
| 1 | <p>Insert the Datacolor MONITOR compact disc into the CD-ROM drive.</p> <p>The installation program starts automatically.</p> <p>If the installation does not start automatically, select Run on the Windows start menu, type</p> <p><drive ID>:\setup</p> <p>(<drive ID>: is the identification of the CD-ROM drive, e.g., D:.)</p> <p>in the "Open" field of the "Run" dialog box, and click OK.</p> |
| 2 | <p>Follow the advice of the installation program.</p> |



Note

After installation, the software runs in the demonstration mode and must be validated. Refer to [New Installations on page 2-4](#).

Updating Datacolor MONITOR

For the installation of an upgrade, refer to the installation description of the update and to [Installing Datacolor MONITOR on page 2-2](#).



Caution!

- ***The database is upgraded by the update program. But, it is strictly recommended to back up the database before updating. Otherwise, for some versions of the program the database could be deleted and lost.***



Note

- If an old DCIMatch, SmartSort, CentersideQC or Fibramix program is updated to one of the new Spectrum Textile software products, the old software is removed during the installation of the new Spectrum Textile products like Datacolor MATCH, Datacolor SORT.
- If the software security key is not accepted after updating the software runs in the demonstration mode and must be validated. Refer to [Existing Installation on page 2-5](#).

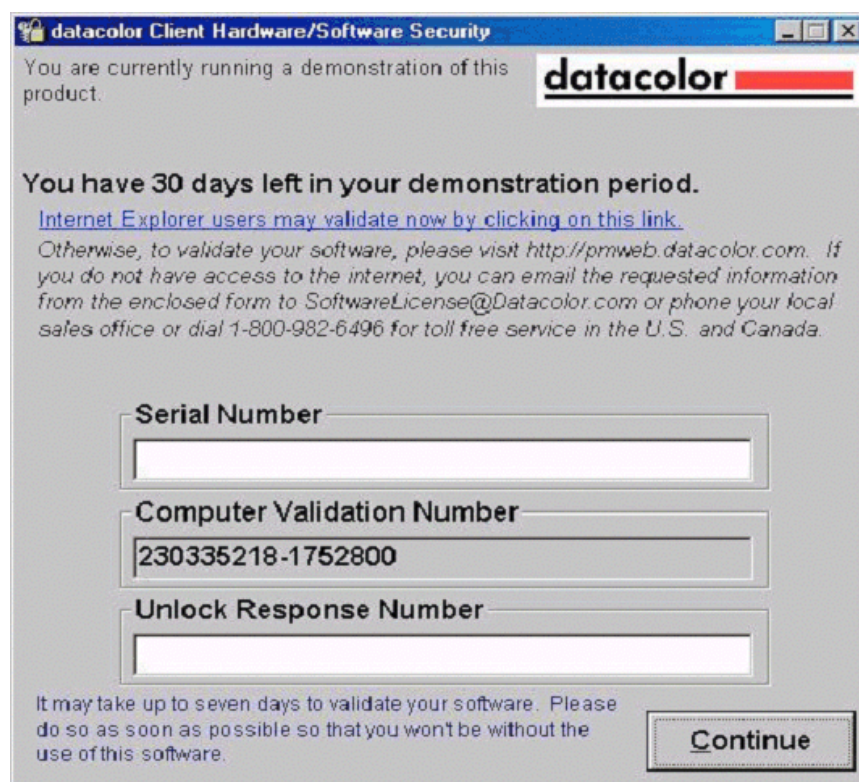
Datacolor Security System

A new Software/Hardware security system replaces the old software protection provided by the green parallel port security key.

New Installations

New purchases receive a sticker containing their serial number. This is typically found on the corner of the jewel case.

The software can be installed normally. After installation and if the software is running for the first time, the following dialog box appears:



From the date of the first use, you have 30 days to validate the software. (Any attempt to change this system date will immediately end the demonstration period.)

- 1 During this period, press the **Continue** button to start the software in demonstration mode. It is possible that not all features will be available while in the demonstration mode.

The users should validate their software as soon as possible, as it may take up to seven days to do so.

- 2 Visit <http://pmweb.datacolor.com>, call the local sales office, the Lawrenceville or Dietlikon call centers or mail the necessary information to Datacolor (SoftwareLicense@Datacolor.com) using the validation instruction sheet provided with the software.

Existing Installation

If you already have one of the following Datacolor software packages: Datacolor MONITOR, MatchExpress, or Datacolor Process, that run using a green software security key and receive an upgrade due to an upgrade purchase or a software maintenance agreement that does not require re-licensing, your software will run as before. Continue to use the green software security key.

What Happens if the Software Security Key Stops Working?

If the software security key fails to work for any reason, the software will be converted to the fourteen days demonstration period. The user then has two options:

- First, check the software security key and make sure that it is still properly attached to the system. If not, reattach it and the software should run normally.
- If it is attached and still fails to respond, the software security key may have failed. Use one of the methods listed in the [New Installations](#) section to contact Datacolor for validating the software using the software security component.

What Happens if the User Changes Computers?

If the user needs to change computers, the software will need to be re-validated. Simply follow one of the procedures listed in the [New Installations](#) section to contact Datacolor with an explanation of why you need to re-validate your software. The validations will be tracked in the Datacolor network to detect any abnormalities and protect the value of your software purchase.



Note

In this case, the website will not directly validating the user's software, but an email will be generated for a validation request.

Upgrading Your Purchase

Some software packages offer the ability to upgrade the user's purchase level. Using the software security model, it is now easier for users to upgrade their purchase if they want a higher level of software or a new feature module. Simply contact your sales representative to make the purchase. You will be issued a new serial number and a new validation number for your computer. That enables you to run the new features.

Removing Datacolor MONITOR

| | Action | Result |
|---|---|--|
| 1 | On the Windows desktop, double-click the My Computer icon. | The "My Computer" dialog box appears. |
| 2 | Double-click Control Panel | The "Add/Remove Programs Properties" are opened. |
| 3 | Double-click Add/Remove Programs . | The "Add/Remove Programs Properties" are opened. |
| 4 | Select "Datacolor MONITOR", click Add/Remove , and confirm the removing. | Datacolor MONITOR is removed. |
| 5 | If Sybase is not used again (,e.g., for Datacolor Process,) it can also be removed. | |

3

Configuration and Administration

User Administration

Specifying, Modifying and Deleting User's Data

**Note**

Only the user "DCI" can specify and modify user's data.

| | Action | Result |
|---|--|---|
| 1 | On the Tools menu, select User Manager - User Administration . | The "User Administration" dialog box appears. |
| 2 | In the "User's List," select a user, and click: Add to specify a new user; Remove to delete of a user's data. Rename to rename a user; | Add: The "Add a New User" dialog box appears. Insert name and password, and click OK . Remove: The user data is removed after confirmation. Rename: The "Rename a User" dialog box appears. Specify the new name, and click OK . |
| 3 | If finished, click Close . | The "User Administration" dialog box is closed. |

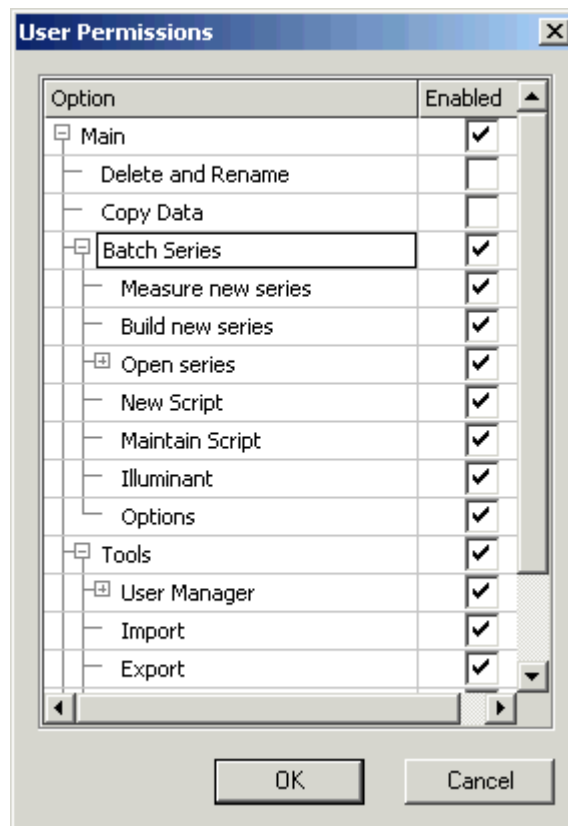
Changing the Password

**Note**

The user „DCI“ cannot be deleted and has all access rights. These rights cannot be modified.

| | Action | Result |
|---|--|---|
| 1 | On the Tools menu, select User Manager - Change Password . | The "Change Password" dialog box appears. |
| 2 | Insert the old and new password, and confirm the new one. | |
| 3 | Click OK . | The password is changed. |

Access Rights



| | Action | Result |
|---|--|---|
| 1 | On the Tools menu, select User Manager - User Administration . | The "User Administration" dialog box appears. |
| 2 | Select the requested user and click Permissions . | The "User Permissions" dialog box appears. |
| 3 | Set the permissions and click OK . | The "User Permissions" dialog box closes. |
| 4 | In the "User Administration" dialog box, click Close . | The "User Administration" dialog box closes. |

Available options



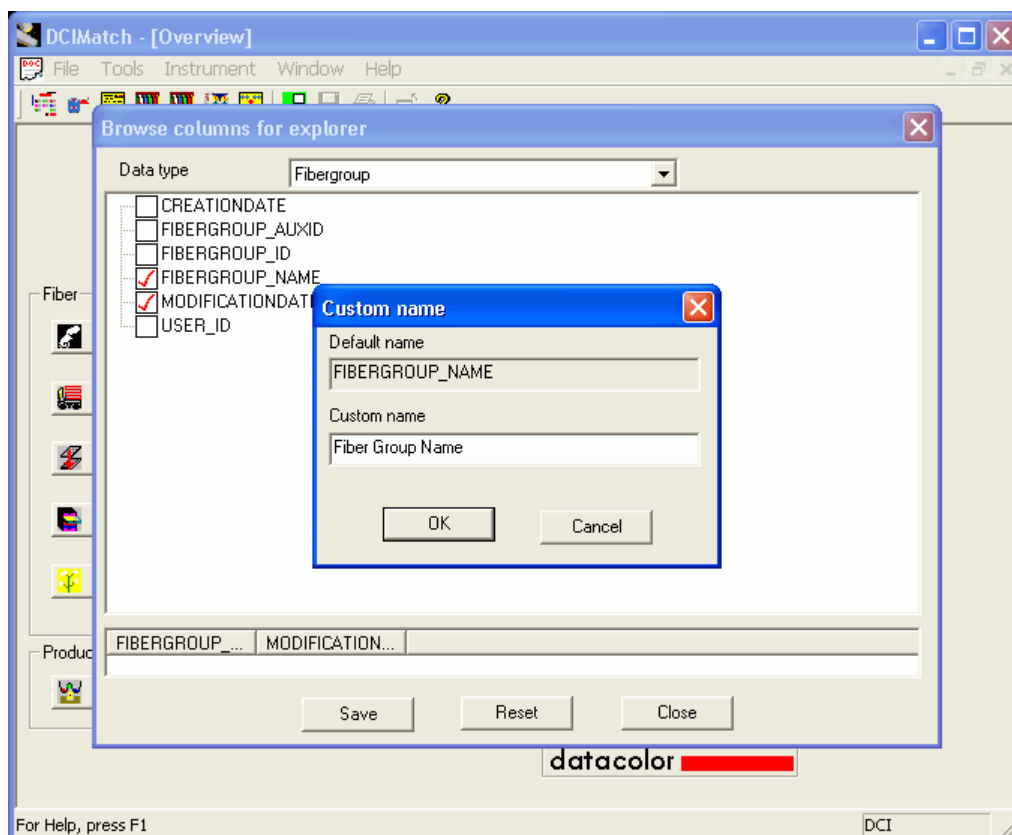
Note

The setting of a user right is valid for all attached rights at lower levels.

| Level | Lower Levels Included | Option |
|-------|-----------------------|----------------------------------|
| 0 | + | Main |
| 1 | | Delete and Rename |
| 1 | | Copy Data |
| 1 | + | File |
| 2 | + | Basic Data |
| 3 | | Product |
| 3 | | Quality/Style |
| 3 | | Dye Process |
| 3 | | Customer |
| 3 | | Color Type |
| 3 | | Parameter Definition |
| 3 | | Tolerance |
| 3 | | Combined Process |
| 3 | | Operation |
| 3 | | Sample |
| 3 | | Fiber |
| 3 | | Fiber Group |
| 3 | | Affinity |
| 3 | | Substrate Delivery |
| 3 | + | Browse Data |
| 4 | | Illuminant List |
| 4 | | Sample List |
| 4 | | Color Type List |
| 4 | | Tolerance List |
| 4 | | ... (refer to menu „Basic Data“) |
| 3 | | Display |
| 3 | | Print |
| 3 | | ASCII Output |
| 2 | + | Recipe |
| 3 | | History |
| 3 | | Match |
| 3 | | Match in Background |
| 3 | | ... (refer to menu „Recipe“) |
| 2 | + | Colorant Set |
| 3 | | Colorant Set Calibration |

| Level | Lower Levels Included | Option |
|-------|-----------------------|---------------------------------------|
| 3 | | Colorant Set |
| 3 | | Display |
| 3 | | Print |
| 2 | + | SmartMatch |
| 3 | | <i>All menu options of SmartMatch</i> |
| 2 | + | Batch Series |
| 3 | | <i>All menu options of SmartMatch</i> |
| 2 | | Send Mail |
| 2 | | Scan Mail |
| 2 | + | Production |
| 3 | | Dye Lot |
| 3 | | Production Recipe |
| 3 | | Administration |
| 1 | + | Tools |
| 2 | | Tool Bar |
| 2 | | Status Bar |
| 2 | + | User Manager |
| 3 | | Change Password |
| 3 | | User Administration |
| 2 | | ... (Refer to menu „Tools“) |
| 2 | + | Options (exception: dialog tabs) |
| 3 | | View |
| 3 | | Dispenser |
| 3 | | Stock Solution |
| 3 | | Unit Selection |
| 3 | | Print |
| 2 | | Import |
| 2 | | ... (Refer to menu „Tools“) |
| 1 | + | Instrument |
| 2 | | <i>All menu options of Instrument</i> |

Browser Customizing



You can select the table columns to be displayed as follows:

| Action | Result |
|---|---|
| 1 On the context-sensitive menu, select User's Browser Definition . | The "Browse Columns for Explorer" dialog box appears. |
| 2 Select the data type (table). | The related data tree is displayed. |
| 3 Check the boxes, the table columns have to be displayed. | In the footer of the dialog box, the checked table column titles are displayed. |
| 4 Click Save . | The settings for the selected table are saved. |
| 5 Repeat steps 3 and 4 to display other table columns. Repeat steps 2 to 4 to alter the display of other tables. | |
| 6 Click Close to close the "Browse Columns for Explorer" dialog box. | |



Note

The **Reset** button deselects all table columns except the object name. It is used if the performance of displaying is not acceptable.

You can alter the column titles of the tables as follows:

| | Action | Result |
|---|--|---|
| 1 | On the context-sensitive menu, select User's Browser Definition . | The "Browse Columns for Explorer" dialog box appears. |
| 2 | Select the data type. | The related data tree is displayed and the checked table column titles are displayed in the footer of the dialog box. |
| 3 | A double-click in a table column title opens the "Custom Name" dialog box. | Refer to the figure on the previous page. |
| 4 | Specify the custom name, and click OK . | The table column title is altered. |
| 5 | Repeat steps 3 and 4 to alter other table column titles. | |
| 6 | Click Save . | |
| 7 | Click Close to close the "Browse Columns for Explorer" dialog box. | |

Using the mouse, you can change the sequence of the table columns by drag and drop.

You can alter the position of column titles by drag and drop:



Browse Filters

It is possible to specify customized filters (queries) for selecting data from the database. Customized filters can be ordered from Datacolor. Please contact your Datacolor distributor for more information.



Note

- The integrated tool for customizing filters needs advanced know-how of both the database and SQL.
- Filters are language dependant. They can only be specified and used with applications that have the same application language.

Using Browse Filters

| Action | Result |
|--|--|
| 1 On the context-sensitive menu of the requested list window, click Filter . | The "User Definable Filters" dialog box appears. |
| 2 In the „Prepare Filter“ tab, select the filter, type the identification(s) of the objects in the fields, and click OK . | The selected objects are displayed in the list window. |

Disabling Browse Filters

| Action | Result |
|---|--------|
| 1 On the context-sensitive menu of the requested list window, click Reset Filter . | |

Exporting and Sending Browse Filters

A filter definition can be exported to a file or be attached to an e-mail.

| Action | Result |
|--|--|
| 1 In the „Define Filter“ tab of the “User Definable Filters” dialog box, | |
| <ul style="list-style-type: none"> click Export to export the filter definition to a file. | The „Save as“ dialog box appears. The file can be saved with the extension „.dmf“. |
| <ul style="list-style-type: none"> click Send Mail to mail the filter definition. | The e-mail form appears and the filter definition file is attached. |

Importing Browse Filters

| | Action | Result |
|---|--|---|
| 1 | In the „Define Filter“ tab of the “User Definable Filters” dialog box, click Import . | The „Open“ dialog box appears. The file with the extension „.dmf“ can be opened and imported. |

Importing Browse Filters directly from the E-mail

| | Action | Result |
|---|--|--|
| 1 | On the File menu of the overview window, click Scan Mail . | All attached files with the extension „.dmf“ are searched und displayed in the „Loading Filters from Mail“ dialog box. |
| 2 | Select the requested files, and click Load . | The selected files are imported. |

Import and Export

Datacolor MONITOR supports the import/export of samples and colorant sets with different file formats:

- Sample Import/Export with Datamatch format (*.EXP, *.EXQ files)
- Sample Import/Export with Datacolor Envision or Datacolor Tools (*.QTX files)
- Sample Import/Export with Datacolor MONITOR (*.XML files)
- Colorant Set Import/Export with Datacolor MONITOR (*.XML files).

The XML files may become very big (a file with 120 samples is about 370KB). You can compress them drastically (24 KB) using WinZip.



Note

Internet Explorer Version 5.01 Sp2 or higher must be installed to run the Import/Export of XML files.

Exporting Data

Export function for color samples.

| | Action | Result |
|---|---|---|
| 1 | On the Tools menu, select Export . | The "Export" dialog box appears. Refer to Export Dialog Box on page 6-33 . |
| 2 | Select the data type and the format. | Attention: Datamatch, Datacolor Tools or Datacolor Envision cannot import XML files. |
| 3 | Specify path and file name of the export file or use the browse function, and click Export . | |

Importing Data

| | Action | Result |
|---|---|---|
| 1 | On the Tools menu, select Import . | The "Import" dialog box appears. |
| 2 | Specify path and file name of the import file or use the browse function. | Refer to Import Dialog Box on page 6-32 . Refer to Importing Colorant Sets on page 3-13 for importing colorant sets. |
| 3 | Click OK . | If the corresponding options are set, all or the existing samples are prompted. You can Save , Save with Prefix , or Skip them. |



Note

- Samples are not imported if either the name or the spectral data is the same as data that already exists in the database.
- The import function compares the spectral data when the sample name already exists. A new sample is only created if the spectral data is different. E.g., if sample „Blue 4711" is already in the database, the imported sample, which has the same name but different spectral data, is imported as „Blue 4711 - 001".
- Samples imported from EXP files are always stored in the database. If the sample name already exists, a new sample is created with an extension in the name, e.g. sample „Blue 4711" is saved as „Blue 4711-0".

Importing Colorant Sets



Note

- If you import a colorant set that already exists, the program updates the new data. Calibration data is always updated. **Dyestuff prices are not imported.**
- If the fiber of the colorant set does not exist in the database, a dialog opens where you can select an equivalent from your database.
 - ❶ This is to avoid creating the same fibers in different languages (e.g. Co, Bw, etc).
- If there is no fiber in the database that matches the fiber of the colorant set, click **No Match** ❷. A new fiber is then created.
- Click **OK** to start the import.

Fiber

Fiber of Dyeset:

Please select fiber which matches fiber of dyeset or click 'No Match'

Fibers available:

- ☒ CO
- ☐ PES
- ☐ SI
- ☐ VI
- ☐ WO

Fiber Creation

Fiber ID:

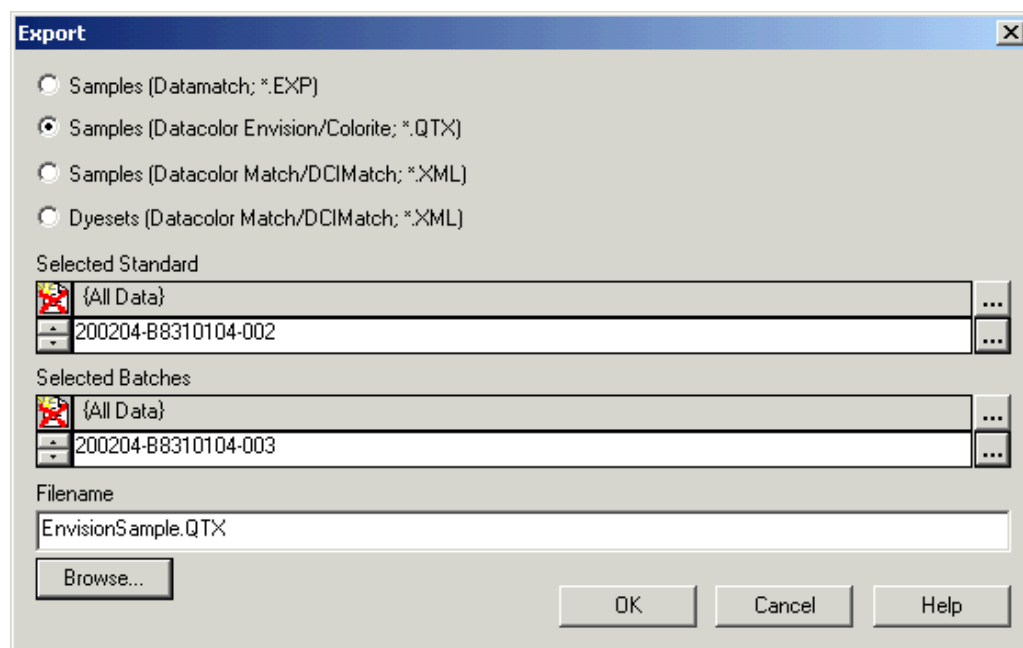
Fiber Name:

**Note**

- The dye class is treated in the same way as the fiber.
- If the dye class of the colorant set does not exist in the database, a dialog opens where you can select an equivalent dye class from your database.
 - ❶ This is to avoid creating the same dye classes in different languages (e.g. Dispersion, Disperse, or Cationique and Basic etc).

If there is no dye class in the database that matches the dye class of the colorant set, click **No Match** ❷. A new dye class is then created.
- ❸ You can modify the dye class ID and name before you start the import.
- Click **OK** to start the import.

Importing and Exporting Samples as QTX Files



Datacolor MONITOR can export/import samples to/from QTX files. A file always contains a standard and its batch(es). It is not possible to select more than one standard. In this case, you must specify multiple export files.



Note

If you select only batches, the dialog box closes when you click „OK“. No samples are then exported.

Backing Up Using Datacolor MONITOR

The backup function saves the database to the selected target drive and folder.

| | Action | Result |
|---|---|---|
| 1 | On the “Tools” menu, select Backup . | The “Backup” dialog box appears. |
| 2 | Specify target drive and path (or use the browse button), and click OK . | The contents of the database are saved. |



Caution

Before the backup is made all databases are validated. This may take up to several minutes depending on the size of the databases. If there is a problem with one of the databases, a message is displayed and the backup is not made. An old backup must be restored in this case.

Backing Up Using Sybase Utilities

The backup utility is used to store running databases, database files, transaction logs, and write files.

You can access the backup utility ...

- using Sybase Central, or,
- using the system command line to call the **dbbackup** utility. This utility can be used for specifying batch or command files.

The backup utility copies the database file and the transaction log of a single database.

Backing Up Using Sybase Central

Backing Up A Running Database

| | Action | Result |
|---|--|--------|
| 1 | Start Sybase Central . | |
| 2 | Connect the database. | |
| 3 | Right-click the database and select Backup on the context-sensitive menu. | |
| 4 | Follow the instructions of the wizard. | |

Backing Up A Database File or A Running Database

| | Action | Result |
|---|---|--------|
| 1 | Start Sybase Central . | |
| 2 | Open the „Utilities“ folder in the left panel. | |
| 3 | Double-click the Backup Database in the right panel. | |
| 4 | Follow the instructions of the wizard. | |

The dbbackup Command

Syntax

Dbbackup [switches] *path*

Switches

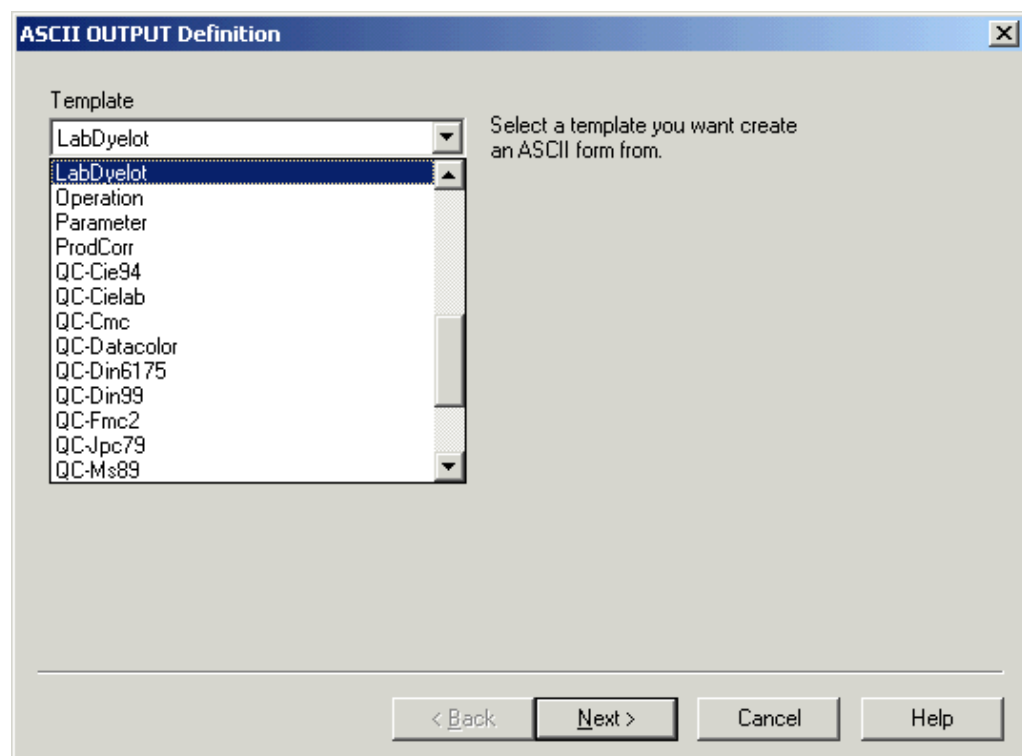
| Switch | Description |
|---------------------|--|
| -c „keyword=value“ | Database connection parameters. If the connection parameters are not specified, the parameters of the SQLCONNECT environment variable will be used (if they are set). Parameters: eng= <i>engine</i> dbn= <i>database name</i> uid= <i>user ID</i> The user must have DBA authority or REMOTE DBA authority. pwd= <i>password</i> |
| -d | Only stores the main database file. |
| -l <i>file name</i> | Stores the transaction log file to a file with the specified name. |
| -n | The switch is only active, if the switch -r is set. Changes the name of the transaction log file to the following format: yymmddnn.log yy year mm month dd day nn number in the range of 00 to 99. |
| -o <i>file name</i> | Creates a file for the log output. |
| -q | Quiet mode: Messages are not printed. |
| -r | Rename and start a new transaction log. |
| -t | Only stores the transaction log. |
| -w | Only stores the write file. |
| -x | Deletes and restarts the transaction log. |
| -xo | Deletes and restarts the transaction log without backup. |
| -y | Replaces files without confirmation. |

ASCII Output (Option)

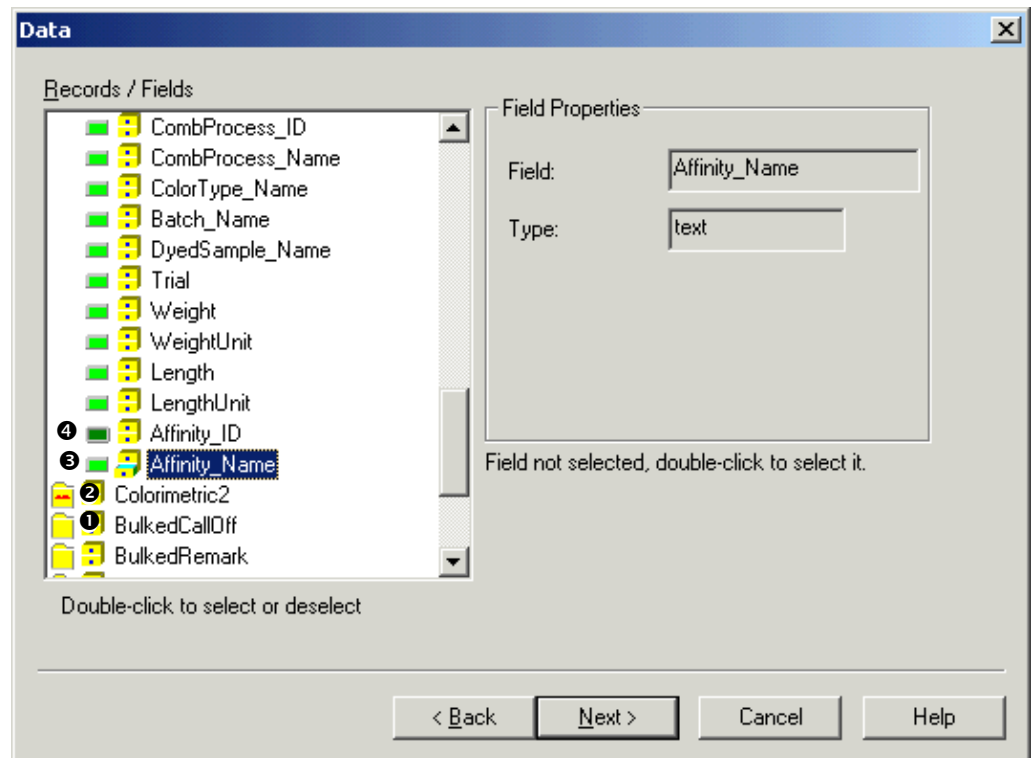
The ASCII output option supports writing data to an ASCII file when you can print data. This option includes specifying, modifying and deleting ASCII forms.

Specifying ASCII Forms

| Action | Result |
|---|---|
| 1 On submenu „ASCII Forms“ of the “Tools” menu, select New . | The “ASCII Output Definition” dialog box appears. |



| | |
|--|--------------------------------|
| 2 Select a template from the list, and click Next . | The „Data“ dialog box appears. |
|--|--------------------------------|



- ❶ Folder without selected fields. Click the folder to open or to close it.
 - ❷ Folder with selected fields (signed by red dots). Click the folder to open or close it.
 - ❸ Non-selected field with opened properties. Double-click the icon to select the field. Click the icon to close the field properties.
 - ❹ Selected field with closed properties. Double-click the icon to deselect the field. Click the icon to open the field properties.
-
- | | | |
|---|--|---|
| 3 | Select the fields to be written to the ASCII file. | The corresponding field properties are displayed. The number of decimal digits can be altered for all fields of type „double“. |
| 4 | Click Next . | The „Options“ dialog box appears. |

| | |
|--------------------------|--|
| Field Delimiter | If necessary, change the field delimiter. |
| Record Delimiter | If necessary, change the record delimiter. |
| String Delimiter | If necessary, change the string delimiter. |
| Field Description Line | Check the box if a field description line is required. |
| Field Description Prefix | If necessary, type a field description prefix. |
| File Name | Type the path and the file name. |
| File | Select „Append“ if the new records should be added to an existing file, or, select „Overwrite“ if the existing file should be overwritten. |

- 5 Click **Next**. The „ASCII Form Name“ dialog box appears.
- 6 Type the name of the form, and click **Finish**.

ASCII Output

| | Action | Result |
|---|--|---|
| 1 | In the corresponding list window, select the object that should be printed to an ASCII file. | |
| 2 | On the basic data menu, click ASCII . | The file is saved to the place specified in the ASCII form. |

Example: ASCII output of an affinity

```
@ "ID", "Name", "FiberGroup"
"55PES/45CV WASH", "55PES/45CV washed 70° C", "PES/VI"
@ "Fiber", "Part"
"Polyester", 55.00
@ "Fiber", "Part"
"Viscose", 45.00
@ "QualityID", "QualityName"
"55PES/45CV LICL", "55PES/45CV Libero Classic"
*****
@ "ID", "Name", "FiberGroup"
"CO3", "C04200 (BASF) geb1.BW-RENFORC", "CO"
@ "Fiber", "Part"
"Cotton", 100.00
@ "QualityID", "QualityName"
"S4", "C04200 (BASF) geb1.BW-RENFORC"
```

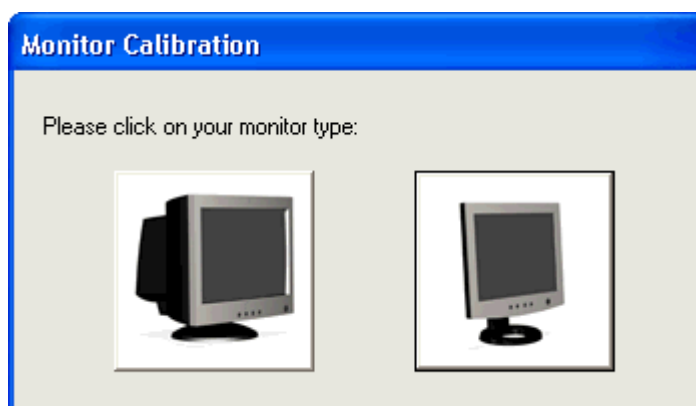
Calibrating the Monitors Using Datacolor SPYDER2

**Note**

This function is enabled if the Datacolor SPYDER2 is connected to the USB port.

This function is used to perform the monitor calibration for adjusting the color of the monitor. After calibrating the monitor, all color patches displayed on the screen are more similar to the color of the measured sample. A calibrated monitor enables you to judge and compare colors more correctly before dyeing.

| | Action | Result |
|---|--|--|
| 1 | In the „Tools“ menu, select Calibrate Monitor . | The assistant for monitor calibration appears. |



- | | |
|---|-----------------------------------|
| 2 | Follow the advises on the screen. |
|---|-----------------------------------|

Specifying Print Forms Using the Pager

The pager is used to specify print forms. A set of forms is delivered by Datacolor. The user can modify these forms or specify new ones.

Starting the Pager



1. On the Windows start menu or the desktop, click the Pager icon.
The "Pager" window appears.

Specifying A New Print Form

Refer to [Pager Window on page 6-35](#) for more information about the parameters.

| | Action | Result |
|----|---|--|
| 1 | In the toolbar or on the "File" menu, select New . | The "Template Identification" dialog box appears. |
| 2 | Select "Application", "Option" (object type), "Language", and "Version", and click OK . | An empty form appears containing all sections available for the selected option. |
| 3 | Click the section to be specified. Inactivate an unused section: On the Edit menu, select Hide Current Section , or select the requested section on the "Sections" menu. | The check mark is removed and the section is not used in the current print form. |
| | Specifying a text field: | |
| 1. | In the toolbar, select the text tool. | |
| 2. | Draw and place the requested text field. | |
| 3. | In the toolbar, select "Toggle Properties." | The "Properties" box appears. |
| 4. | Specify the text and change the other parameters if requested. | |
| | Specifying a database field: | |
| 1. | In the toolbar, select "Toggle Properties." | The "Fields" list box opens displaying all available fields. |
| 2. | Select and place the requested database field. The parameters of the fields can be altered using the "Properties" box. | A text field for the description and a field for the data is displayed. |

4 Draw rectangles and ellipses:

1. In the toolbar, select the rectangles or ellipses tool.
2. Draw and place the graph. The parameters of the graph can be altered using the "Properties" box.

Enter a bitmap graph:

1. In the toolbar, select the "Bitmap" tool and click the selected section.
2. Search and select the graph (supported are *.bmp, *.pcx, *.jpg graph), and click **Open**. The "Open" box appears.
3. Place the graph. The parameters of the graph can be altered using the "Properties" box.

Specifying date/time, page number or form (file) name:

1. In the toolbar, select the requested tool and place the field.

Remove all field from the current section:

1. In the toolbar, select the requested tool and place the field.

Deleting a field:

1. Select the field and press **Ctrl + Del**.
-
- 5 In the toolbar or on the "File" menu, select **Save (As)**. The "Form Name" dialog box appears.
 - 6 Specify a form name, and click **OK**. The new print form is created.
-

Modifying A Print Form

Refer to [Pager Window](#) for more information about the parameters.

| | Action | Result |
|---|--|---|
| 1 | In the toolbar or on the "File" menu, select Open . | The "Template Identification" dialog box appears. |
| 2 | Select "Application", "Option" (object type), "Language", and "Version", and click OK . | The selected form appears. |
| 3 | Alter the form as requested. Refer to Specifying A New Print Form on page 3-23 . | |
| 4 | In the toolbar or on the "File" menu, select Save , and click OK . | The print form is altered. |

Deleting or Renaming A Print Form

| | Action | Result |
|---|--|--|
| 1 | In the toolbar or on the "File" menu, select Delete/Rename . | The "Form Maintenance" dialog box appears. |
| 2 | Select the requested form. | |
| 3 | Rename: Click the form name, alter the name, and press ENTER . | The name is altered. |
| | Deleting: Select Delete , and confirm the deletion. | The selected print form is deleted. |

Importing Print Forms

| | Action | Result |
|---|--|--------------------------------|
| 1 | On the "File" menu, select Import . | The "Open" dialog box appears. |
| 2 | Search and select the form to be imported, and click Open . | The selected file is imported. |

Exporting Print Forms

| | Action | Result |
|---|---|--|
| 1 | On the "File" menu, select Export . | The "Form Maintenance" dialog box appears. |
| 2 | Select the form to be exported and click Export . | The "Save as" dialog box appears. |
| 3 | Select the path, specify a file name, and click Save . | The selected form is exported. |

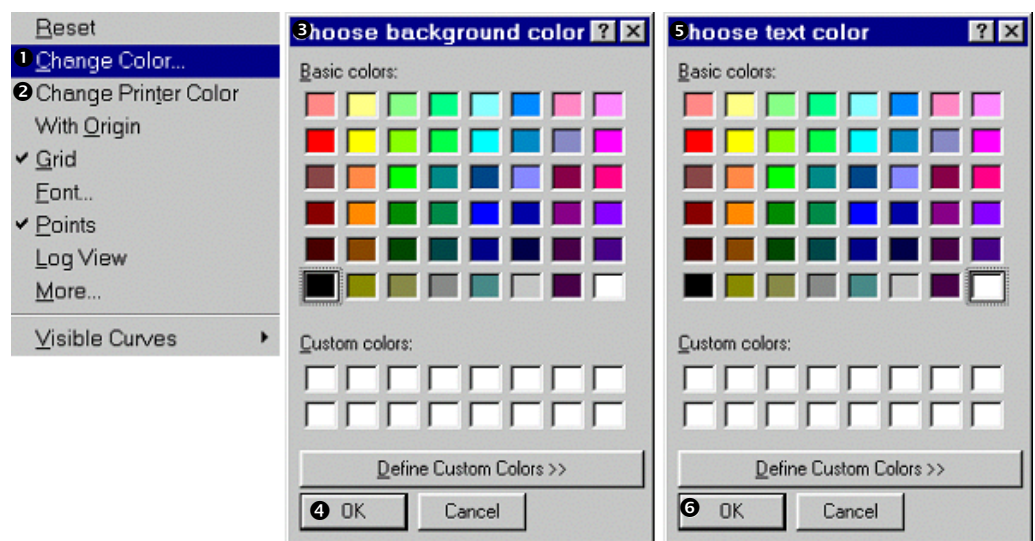
Customizing Graphs

The background color of all graphical displays and printouts is white, while text and curves are black with different line styles and the grid is activated by default.

You can have different settings for background and text color of the graphical displays and the printout. Modification of these settings are stored in the registry table of the database.

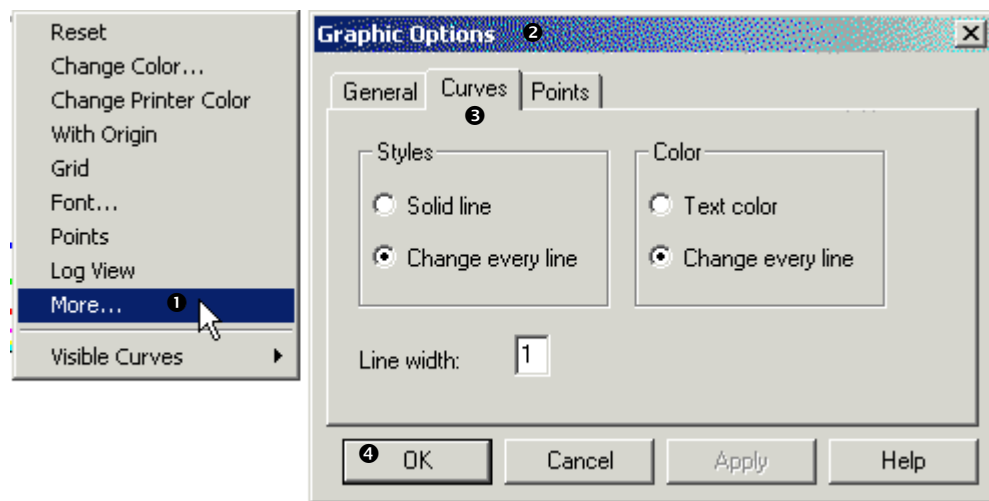
You can only modify the graphical settings in programs with graphical options such as the colorant set or the measurement program.

Setting Colors for Graphs



| Action | Result |
|--|---|
| 1 On the context-sensitive menu, select Change Color ① (for the display) or Change Printer Color ② (for color printers). | The „Choose Background Color“ dialog box ③ appears. |
| 2 Select the background color and click OK ④ . | The „Choose Text Color“ dialog box ⑤ appears. |
| 3 Select the text color and click OK ⑥ . | |

Setting Line Style and Color



| Action | | Result |
|--------|--|---|
| 1 | On the context-sensitive menu, select More ❶. | The „Graphic Options“ dialog box ❷ appears. |
| 2 | In the „Curves“ tab ❸, set style, color, and line width. | |
| 3 | Click OK ❹. | |

4

Using Datacolor MONITOR

Basics

Starting Datacolor MONITOR



- 1 On the Windows start menu or the desktop, click the Datacolor MONITOR icon.
The "Batch Series" list window appears.

Data Handling

Browse and Selecting

Using the object tree

All objects are displayed in a structured list on the left of the "Explorer" window.

Opening and closing structure levels:

- + A + sign indicates that there are hidden subordinate folders and/or objects.
Click the + sign to open the next structure level.
- Click the - sign to close all subordinate structure levels.

Selection of objects:

| Action | Result/Notes |
|---|--|
| 1 Select the requested object folder using the left mouse button. | The object folder data is displayed in the corresponding view. |

Context-sensitive menu:

| | |
|--------------------------|--|
| New Folder | Adds a new subfolder to the selected folder. <i>Type a meaningful name.</i> |
| Delete | Deletes the selected folder (only if the folder is empty). |
| New Root Folder | Adds a new root folder. <i>Type a meaningful name.</i> |
| Rename | Is used to rename the selected folder. |
| Data Type in this Folder | Opens the „Data in Folder“ dialog box used for searching data types and the corresponding data in the selected folder. Refer to Data in Folder Dialog Box on page 6-7 . |
| Find in Folder | Opens the „Find <data type> in Folder“ dialog box used for searching data records with a determined name or part of the name. The <data type> of the opened list window is used. Refer to Find in Folder Dialog Box on page 6-8 . |

Searching data types and the corresponding data in the selected folder

Refer to [Data in Folder Dialog Box on page 6-7](#).

Searching objects of a determined data type

| | Action | Result/Notes |
|---|---|--|
| 1 | On the context sensitive menu, select Find in Folder . | The „Find <data type> in Folder“ dialog box is displayed. The data type of the opened list window is selected. |
| 2 | Type the name (or a part of the name) of the searched data records, select the search restrictions, and click Search . | Refer to Find in Folder Dialog Box on page 6-8 . The corresponding data is displayed. |
| 3 | Select one or more of the items in the „Search Result“ box and right-click to display, print, or to make an ASCII output of the data. | |

**Note**

The number of data records to be displayed is limited to 1000. A message is displayed, if the limit is exceeded

Using the overview window

Clicking a button opens the corresponding list window. Refer to chapter [Windows and Dialog Boxes on page 6-1](#), section [Batch Series List Window on page 6-2](#).

Using the list windows

A mouse double-click in an object opens a window, dialog box, or property sheet, that is used to alter or delete the corresponding object data. Refer also to [General table functions on page 4-5](#).

Selection aids for fields and table column headers

The following selection aids are implemented for input fields with a link to another object (drop-down combo boxes or fields with a browse button):

Typed characters are used for search criteria. In front of the field, they are displayed in red and into disappointed brackets. The following wildcards are available:

| | |
|------------------|---|
| % (percent) | Replaces an undefined number of characters. % is set per default at the end of the search string. |
| _ (underscore) | Replaces any single character. |
| [] | The characters (or a range of characters) between the square brackets are to be included in the data found. |
| <i>Examples:</i> | [or] Displays only names that contain the characters o or r . |
| | [b-h] Displays only names that contain the characters of the range b to h . |
| [^] | The characters (or a range of characters) between the square brackets are not to be included in the data found. |

If you scroll using search criteria, only the corresponding objects are displayed.

General table functions

Selecting columns for sorting and filtering:



Click the column title to be selected. The column is marked with sorting sign and arrow.

Data is sorted using two criterias:

- 1st priority has the column you have clicked in;
- 2nd priority always has the object name (if it is selected in „User's Browser Definition“.).

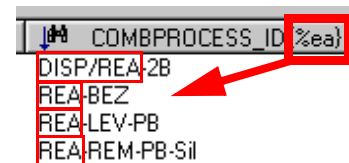
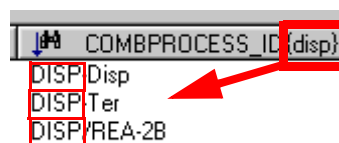
Changing the order:

Click the column title of the selected column for changing the order between ascending and descending.

A selection filter can be defined for each column:

- 1 If necessary, select the column title field.
- 2 Type the characters to be used as selection criteria. A binocular sign is displayed and the data is selected according to the criteria.
 - The wildcard % can be used.
 - The selection criteria can be changed as long as the column is selected.
 - Use **Backspace** to remove the character on the left of the cursor.
 - Use **Shift + Backspace** to remove the entire selection criteria.

Examples:



The names of the table columns can be altered using the "User's Browser Definition" function of the "Tools" menu. Refer to chapter [Browser Customizing on page 3-6](#).

Tool tips

In many places tool tips are implemented: Setting the cursor to this place, a context-sensitive information appears (refer to figure below).

| Calibration | | | Formulation | |
|-------------|-----|----------|-------------|-----------|
| Length | dE | Method | Min. Con | Max. Conc |
| 100 | 0.0 | Measured | 0 | 5.6 |
| 100 | 0.0 | Measured | 0 | 4 |
| 100 | 0.0 | Measured | 0 | 8 |
| 100 | 0.0 | Measured | 0 | 4 |
| 100 | 0.0 | Measured | 0 | 4 |
| 100 | 0.0 | Measured | 0 | 4 |
| 100 | 0.0 | Measured | 0 | 4 |
| 100 | 0.0 | Measured | 0 | 4 |
| 100 | 0.0 | Measured | 0 | 4 |

Opening context-sensitive menus

Context-sensitive menus are available in different windows, dialog boxes, and fields (Refer to the corresponding descriptions.). For opening, set the mouse cursor into the corresponding field or table column and click the right button.

Specifying, Modifying and Deleting Objects



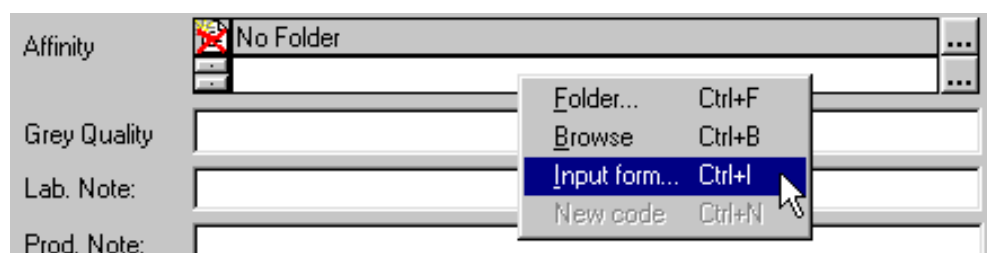
Note

The delete, move, copy, and rename functions are only available for users having the corresponding access rights.

Specify or modify an object, you can specify new objects of another linked object type using the corresponding tab or selection field.

Example: In the “Quality/Style Property Sheet”, you can specify a new affinity as follows:


- Use the “Affinity” tab.
- In the “Affinity” field of the “Quality/Style” tab, use the “Input Form” function of the context-sensitive menu.




Opening the input form

| Action | Result/Notes |
|---|--|
| 1 If available, select the corresponding tab, or, right-click the selection field where the new object should be entered. | A context-sensitive menu appears. |
| 2 Select Input Form . | The requested tab, box, or window appears. |

Specifying objects

| | Action | Result/Notes |
|---|--|---|
| 1 | Select a folder, if necessary. | |
| 2 | Switch to the input mode. |  The input mode icon appears. |
| 3 | Specify the new object name or overwrite the existing name with the new one. | |
| 4 | Specify the other data. | Fields marked with a red * are mandatory. Refer to the corresponding description in chapter Windows and Dialog Boxes on page 6-1 for more information about the parameters. |
| 5 | Click Insert . | The new object is created. |

Modifying and Deleting Objects

| | Action | Result/Notes |
|---|--|---|
| 1 | Select the object data to be modified or deleted. | Refer to Browse and Selecting on page 4-2 . |
| 2 | Modifying: In the requested fields, change the object data, and click Save . |  The input mode icon appears. The object is altered. |
| 3 | Deleting: Click Delete and confirm the deletion. | The object is deleted. |

**Note**

An object cannot be deleted, if it is linked to other objects. If the system cannot delete an object, all valid links are listed in the “Delete Check” info box.

Calibration and Measurement



Note

- For further details about your spectrometer refer to the manual supplied with your system.
- It is not possible to re-measure color types if they are linked to other tables.

Calibrating Your Spectrophotometer

Your spectrophotometer must always be calibrated after switching on. It is recommended to calibrate at least every eight hours. Different types of spectrophotometers have different settings. This section gives a general description of the calibration.



| Action | Result/Notes |
|--------|--------------|
|--------|--------------|

- | | |
|---|---|
| 1 | Check that your spectrophotometer is switched on. |
|---|---|



Note

Leave the spectrophotometer to warm up for a few minutes. Datacolor recommends that for the greatest accuracy you should wait thirty minutes before calibrating.

- | | | |
|---|--|---|
| 2 | <p>If you select the Measure Directly  button missing calibrations are requested automatically.</p> <p>For an intentional calibration, click the Measure  button and in the opened "Measurement" dialog box, select the "Calibrate" tab.</p> <p>After specifying the parameter values according to your spectrophotometer, click Calibrate.</p> | <p>Refer to Measurement Main Window on page 6-15.</p> |
| 3 | Follow the advice on the screen. | |

UV Calibration

Calibration Methods



Note

There are several methods that can be used to calibrate the adjustable UV filter position. Please refer to the whiteness standard you are using to determine the method to be used.

Ganz/Griesser: This procedure uses the Ganz/Griesser calibration method. The light source is filtered to simulate the D65 Illuminant and the Ganz Griesser parameters are used to calculate the filter position. In addition, the target whiteness value is based on 10% standard observer data.

CIE using D65/10: The light source is filtered to simulate the D65 illuminant. This is the procedure used to perform a CIE Whiteness evaluation.

ISO Brightness (C): The light source is filtered to simulate Illuminant C. This is the procedure used to perform an ISO Brightness evaluation.

Example using the Ganz/Griesser method



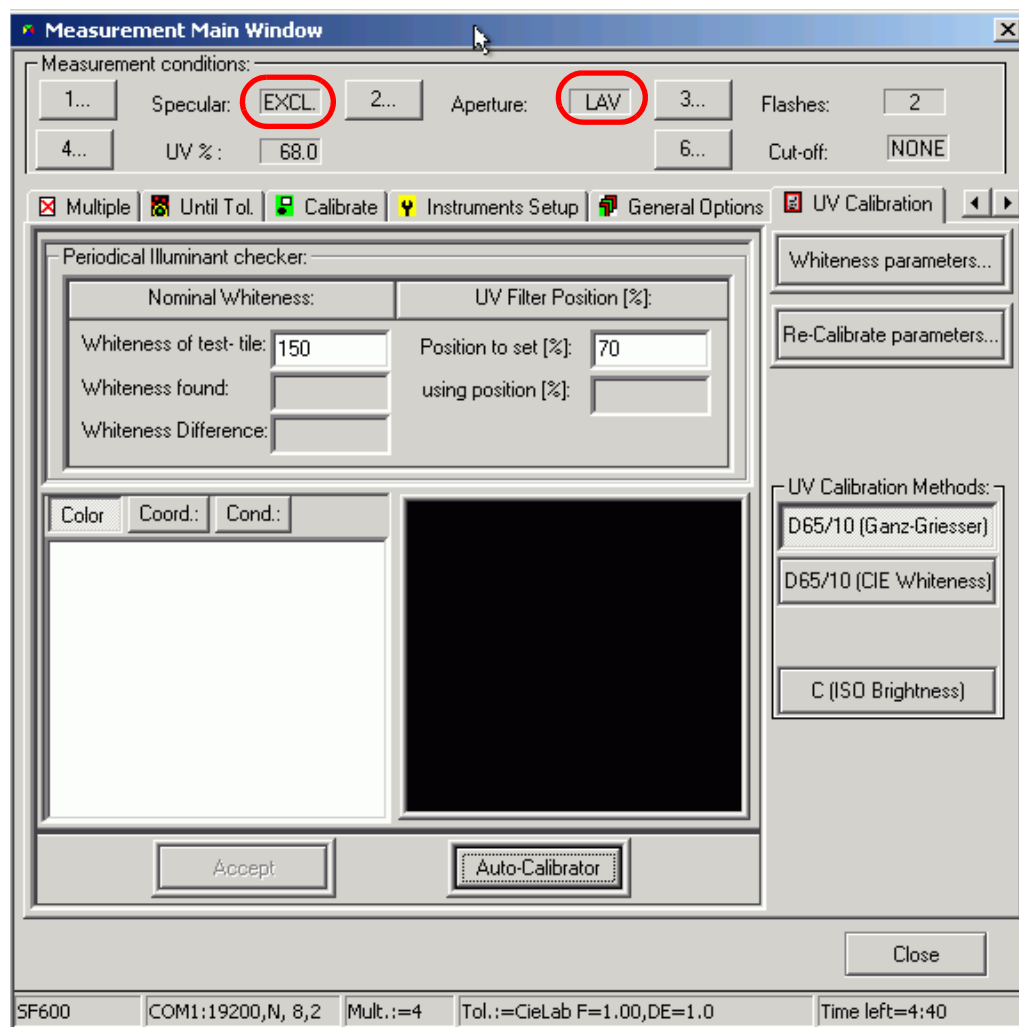
Note

The UV calibration is only available for instruments with the whiteness option.

The UV calibration is necessary to ensure a constant UV emission of the bulb.

Definition of the Ganz/Griesser whiteness parameters

This definition is necessary if a bulb or an other part of the optical illumination system has been replaced.



| Action | Result/Notes |
|--------|--|
| 1 | In the "Measurement Main Window", select the UV Calibration tab. |
| 2 | Select specular Excl. |
| 3 | Set aperture LAV . |
| 4 | Click Whiteness Parameters . The „Ganz/Griesser Calibration“ dialog box appears. |

Ganz/Griesser Calibration

Instrument-specific parameters determination

Current UV: 87.2953

Nominal whiteness: 174.5

Illumination check sample

Sample No.: 3

Measure

Calculate

Cancel

Color Coord.: Cond.:

R[%]

500 600 700 [nm]

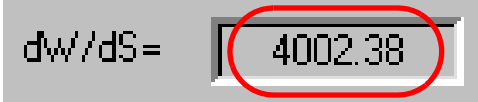
| Action | Result/Notes |
|--------|--|
| 5 | In the “Ganz/Griesser Calibration” dialog box, specify the “Nominal Whiteness”, and click Measure . |
| 6 | Repeat step 5 for all samples of your whiteness scale. |
| 7 | Click Calculate . The calibration results are displayed. |

Calibration Results:

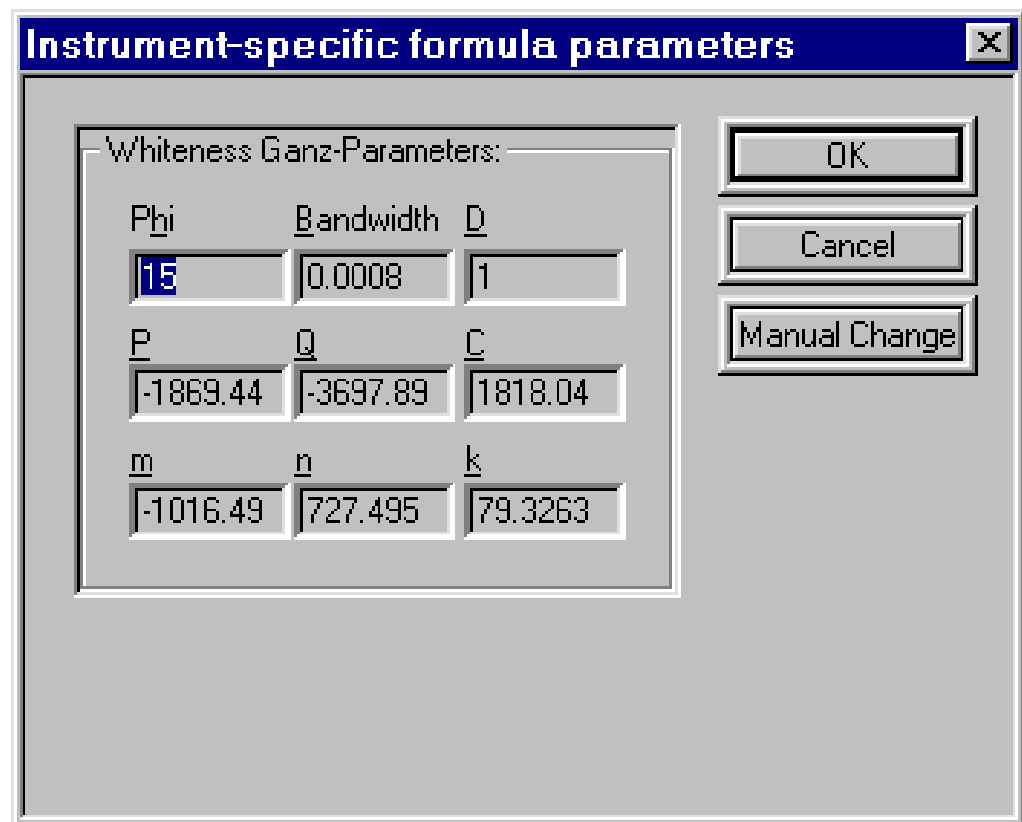
| | | |
|---|-------------------------|--------------------------|
| 1 | Whiteness nom. = 72.90 | Whiteness found = 71.62 |
| 2 | Whiteness nom. = 127.60 | Whiteness found = 128.20 |
| 3 | Whiteness nom. = 174.50 | Whiteness found = 176.45 |
| 4 | Whiteness nom. = 225.60 | Whiteness found = 224.32 |

dW/dS = 4075.84

Accept Recalibrate

| Action | Result/Notes |
|--|---|
| 8 Re-calibrate until "dW/dS" is 4000 \pm 10 (You must measure all samples again for each Re-calibration.). | <p>The program optimizes the UV filter position for each re-calibration.</p>  <p>The value of this example is ok.</p> |
| 9 If the value is ok, click Accept . | The "Instrument-specific Formula Parameters" dialog box appears. |

"Instrument-specific Formula Parameters" dialog box:



Instrument-specific formula parameters

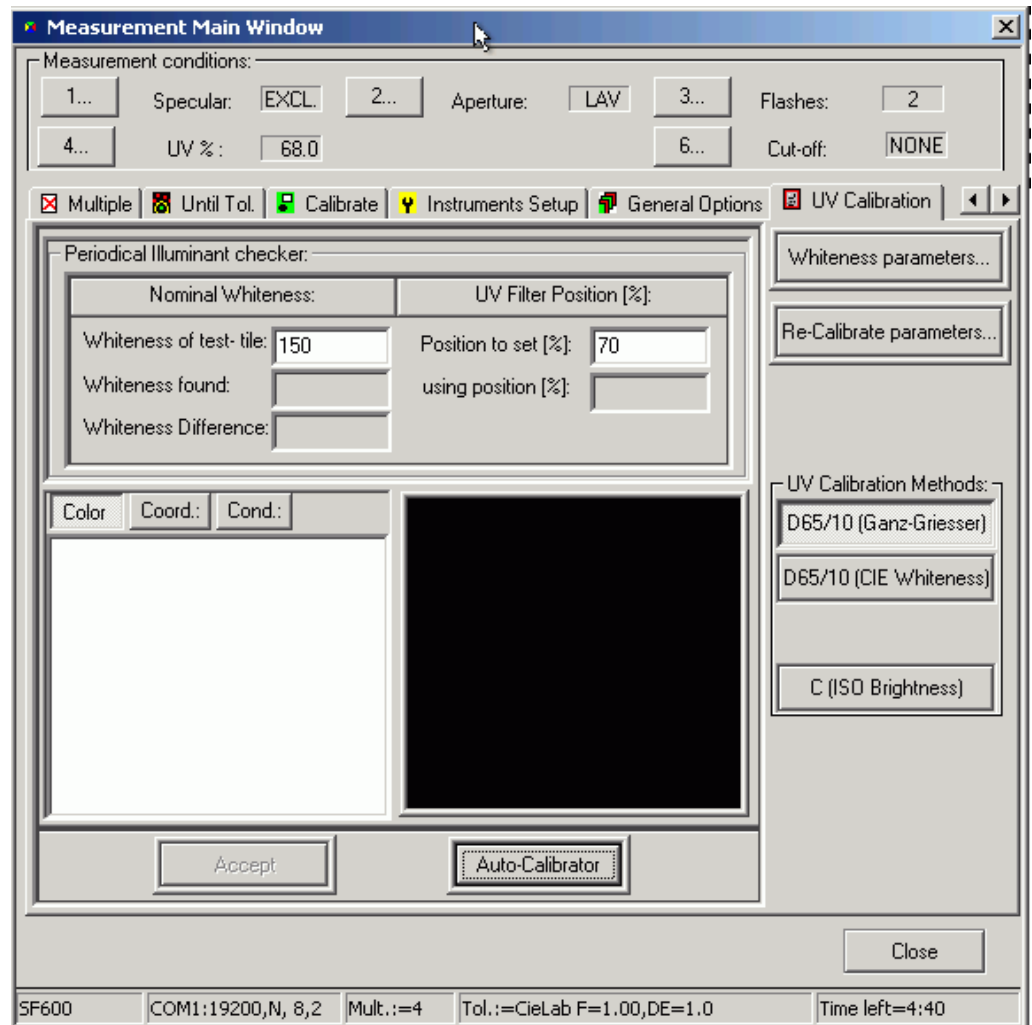
Whiteness Ganz-Parameters:

| | | |
|------------|------------------|----------|
| <u>Phi</u> | <u>Bandwidth</u> | <u>D</u> |
| 15 | 0.0008 | 1 |
| <u>P</u> | <u>Q</u> | <u>C</u> |
| -1869.44 | -3697.89 | 1818.04 |
| <u>m</u> | <u>n</u> | <u>k</u> |
| -1016.49 | 727.495 | 79.3263 |

OK
Cancel
Manual Change

Checking the UV part of the bulb

The periodical check of the UV emission of the bulb is done using an „Illuminant Checker“ sample. The Ganz/Griesser whiteness is calculated and the UV filter is adjusted.



| Action | Result/Notes |
|--------|---|
| 1 | In the “Measurement Main Window”, select the UV Calibration tab. |
| 2 | Select the „UV Calibration Method“. |
| 3 | Specify the whiteness of your „Illuminant Checker“ sample in the “Whiteness of Test Tile” field, and click Auto-Calibrator . |
| 4 | Repeat the “Auto Calibration” until the “Whiteness Difference” is in the range of 1.5, then click Accept . |

Instrument Correlation

There is always some variation in performance between different instruments. This difference becomes a part of each color evaluation if the standard and batch measurements are carried out using different instruments. While the inter-instrument agreement specification for Datacolor instruments is very tight when working with very small acceptability tolerances, small variations in instrument performance may have a significant impact on all the color evaluations. Maestro offers the additional „correlation“ feature to reduce these performance differences further.

Correlation allows you to adjust the performance of an instrument in order to match it to another reference or „master“ instrument. This adjustment is carried out by the application of „correlation“ factors calculated using the results of the spectral test. Using the differences between the master measurement and the current measurement, the program calculates a set of factors that are applied to each measurement, and which reduce the color difference between the two measurements. By generating correlation factors for every instrument used in the supply chain, the measurements made by each unit can be adjusted to simulate the performance of a single master unit. The result of this is that the Pass/Fail decisions will reflect the differences in the samples rather than in the instruments used to measure them. These correlation factors are generated using Maestro. The instrument correlation feature is enabled through the instrument driver module, however, which is accessible using any Datacolor program, including Maestro.

Once the correlation factors have been generated, they can be applied to raw measurement data to compensate changes in instrument performance. The adjusted measurement data should then closely resemble the measurement data produced by the master unit.

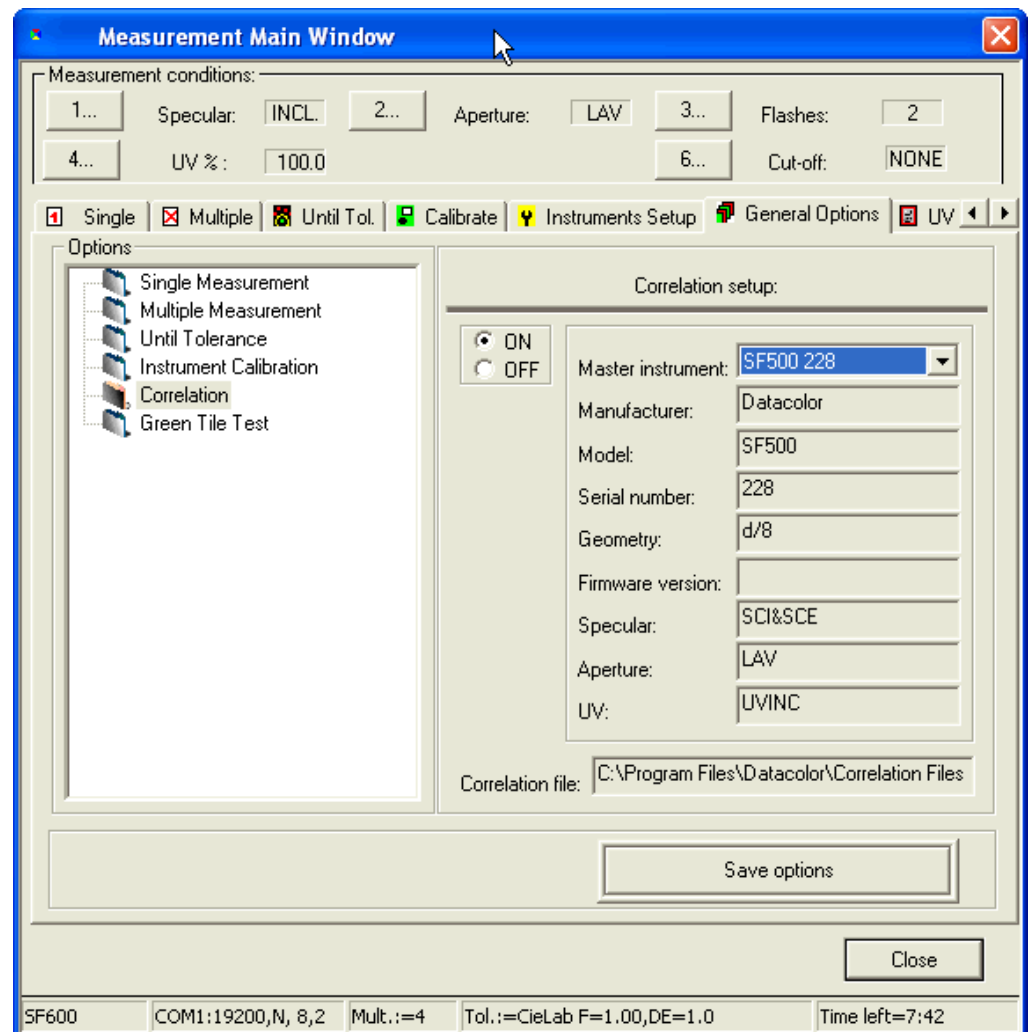
By designating a single instrument as „master“, and generating correlation factors for every instrument used in the supply chain, you can minimize any color differences caused by differences in instrument performance. This allows you to share color data electronically, and you will have the confidence that the instruments' Pass/Fail decisions are accurate evaluations, regardless of the instrument(s) used for the measurement.

Configuring and Enabling the Maestro Correlation Feature



Notes

- **Master Instrument:** You must identify the master instrument. This is the instrument used to generate the master measurements for the reference tile set. When you select „Install“ in the Maestro correlation feature, the information about the reference instrument will become available here.
- If the instrument correlation is enabled, all measurement data displayed and stored will be adjusted data.
- Instrument correlation can be enabled/disabled using any Datacolor program. The „Measurement Main Window“ is accessed using either an „Instrument“ menu or an instrument icon of the Datacolor program you are running.

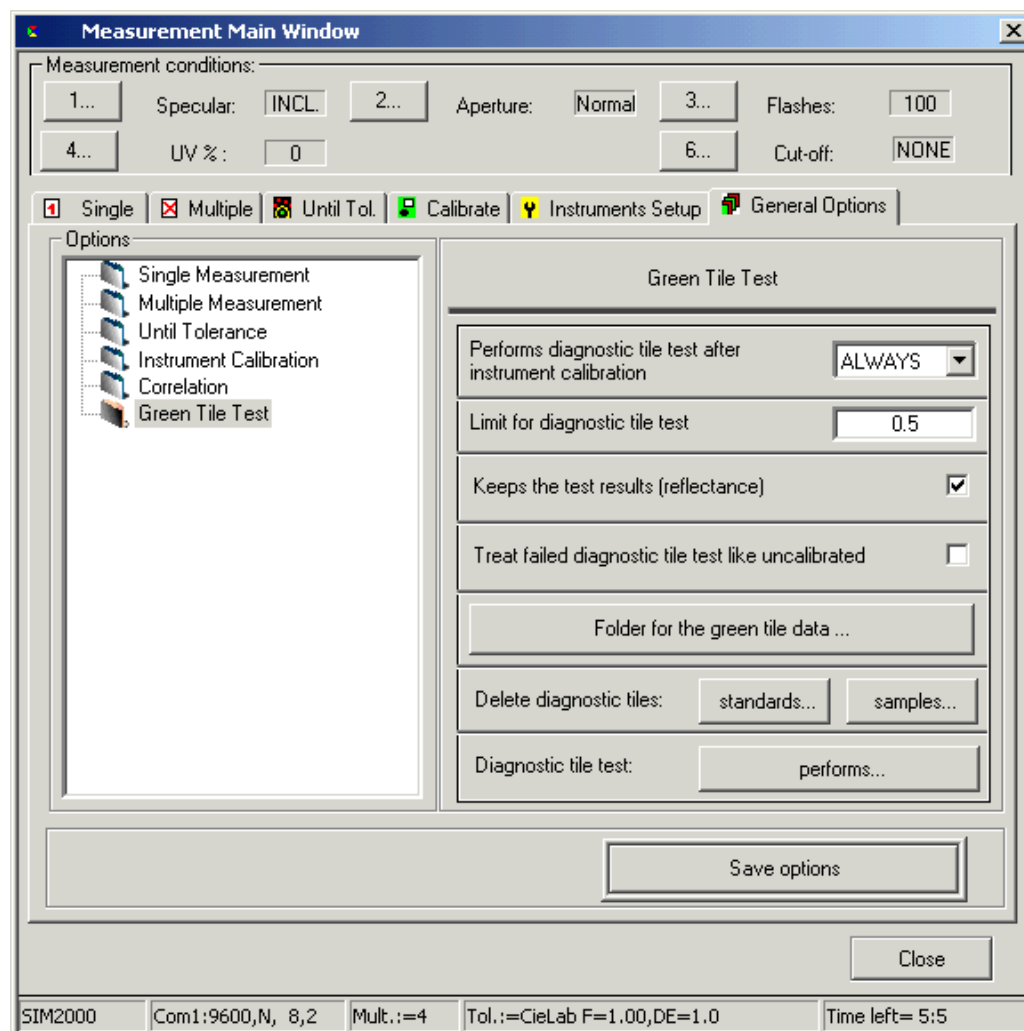


| Action | Result/Notes |
|---|--|
| 1 In the "Measurement Main Window", select the General Options tab. | |
| 2 In the left box, click „Correlation“. | The „Correlation setup“ box appears on the right. |
| 3 Select the master instrument. | All information about the master instrument selected appears in the corresponding fields. |
| 4 Click the button ON to enable the correlation feature, resp., the button OFF to disable it. | When enabled, each measurement made will be adjusted based on the correlation data in the file identified at the bottom of the window. |
| 5 Click Save options to save your settings. | |

Green Tile Test

The green tile test checks the instrument after the calibration. If the test fails the instrument must be calibrated again.

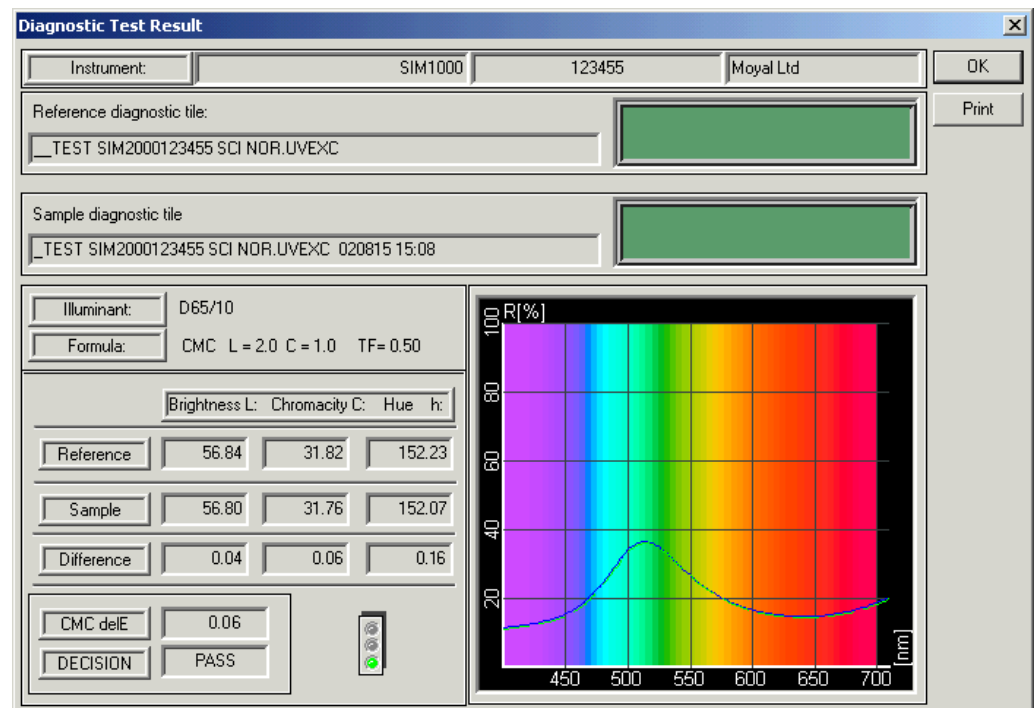
Configure the green tile test



Parameters

Perform diagnostic tile ... **Values:** ALWAYS The test is performed after each calibration.
 OPTIONAL The test can be skipped.
 NEVER The test is not performed.

| Action | Result/Notes |
|--------|---|
| 1 | In the General Options Tab of the „Measurement Main Window“, select Green Tile Test . |
| 2 | Set the parameter values, and click Save Options . |

Test results:**Note**

- Only CMC 1:2 is used for the test.
- If the test fails, the traffic light is red. If configured, the status of the instrument is set to „not calibrated“.

The samples are named as follows:

Green tile test (Standard): __TEST SF3008 SCI UVINC

Green tile test (Batch): __TEST SF3008 SCI UVINC 010321 11:46

The name contains the type (SF300), the serial number (8), the measurement condition (SCI UVINC), and (only for samples) the date and the time of the measurement.

The instrument settings and the measurement conditions are displayed in the status bar of the „Measurement Main Window“.


Measurement




Note

The program stores the type (tab) of the last measurement. The tab used for the last measurement appears for each new one.

Single measurement using the “Measure Directly” button

| Action | Result/Notes |
|--|--|
| 1 Check that your spectrophotometer is switched on and calibrated. | Refer to Calibrating Your Spectrophotometer on page 4-8 |
| 2 Place the sample into the spectrophotometer. | |
| 3 For a single measurement and if you do not need any parameter alterations, click the Measure Directly  button. | The measurement is executed. |
| 4 Click Insert to save the measurement. | Inserts a substrate delivery measurement into the substrate deliveries, for example. |

Measurement using the “Measure” button

| Action | Result/Notes |
|---|---|
| 1 Check that your spectrophotometer is switched on and calibrated. | Refer to Calibrating Your Spectrophotometer on page 4-8 . |
| 2 Click the Measure  button, or, on the context-sensitive menu, select Measure . | The “Measure” dialog box appears. Refer to Measurement Main Window on page 6-15 . |
| 3 Select the “Single” tab for a single measurement. | Refer to Single measurement on page 4-18 . |
| Select the “Multiple” tab for a multiple measurement. | Refer to Multiple measurement on page 4-19 . |
| Select the “Until Tolerance” tab for an until tolerance measurement. | Refer to Until tolerance measurement on page 4-20 . |

Single measurement

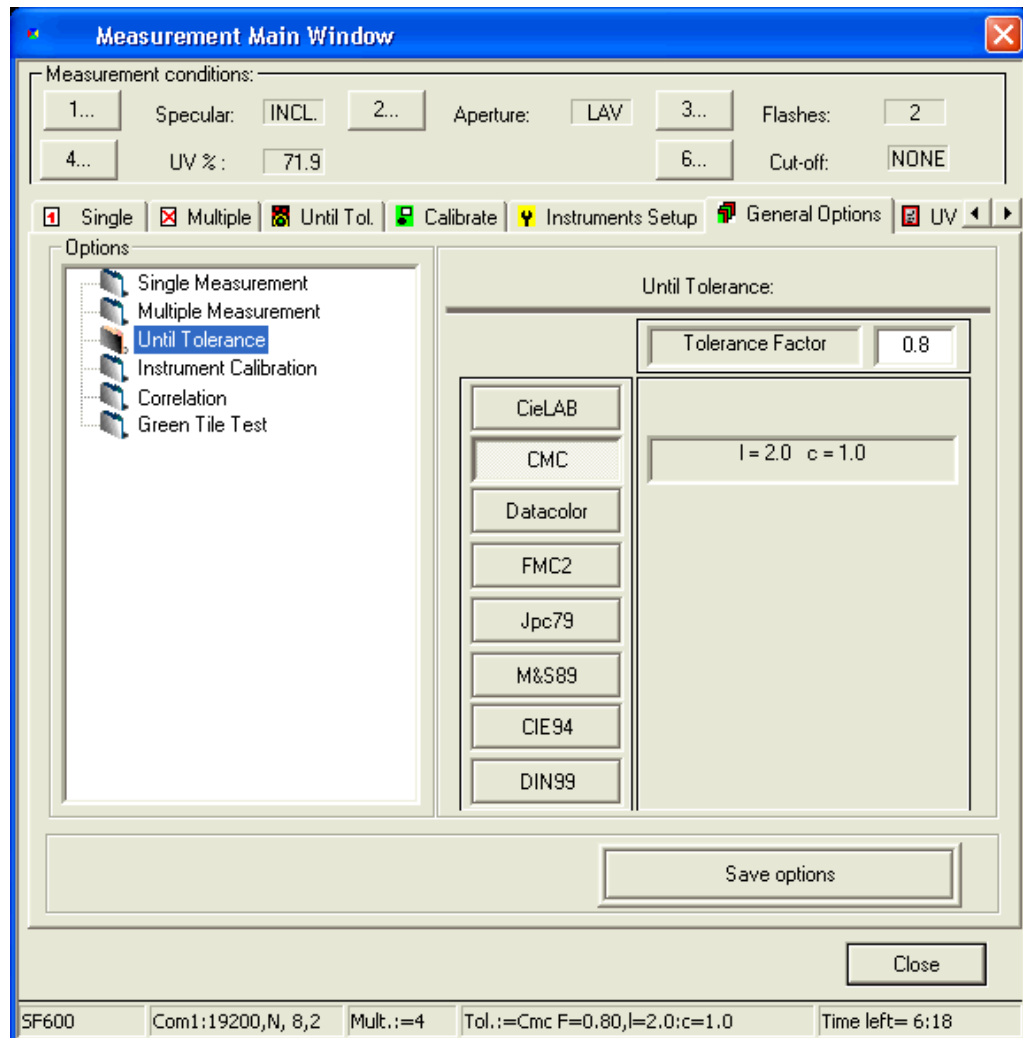
| Action | Result/Notes |
|---|--|
| 4 Place the sample to the spectrophotometer, and click the Measure button. | The results of the measurement are displayed in the subordinate tabs. |
| 5 Click Close . | The “Measurement” dialog box is closed. |
| 6 Click Insert to save the measurement. | Inserts a substrate delivery measurement into the substrate deliveries, for example. |

Multiple measurement

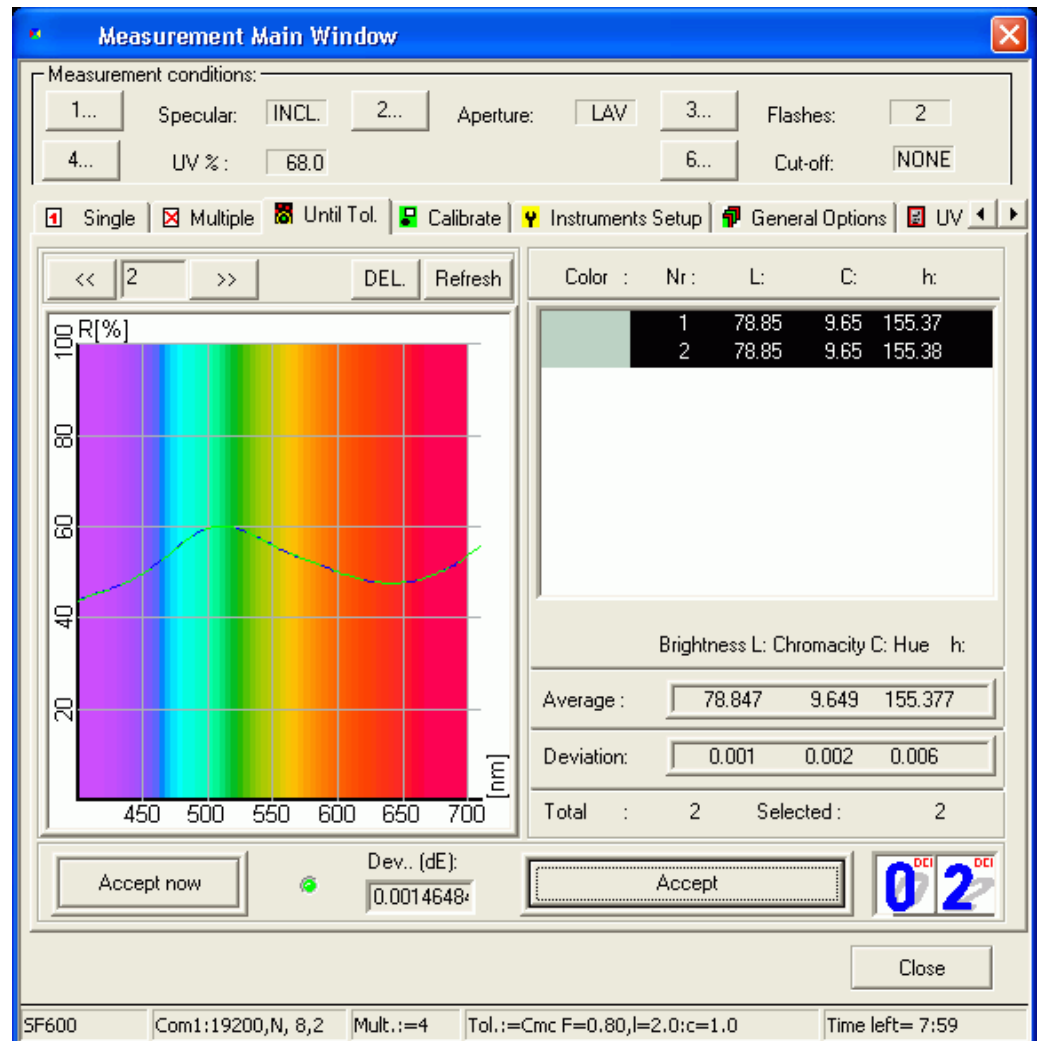
| | Action | Result/Notes |
|---|---|--|
| 4 | Place the sample to the spectrophotometer, and click the Measure button. For each additional measurement, move the sample and click Measure again. | The results are displayed in the graph and in the table. Average and deviation are calculated continually. Refer to Multiple Tab on page 6-16 (Measurement Dialog Box.) |
| 5 | In the table, cancel the unusable measurements using the mouse. Click Accept Now to save the measurement before the specified number is done. | Average and deviation are calculated continually. |
| 6 | If the specified number of measurements is done, the „Measure“ button changes to „Accept“. Click Accept to save the measurement. | Inserts a substrate delivery measurement into the substrate deliveries, for example. |
| 7 | Click Close . | The “Measurement” dialog box is closed. |

Until tolerance measurement

| Action | Result/Notes |
|---|---|
| 1 In the „General Options“ tab, select the Until Tolerance option. | The „Until Tolerance“ data box appears. |



- 2 Select the formula, set the tolerance factor, and click **Save Options**.
- 3 Select the **Until Tolerance** tab.



- 4 Place the sample on the spectrophotometer, and click the **Measure** button.
For each additional measurement, move the sample and click **Measure** again.
The results are displayed in the graph and in the table. Average and deviation are calculated continually.
Refer to [Multiple Tab on page 6-16](#) (Measurement Dialog Box.)
- 5 In the table, cancel the unusable measurements using the mouse. Click **Accept Now** to save the measurement before the specified number is done.
Average and deviation are calculated continually.

Specifying, Modifying or Deleting Tolerances

Specifying A New Tolerance

| | Action | Result/Notes |
|---|---|--|
| 1 | Open the "Tolerance Block Program" dialog box. | Refer to Tolerance Block Program Dialog Box on page 6-22 for information about the parameters. |
| 2 | Specify the tolerance name | |
| 3 | Select the requested tab and specify the tolerance values. For Datacolor pass/fail formula refer to the following section. | Refer to Browse and Selecting on page 4-2 and Specifying, Modifying and Deleting Objects on page 4-6 . |
| 4 | Click Save . | The new tolerance is created. |

Datacolor pass/fail formula

| | Action | Result/Notes |
|---|---|--|
| 1 | Select the "Datacolor" tab. | |
| 2 | Specify the tolerance name | |
| 3 | <ul style="list-style-type: none"> Click Datacolor Block Training for tolerance block calculation based on visually excepted standards and the related batches. | <p>The "Datacolor Tolerance Block" dialog box appears. Refer to Cie 94 Tab on page 6-29 for information about the parameters.</p> |
| | <ul style="list-style-type: none"> For changing the formula, click Diff. Formula and select the formula. | The „Select Difference Formula“ dialog box appears. |
| | Select or measure the standard and the related batches. | In the table, the batches are listed. All batches with a CMC color difference ≤ 1 are selected automatically. Click the refused batches to select. |
| | Select other colors (standards and batches) to specify a color-independent tolerance block. | Select at least all colors you want to proof to get a useful tolerance block. |
| | Click Apply . | The „Datacolor Tolerance Block“ dialog box closes. |
| | <ul style="list-style-type: none"> Click Block Manual Input for a manual input of tolerance values. | <p>The „Manual Input of Tolerance Values“ dialog box appears Refer to Manual Input of Tolerance Values Dialog Box on page 6-32 for information about the parameters.</p> |
| | Select or measure the standard and specify the tolerance values. | |
| | Click Apply | The "Manual Input Tolerance Values" dialog box closes. |
| 4 | Click Save . | The new tolerance is created. |

**Note**

A Datacolor tolerance block can be modified by adding more standards and batches.

Displaying Datacolor Tolerance Values

| | Action | Result/Notes |
|---|---|--|
| 1 | Select the requested "Datacolor" tolerance. | |
| 2 | Click Tolerance Values . | The "Tolerance Value Output" dialog box appears. Refer to Tolerance Block Program Dialog Box on page 6-22 . |
| 3 | Select or measure the requested batch. | The tolerance values are displayed. |

Modifying and Deleting Tolerance Values

| | Action | Result/Notes |
|---|---|--|
| 1 | Open the "Tolerance Block Program" dialog box. | Refer to Tolerance Block Program Dialog Box on page 6-22 for information about the parameters. |
| 2 | Modifying: Select the tolerance, alter the data, and click Save . Deleting: Select the tolerance, click Delete , and confirm the deletion. | |

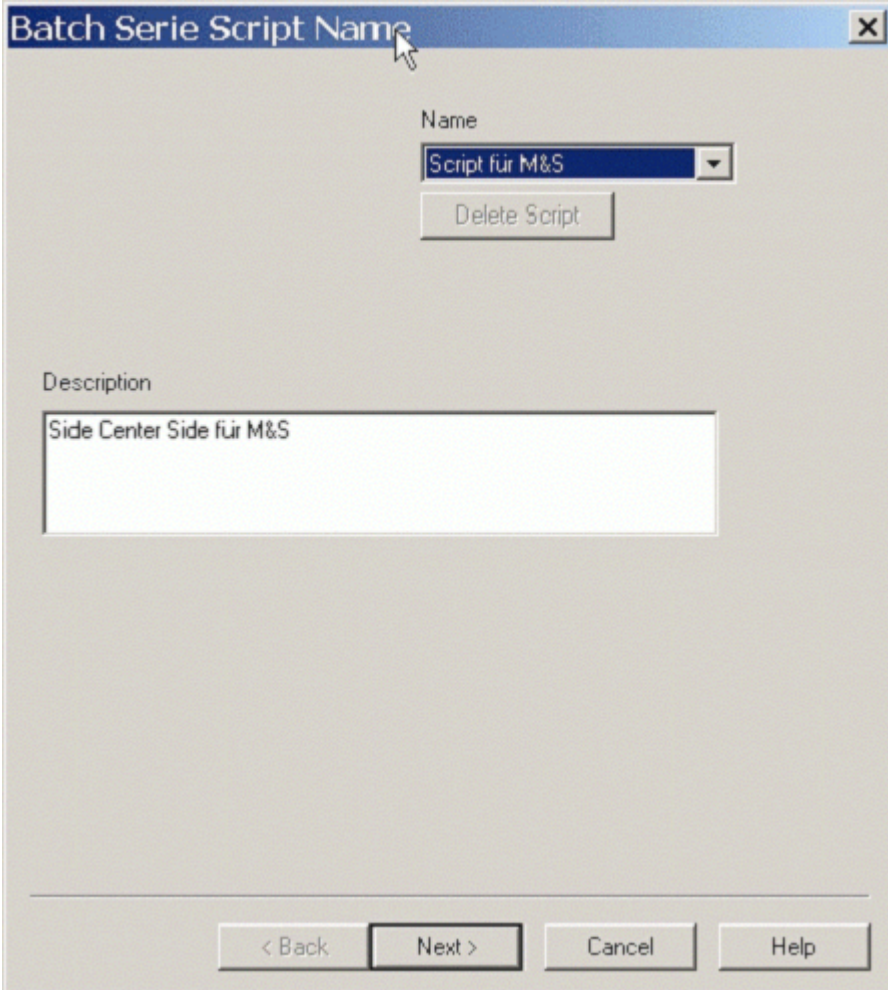
Datacolor MONITOR

Datacolor MONITOR is a color quality control software product that was designed to easily acquire color measurement data and pass/fail decisions for production quality control. The program is designed to compare side-center-side for fabrics. The major task was to design a software module that is easy to operate.

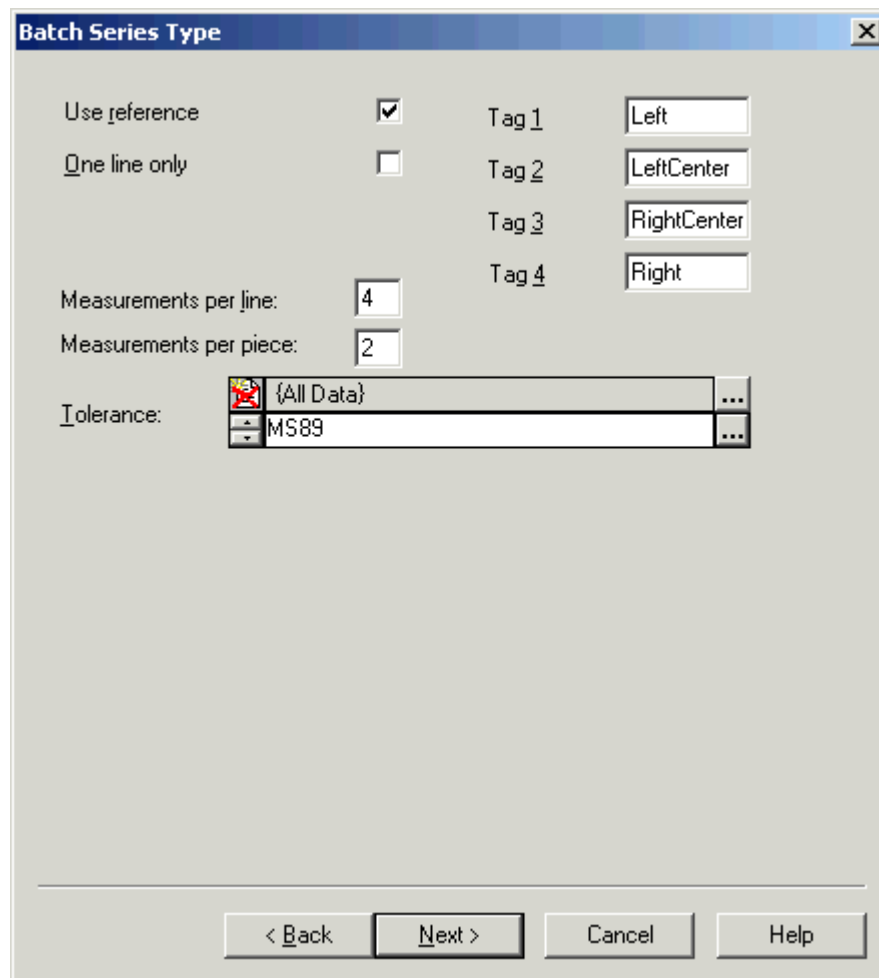
Specifying A Script

If you are starting the program for the 1st time, you must define a script to be able to measure a batch series. A script describes the measurements, the tolerances and the relations for the comparison.

- 1 On the **Batch Series** menu, select **New Script**.



- 2 Specify a name, a description (not mandatory), and click **Next** to continue.



The dialog box titled "Batch Series Type" contains the following controls:

- Use reference:** A checked checkbox.
- One line only:** An unchecked checkbox.
- Measurements per line:** A numeric input field with the value 4.
- Measurements per piece:** A numeric input field with the value 2.
- Tolerance:** A dropdown menu showing "(All Data)" and "MS89".
- Tag 1:** A text box with "Left".
- Tag 2:** A text box with "LeftCenter".
- Tag 3:** A text box with "RightCenter".
- Tag 4:** A text box with "Right".

At the bottom are four buttons: "< Back", "Next >", "Cancel", and "Help".

This dialog is very important.

3 You have to decide ...

- whether the measurements should be compared to a reference sample;
- how many measurements should be taken in the horizontal direction (measurements per line: maximum is 4), and;
- how many measurements per piece should be done in the vertical of a fabric.

The measurements in horizontal direction are called „Tag 1“, „Tag 2“, „Tag 3“, and „Tag 4“. For each tag, you can give a name describing the position of the measuring. This name is stored together with the spectrum and is used to identify the position.



Note

- These names cannot be modified if a batch series exists using that script. Refer to [Diagram: Measurement distribution on page 4-28](#).
- Up to four tags may be defined.

If you check „Only one line“ the measurement program stops if the measurements defined in „Measurements per line“ are done.

- 4 Select the Pass/Fail formula.
- 5 Click **Next** to continue.

Batch Serie Relation

Relation with standard:

| Tag | Standard | Tolerance Facto ▲ |
|---|----------|-------------------|
| <input type="checkbox"/> Left | Standard | |
| <input checked="" type="checkbox"/> LeftCenter | Standard | 1.0 |
| <input checked="" type="checkbox"/> RightCenter | Standard | 1.0 |
| <input type="checkbox"/> Right | Standard | |

Relation with previous batch:

| Tag | Previous Tag | Tolerance Facto ▲ |
|---|--------------|-------------------|
| <input checked="" type="checkbox"/> LeftCenter | LeftCenter | 1.0 |
| <input checked="" type="checkbox"/> RightCenter | RightCenter | 1.0 |
| <input checked="" type="checkbox"/> Right | Right | 1.0 |

Relation with batch on same line:

| Tag | Tag | Tolerance Facto ▲ |
|---|-------------|-------------------|
| <input checked="" type="checkbox"/> Left | LeftCenter | 1.0 |
| <input type="checkbox"/> LeftCenter | RightCenter | |
| <input type="checkbox"/> RightCenter | Right | |
| <input checked="" type="checkbox"/> Right | Left | 1.0 |

< Back Finish Cancel Help

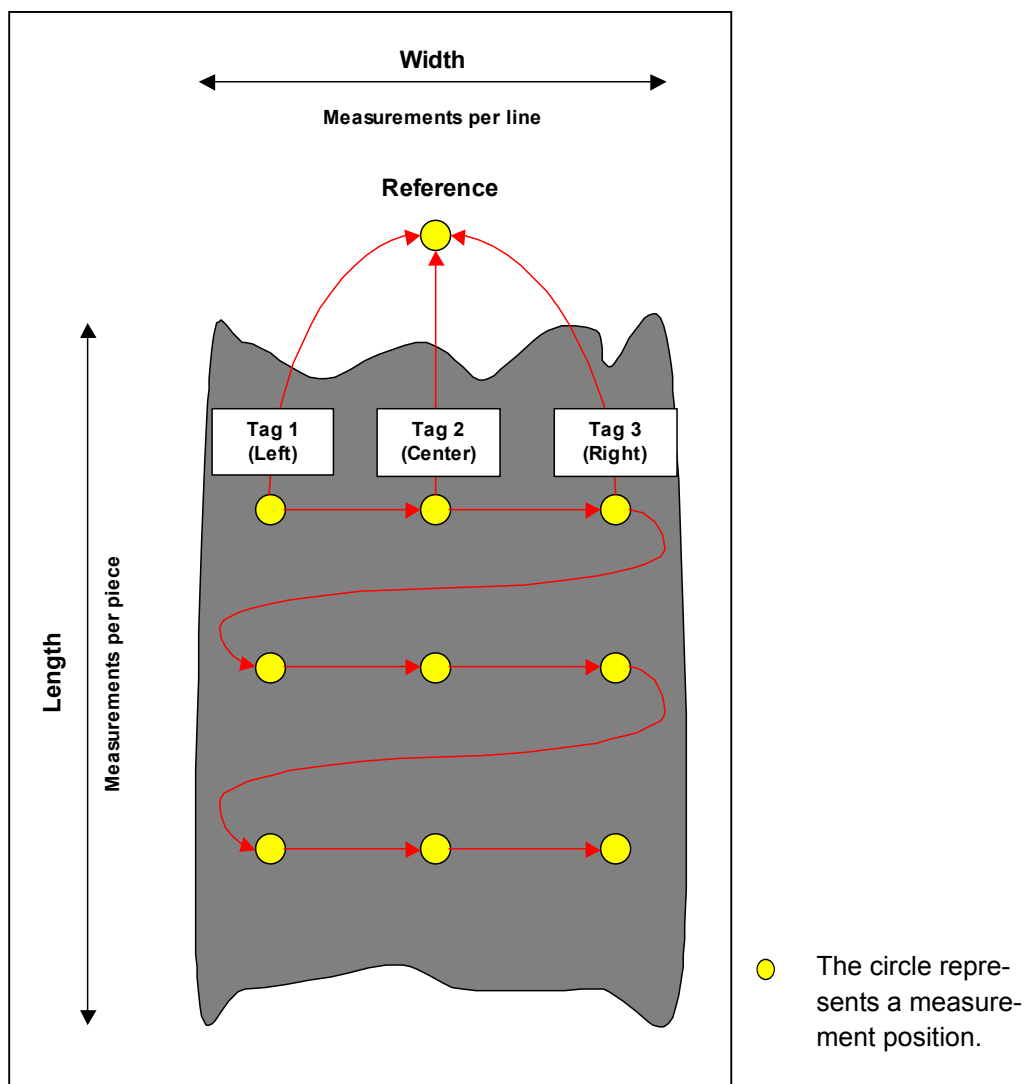
- 6 Set the measurements you want to compare. You can set an individual tolerance factor for each relation.

There are three different types of relations:

- Relation with Standard (only if „Use reference“ is checked in the previous dialog);
- relation with previous batch (vertical);
- relation with batch on the same line (horizontal).

- 7 Click **Finish** to save the script.

Diagram: Measurement distribution



This graph represents one piece of fabric, with three horizontal measurement positions (e.g. left - center - right) and three positions per piece (e.g. at the beginning, in the middle and at the end of the piece). In addition, the reference is included in the pass / fail task.

Specifying A Batch Series

Create batch series

Name: M&S Lot 173652

Folder: CS-Series

Script: M&S-CSQC

Standard: CS-Series
M&S Blue 454

Batch name: M&S Lot 173652

Batches:

Description: Here you can write down some notes.

OK Cancel

| | Action | Result/Notes |
|---|--|--|
| 1 | On the Batch Series menu, select Measure New Series . | The „Create Batch Series“ dialog box appears. |
| 2 | Type the name of the batch series, select the folder and the script. | |
| 3 | If a reference is defined in the script, select or measure the reference sample. | If a reference is not defined, the section for the standard is disabled. |
| 4 | Click Ok to start the measurement. | The measurement table and the „Measure Control“ dialog box appears. |



Note

The name of the batch series is used as batch name together with an extension for the number of lines measured, e.g.,

M&S Lot 1173652_001

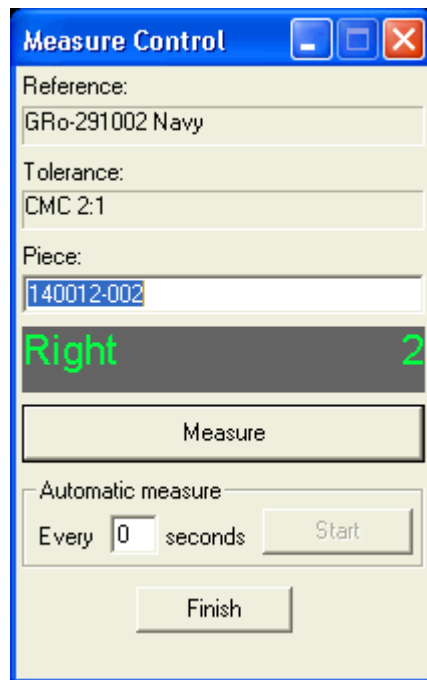
M&S Lot 1173652_002

M&S Lot 1173652_003

M&S Lot 1173652_004,

Each sample contains the spectra for the readings made at the positions left, center and right.

- 5 Type the name or number for the 1st piece of fabric and click **Measure** to start the 1st measurement.

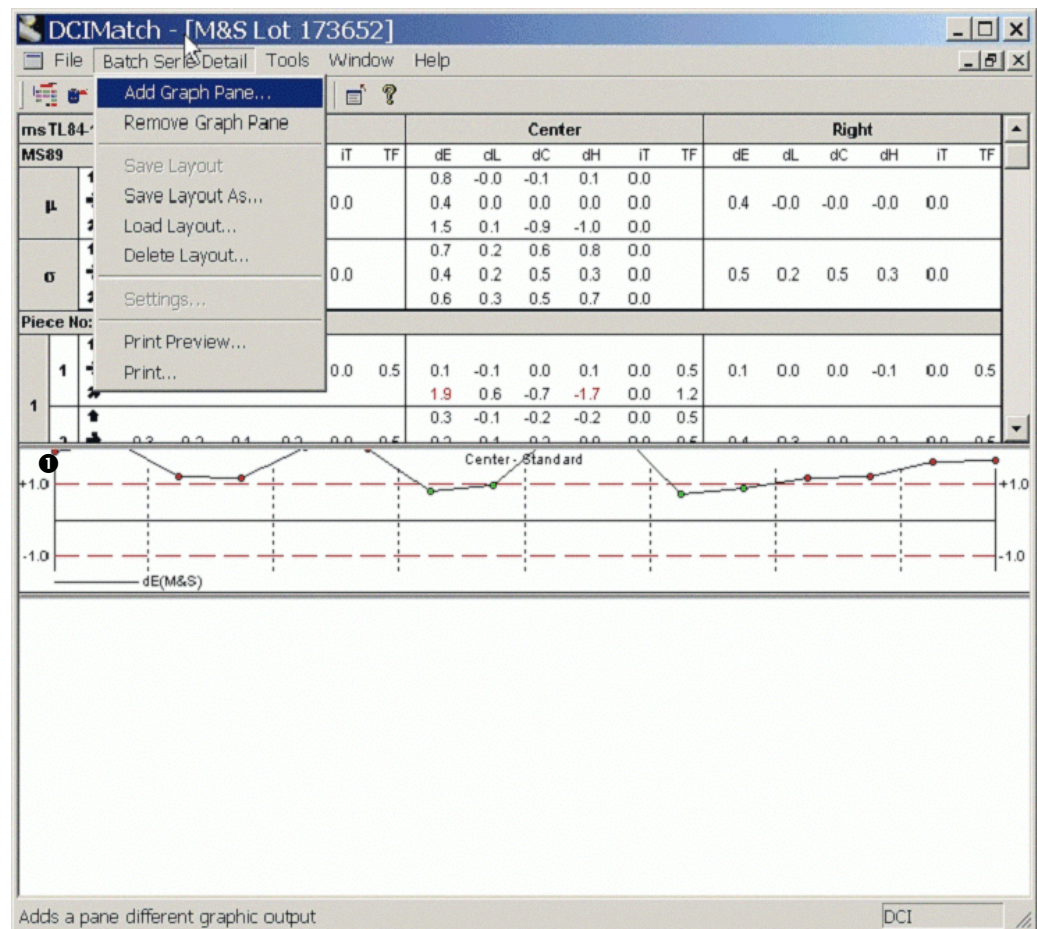


- The position you have to measure is displayed in the dialog box.
- The program asks for the next reading as soon as the measurement is done.
- If all measurements defined for a piece of fabric have been done, you can type the name of the next piece of fabric.
- If you forget it, the program asks for a new name.
- If your instrument is equipped with a feature button, you can trigger the measurement from the instrument.
- If the measurements of a line have been done, the color differences will be displayed.

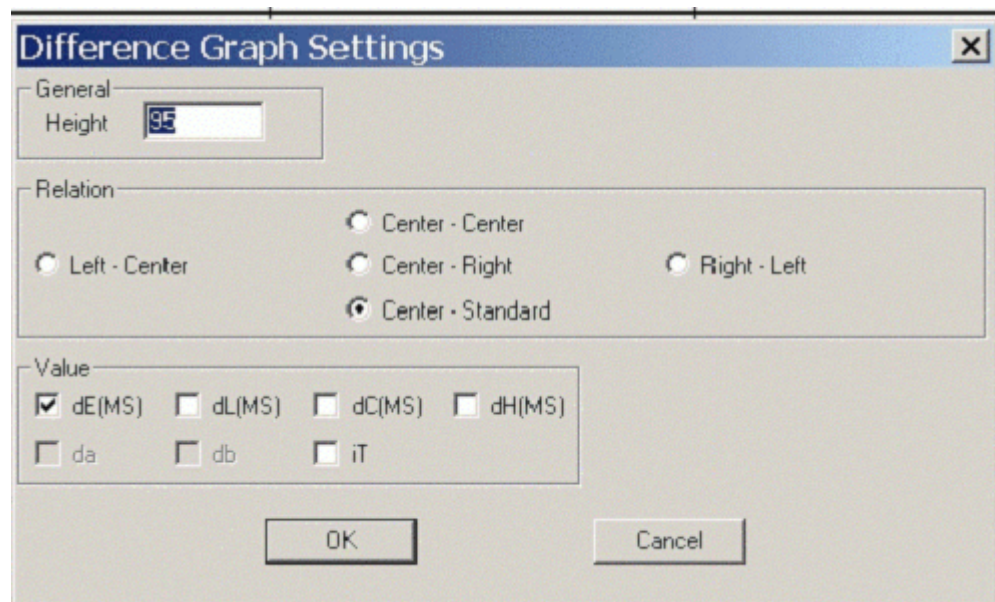
Adding A Graph Panel

You can add graph panels to the graphical display of all measurement positions and color difference values.

| Action | Result/Notes |
|--|--|
| 1 On the Batch Series menu, select Add Graph Panel . | Graph panels ❶ are displayed for each measurement. |



| | |
|---|---|
| 2 In the graph panel, click the right mouse button. | The „Difference Graph Settings“ dialog box appears. |
|---|---|



- 3 For all graph panels, select the measurement positions to be compared and the type of the difference value. „iT“ is the normalized tolerance (dE/TF). This value is important if you work with different tolerance factors for the sample relations.
- 4 Save the screen using the **Save Layout As** function of the **Batch Series** menu. Refer to [Batch Series Window on page 6-9](#) for an overview of all functions.


Printing A Batch Series

The printout or print preview is based on print forms created with the „Print View Designer“. Two default forms are provided with the database „Printform.db“.

In the task „Options“ of the menu „Batch Series“, you can select whether all pass/fail decisions or only failed ones are to be printed.

Example of the default printouts

20.02.2001

datacolor 

Center - Side - QC Details

Name M&S Lot 173652
Description Here you can write down some notes.

Script M&S-CSQC

DyeLot
Tolerance MS89

Standard M&S Blue 454
Illuminant msTL84-10

Formula MS89

| | <u>dE(M&S)</u> | | <u>dL(M&S)</u> | | <u>dC(M&S)</u> | | <u>dH(M&S)</u> | | <u>iT(M&S)</u> | |
|-----------------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|
| | Mean | Std Dev | Mean | Std Dev | Mean | Std Dev | Mean | Std Dev | Mean | Std Dev |
| Center-Standard | 1.52 | 0.58 | 0.09 | 0.30 | -0.91 | 0.44 | -0.99 | 0.73 | 0.00 | 0.00 |
| Center-Center | 0.75 | 0.68 | -0.05 | 0.21 | -0.09 | 0.57 | 0.06 | 0.82 | 0.00 | 0.00 |
| Left-Center | 0.36 | 0.45 | -0.00 | 0.20 | -0.00 | 0.46 | 0.01 | 0.29 | 0.00 | 0.00 |
| Center-Right | 0.36 | 0.45 | 0.00 | 0.20 | -0.01 | 0.46 | 0.00 | 0.29 | 0.00 | 0.00 |
| Right-Left | 0.37 | 0.45 | -0.00 | 0.20 | -0.02 | 0.47 | -0.00 | 0.29 | 0.00 | 0.00 |

Name Piece No: 1

| | <u>dE(M&S)</u> | <u>dL(M&S)</u> | <u>dC(M&S)</u> | <u>dH(M&S)</u> | <u>iT(M&S)</u> | <u>TF</u> | <u>Decision</u> |
|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------|-----------------|
| Center-Center | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Pass |
| Left-Center | 0.09 | 0.02 | -0.08 | 0.03 | 0.00 | 0.50 | Pass |
| Center-Right | 0.11 | -0.07 | 0.03 | 0.08 | 0.00 | 0.50 | Pass |
| Right-Left | 0.11 | 0.01 | 0.02 | -0.11 | 0.00 | 0.50 | Pass |
| Center-Standard | 1.91 | 0.57 | -0.65 | -1.70 | 0.00 | 1.20 | Pass |

| | <u>dE(M&S)</u> | <u>dL(M&S)</u> | <u>dC(M&S)</u> | <u>dH(M&S)</u> | <u>iT(M&S)</u> | <u>TF</u> | <u>Decision</u> |
|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------|-----------------|
| Center-Center | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Pass |
| Left-Center | 0.09 | 0.02 | -0.08 | 0.03 | 0.00 | 0.50 | Pass |
| Center-Right | 0.11 | -0.07 | 0.03 | 0.08 | 0.00 | 0.50 | Pass |
| Right-Left | 0.11 | 0.01 | 0.02 | -0.11 | 0.00 | 0.50 | Pass |
| Center-Standard | 1.91 | 0.57 | -0.65 | -1.70 | 0.00 | 1.20 | Pass |

5

Maintenance and Error Handling

Maintenance of the Spectrophotometer

Refer to the manual of your spectrophotometer.

Maintenance of the Database



Note

The delete, move, copy and rename functions are only available to users having the corresponding access rights.

Deleting Data

You can delete data objects in the corresponding windows and boxes.



Note

An object cannot be deleted, if it is linked to other objects. If the system cannot delete an object, all valid links are listed in the "Delete Check" info box.

Backup

Refer to [Backing Up Using Sybase Utilities on page 3-16](#).

Error Handling

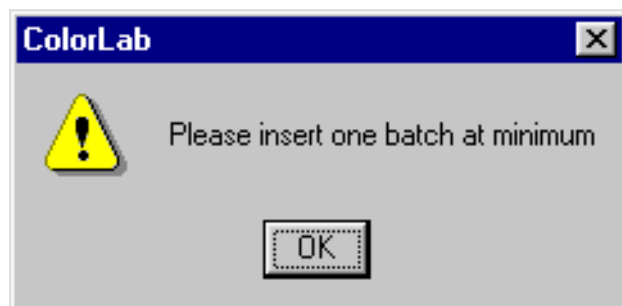
- 1 Note the error message and what you were doing before the error occurred.
- 2 Try to execute the advice of the error message. **Example below:** Specify a minimum of one batch before clicking **Save** again.
- 3 Log out of Datacolor MONITOR and restart Windows.
- 4 Restart Datacolor MONITOR.

If the error occurs again, contact your Datacolor representative for further advice.

Error Messages

If an error message appears while you are using your system, you should follow the advice above.

Example of an error message:

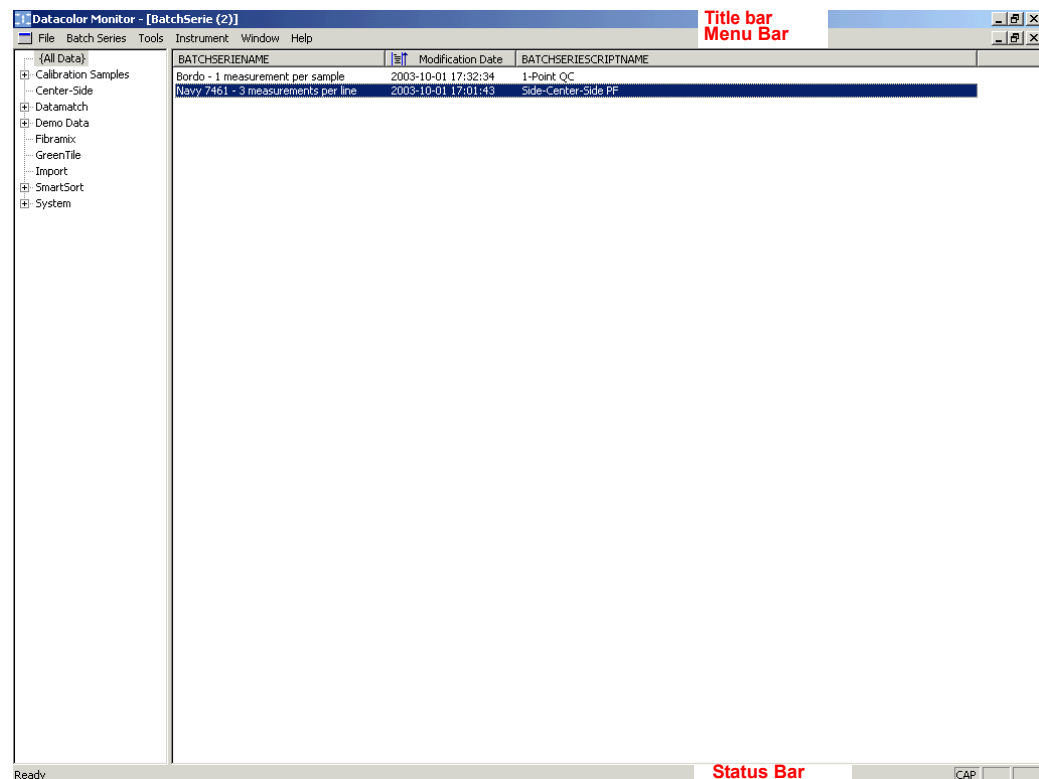


6

Windows and Dialog Boxes

Explorer

Batch Series List Window



Title bar

The title bar contains the title of the program, the title of the current window and, if a list window is opened, the number of data records.

Menu bar

Refer to [General Menu Functions on page 6-3](#) for the general functions or to the related window descriptions for window specific functions.

Status bar

Display of messages.

General Menu Functions

File

Exit Closes the program.

Batch Series

Measure New Series Open the „Create Batch Series“ dialog box. Refer to [Create Batch Series Dialog Box on page 6-10](#) and [Specifying A Batch Series on page 4-29](#).

Build New Series Open the „Create Batch Series“ dialog box. Refer to [Create Batch Series Dialog Box on page 6-10](#) and [Specifying A Batch Series on page 4-29](#).

Open Series Opens the with data of the selected batch series. Refer to [Batch Series Window on page 6-9](#) and [Datacolor MONITOR on page 4-25](#).

New Script Opens the „Batch Series Script Name“ dialog box. Refer to [Batch Series Script Name Dialog Box on page 6-11](#) and [Specifying A Script on page 4-25](#).

Maintain Script Opens the „Batch Series Script Name“ dialog box. Refer to [Batch Series Script Name Dialog Box on page 6-11](#) and [Specifying A Script on page 4-25](#).

Illuminant Opens the „Select current Illuminants“ dialog box. Refer to [Select Current Illuminants Dialog Box on page 6-14](#) and [UV Calibration on page 4-9](#).

Options Opens the „Options“ dialog box to select the failed parts for printing. Refer to [Printing A Batch Series on page 4-33](#).

Tools

User Manager Change Password: Refer to [Changing the Password on page 3-2](#).

User Administration: Refer to [Specifying, Modifying and Deleting User's Data on page 3-2](#).

Import Opens the „Import“ dialog box for sample import. Refer to [Import and Export on page 3-11](#).

Export Opens the „Export“ dialog box for sample export. Refer to [Exporting Data on page 3-11](#).

Backup Opens the „Backup“ dialog box. Refer to [Backing Up Using Sybase Utilities on page 3-16](#).

ASCII forms
New: Opens the „ASCII Output Definition“ dialog box.
Change: Opens the „ASCII Output Definition“ dialog box.
Delete: Opens the „Delete ASCII Form“ dialog box.
Refer to [ASCII Output \(Option\) on page 3-18](#).

Calibrate Monitor Function for calibrating monitors using Datacolor SPYDER2. Refer to [Calibrating the Monitors Using Datacolor SPYDER2 on page 3-22](#).

Tolerance Opens the „Tolerance Block Program“ dialog box. Refer to [Tolerance Block Program Dialog Box on page 6-22](#) and [Specifying, Modifying or Deleting Tolerances on page 4-22](#).

Instrument

| | |
|---------------------------|---|
| Calibrate Instrument | Opens the „Calibration Conditions“ dialog box. Refer to Calibrate Tab on page 6-18 and Calibration and Measurement on page 4-8 . |
| Instrument Setup | Opens the „Instrument Setup“ tab of the „Measurement Main Window“. Refer to Instruments Setup Tab on page 6-19 and Calibration and Measurement on page 4-8 . |
| Measurement Setup | Opens the „General Options“ tab of the „Measurement Main Window“. Refer to Instruments Setup Tab on page 6-19 and Calibration and Measurement on page 4-8 . |
| Diagnostic Instrument | Only if the green tile test is installed. Opens the „Prepare for Diagnostic“ dialog box. Refer to UV Calibration Tab on page 6-21 and Green Tile Test on page 4-16 . |
| UV Calibration | Only for instruments with whiteness option. Opens the „Measurement Main Window“. Refer to UV Calibration Tab on page 6-21 and UV Calibration on page 4-9 . |
| Ganz/Griesser Calibration | Only for instruments with whiteness option. Opens the „Measurement Main Window“. Refer to UV Calibration Tab on page 6-21 and UV Calibration on page 4-9 . |
| Ganz/Griesser Parameters | Only for instruments with whiteness option. Opens the „Measurement Main Window“. Refer to UV Calibration on page 4-9 . |

Window

| | |
|------------|---|
| New Window | Creates a copy of the currently selected window. |
| Cascade | Arranges the overview and the opened windows as a cascade. |
| Tile | Arranges the overview in the upper and the opened window in the lower part of the explorer. |

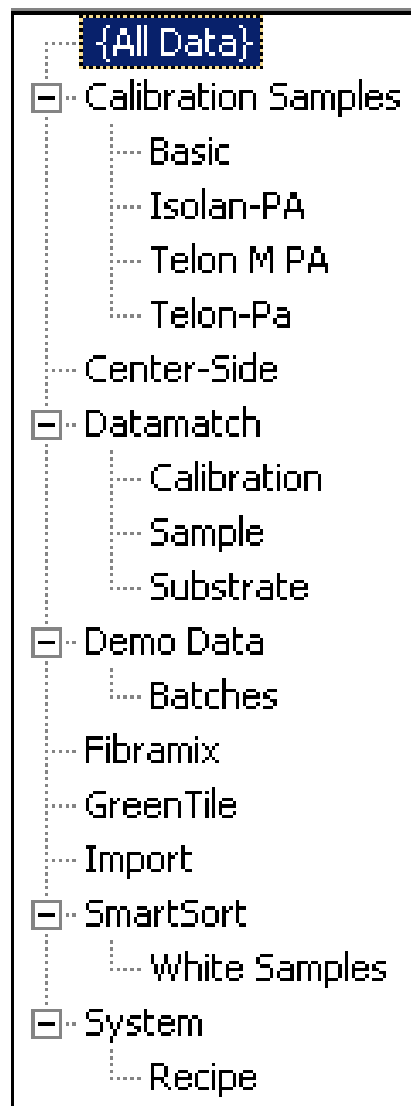
Help

| | |
|-------------------------|---|
| Help Topics | Opens the Acrobat Reader with the „Datacolor MONITOR Dye Lot User's Guide“. |
| About Datacolor MONITOR | Opens the “About Datacolor MONITOR” information box with release, copyright and user information. |

**Note**

Refer to the related window description for window specific menu functions.

Folder Structure



All objects are displayed in a structured list at the left of the “Explorer” window.

Opening and closing structure levels

+ A + sign indicates that there are hidden subordinate folders.

Click the + sign to open the next structure level.

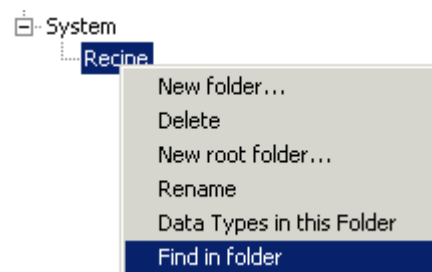
- Click the - sign to close all subordinate structure levels.

Selection of object types

1. Select the requested object type using the left mouse button.

If “All Data” is selected, all object types can be displayed.

Context-sensitive menu



| | |
|--------------------------|---|
| New Folder | Adds a new subfolder to the selected folder. <i>Type a meaningful name.</i> |
| Delete | Deletes the selected folder (only if the folder is empty). |
| New Root Folder | Adds a new root folder. <i>Type a meaningful name.</i> |
| Rename | Is used to rename the selected folder. |
| Data Type in this Folder | Opens the „Data in Folder“ dialog box used for searching data types and the corresponding data in the selected folder. Refer to Data in Folder Dialog Box on page 6-7 |
| Find in Folder | Opens the „Find <data type> in Folder“ dialog box used for searching data with a determined name or part of the name. The <data type> of the opened list window is used. Refer to Find in Folder Dialog Box on page 6-8 |

Batch Series List

List of the specified batch series in the selected folder.

Context-sensitive menu:

| | |
|---------------------------|---|
| Measure New Series | Open the „Create Batch Series“ dialog box. Refer to Create Batch Series Dialog Box on page 6-10 and Specifying A Batch Series on page 4-29 . |
| Build New Series | Open the „Create Batch Series“ dialog box. Refer to Create Batch Series Dialog Box on page 6-10 and Specifying A Batch Series on page 4-29 . |
| Open Series | Opens the with data of the selected batch series. Refer to Batch Series Window on page 6-9 and Datacolor MONITOR on page 4-25 . |
| New Script | Opens the „Batch Series Script Name“ dialog box. Refer to Batch Series Script Name Dialog Box on page 6-11 and Specifying A Script on page 4-25 . |
| Maintain Script | Opens the „Batch Series Script Name“ dialog box. Refer to Batch Series Script Name Dialog Box on page 6-11 and Specifying A Script on page 4-25 . |
| Illuminant | Opens the „Select current Illuminants“ dialog box. Refer to Select Current Illuminants Dialog Box on page 6-14 and UV Calibration on page 4-9 . |
| Options | Opens the „Options“ dialog box to select the failed parts for printing. Refer to Printing A Batch Series on page 4-33 . |
| User's Browser Definition | Opens the “Browse Columns for Explorer” dialog box. Refer to Browser Customizing on page 3-6 . |



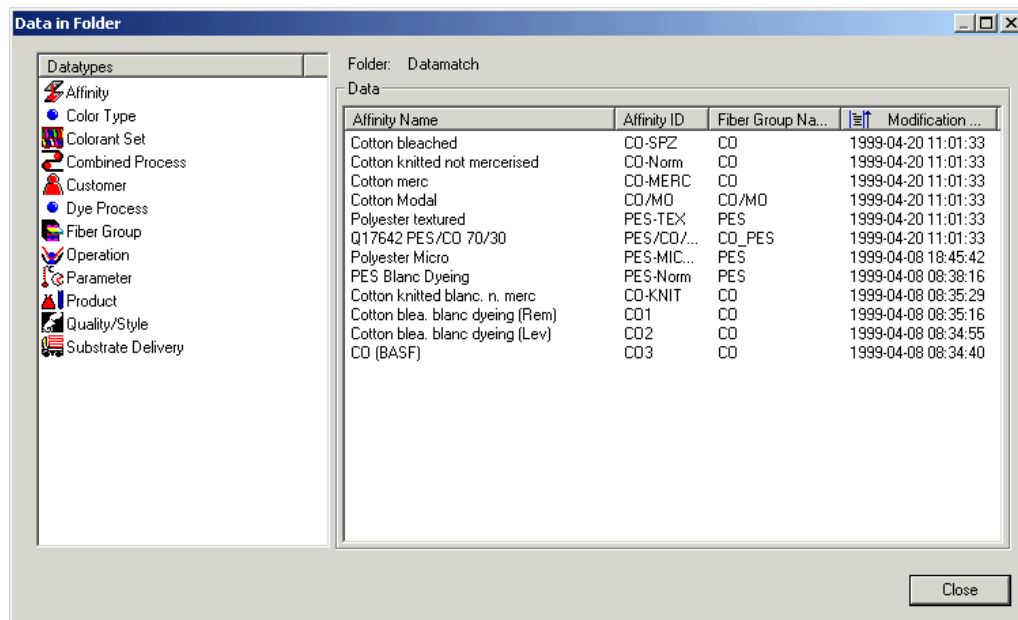
Note

The delete and rename functions are only available to users with the corresponding access rights.

| | |
|--------------|---|
| Rename | Is used to rename the selected object. |
| Delete | Deletes the selected object after confirmation. |
| Move to | Moves a selected object to another folder. |
| Filter | Refer to Browse Filters on page 3-8 . |
| Reset Filter | Resets the selected filter. |

Data in Folder Dialog Box

Used to search for data types and the corresponding data records stored in the folder selected in the folder structure.



Data type box:

Shows all data types that the folder selected in the folder structure contains.

Data box

Shows all data records of selected data type.

Context-sensitive menu of the Data box:

User's Browser Definition Opens the "Browse Columns for Explorer" dialog box. Refer to [Browser Customizing on page 3-6](#).



Note

The delete and rename functions are only available to users with the corresponding access rights.

Rename

Is used to rename the selected object.

Delete

Deletes the selected object after confirmation.

Move to

Moves a selected object to another folder.

Filter

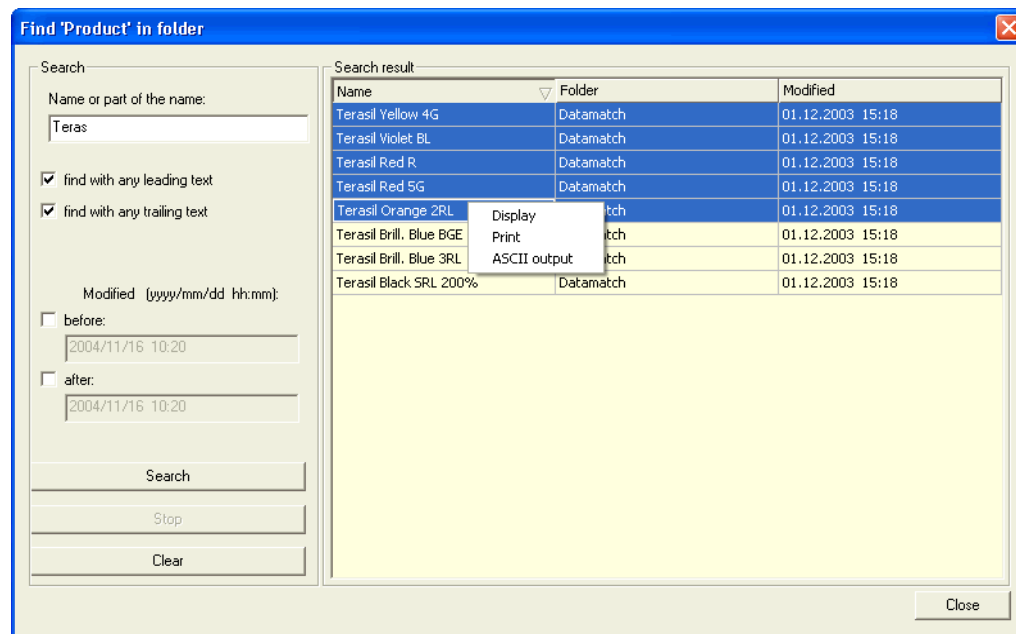
Refer to [Browse Filters on page 3-8](#).

Reset Filter

Resets the selected filter.

Find in Folder Dialog Box

Used for searching data records with a determined name or part of the name. The data type of the opened list window is used. Refer to [Searching objects of a determined data type on page 4-3](#).



Search criteria:

You can type a complete name or a part of it. If you are typing a part it is necessary to check one or both of the boxes for leading or trailing text.



Note

Wildcards cannot be used.

Additionally, you can select the time range of the last modification.

Buttons:

- | | |
|--------|---|
| Search | Starts the search. |
| Stop | Stops the current search. |
| Clear | removes all data from the input and list boxes. |

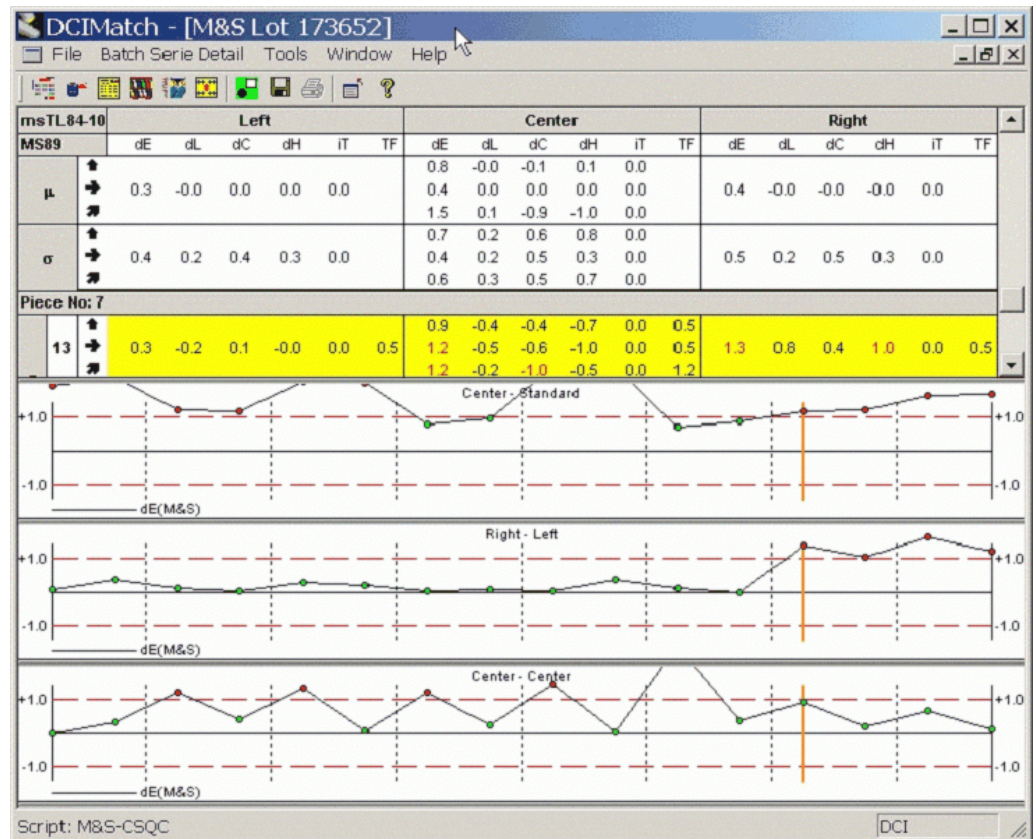
Context-sensitive menu in the „Search Result“ table:

- | | |
|--------------|--|
| Display | Displays a print preview of the selected object. |
| Print | Prints data of the selected object. |
| ASCII Output | Saves data of the selected object into a ASCII output. |

Batch Series Window

Refer to:

- [Adding A Graph Panel on page 4-31](#)
- [Printing A Batch Series on page 4-33](#)



Navigation

Left and right cursor keys Navigates from one measurement line (orange vertical solid line) to the next or previous. Corresponding to their position, the numeric values are displayed with yellow background color in the table above. The pieces of fabric are separated in the graph panel by a dotted black vertical line.

Results shown in the table

- One section with the average of all color differences, indicated by μ .
- One section with the standard deviation of all color difference, indicated by σ .
- The next section contains the result for all measurement on one line. This section is separated by the name of the piece of fabric.

Symbols describing the relation of the sample pairs used for color difference calculation:



Indicates color difference to a previous measurement, e.g., left to left, center to center or right to right.



Indicates color differences to a neighbor sample, e.g., left to center, center to right and right to left.



Indicates color differences to the reference, e.g., left to reference, center to reference or right to reference.

You will have nine color difference decisions if you have checked all possible relations.

Create Batch Series Dialog Box

Refer to [Specifying A Batch Series on page 4-29](#).

The screenshot shows a 'Create Batch Series' dialog box with the following fields and values:

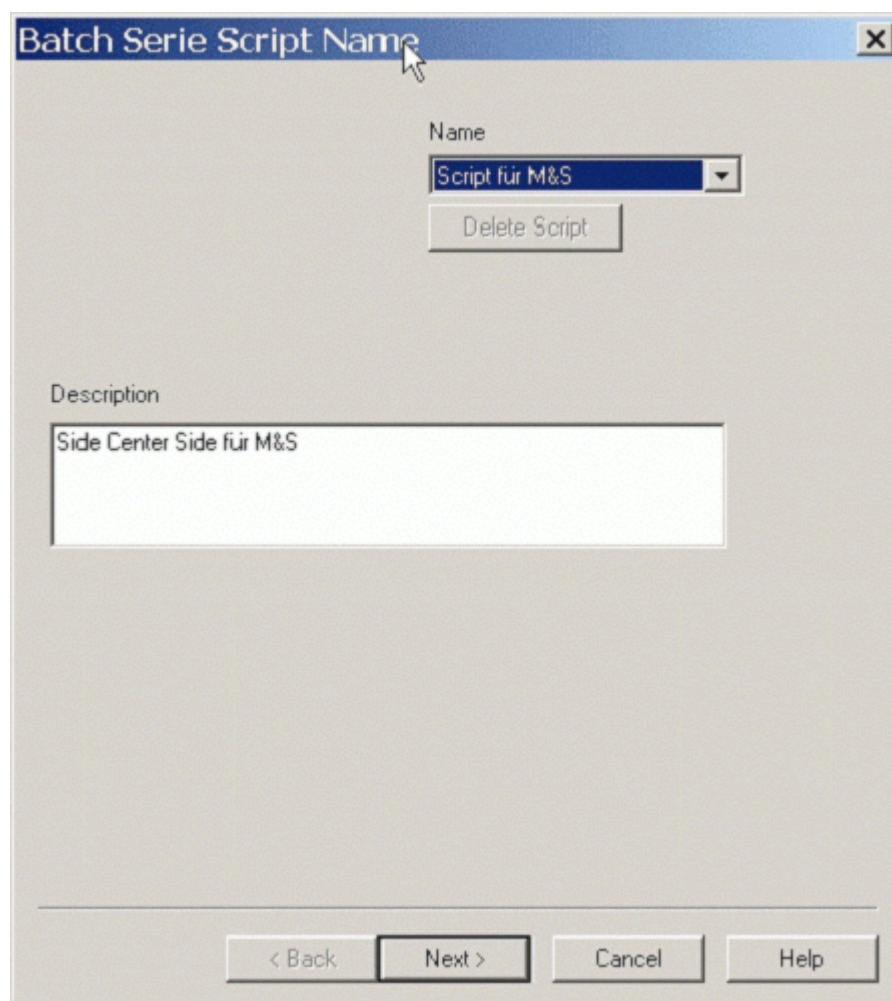
- Name: M&S Lot 173652
- Folder: CS-Series
- Script: M&S-CSQC
- Standard: CS-Series (selected), M&S Blue 454
- Batch name: M&S Lot 173652
- Batches: (empty)
- Description: Here you can write down some notes.

Buttons: OK, Cancel

| | |
|-------------|--|
| Name | Name of the batch series. |
| Folder | Selection of the folder. |
| Script | Selection of the script. |
| Standard | Selection of the Standard. |
| Batch Name | Name of the Batch. |
| Batches | Selection of the batches. |
| Description | Field for a description of the batch series. |

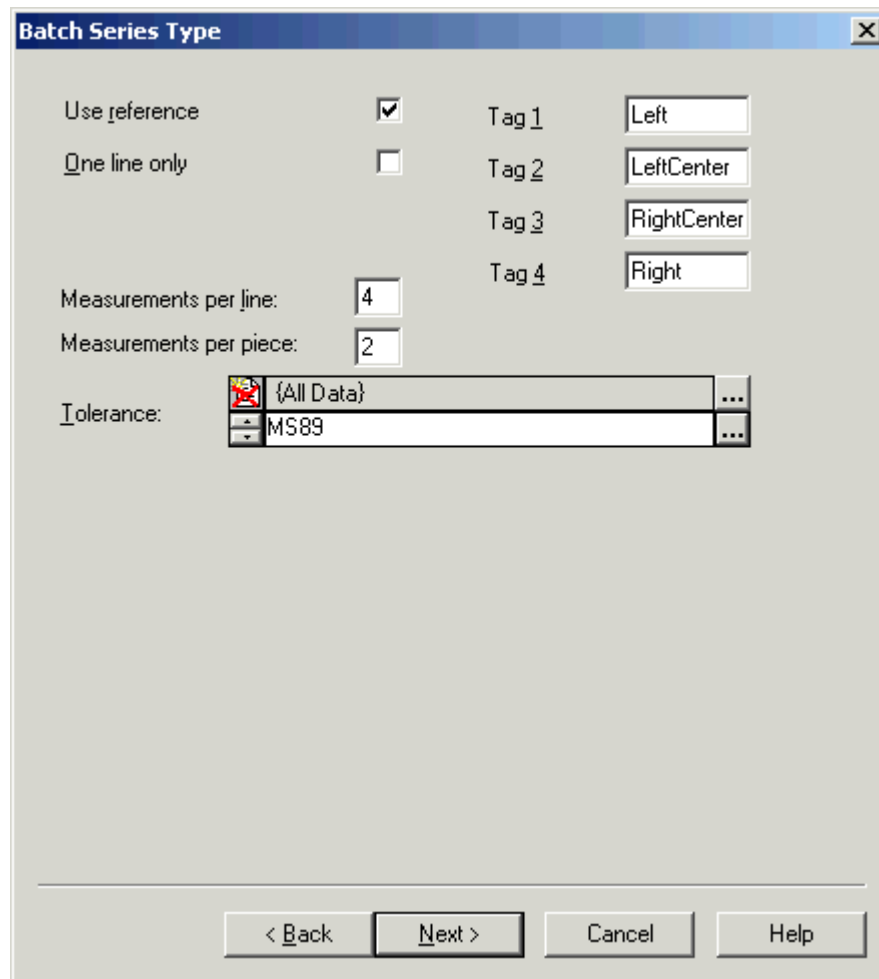
Batch Series Script Name Dialog Box

Refer to [Specifying A Script on page 4-25](#).



Batch Series Type Dialog Box

Refer to [Specifying A Script on page 4-25](#).



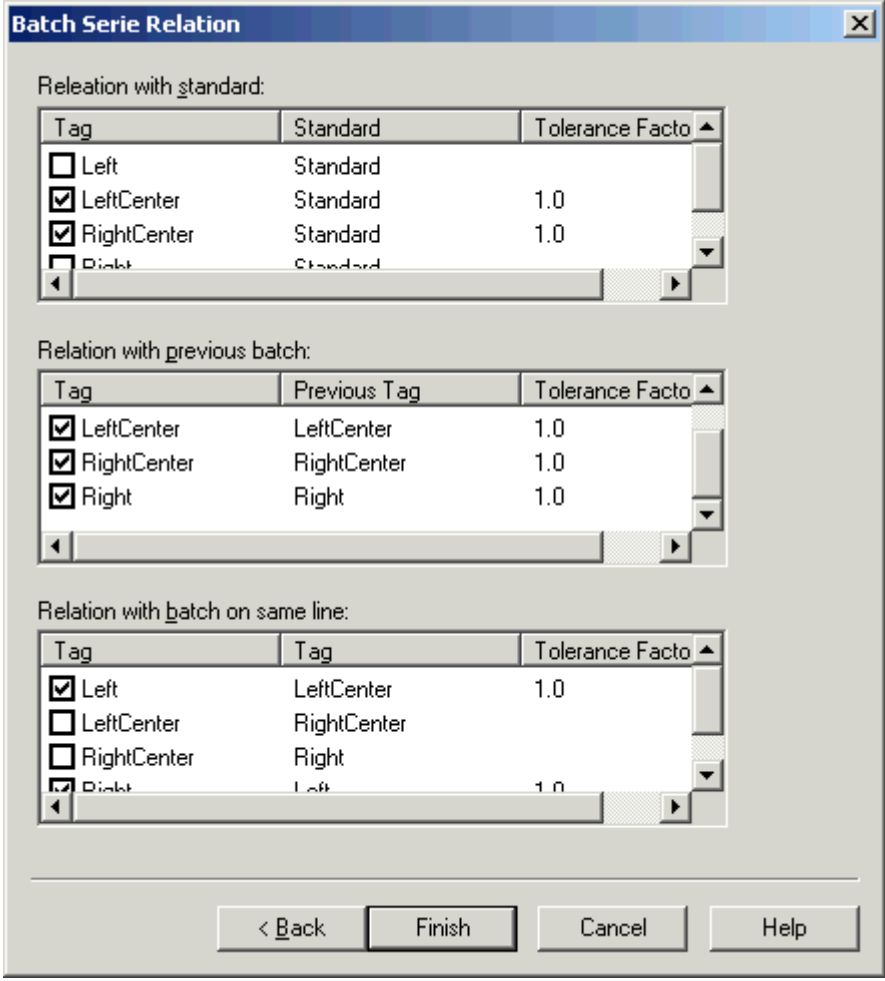
The **Batch Series Type** dialog box is used to configure data collection parameters. It includes checkboxes for **Use reference** and **One line only**, numeric input fields for **Measurements per line** and **Measurements per piece**, a list box for **Tolerance**, and a table for **Tag** settings. Navigation buttons (**< Back**, **Next >**, **Cancel**, **Help**) are at the bottom.

| Tag | Value |
|-------|-------------|
| Tag 1 | Left |
| Tag 2 | LeftCenter |
| Tag 3 | RightCenter |
| Tag 4 | Right |

Measurements per line: 4
Measurements per piece: 2
Tolerance: {All Data}, MS89

Batch Series Relation Dialog Box

Refer to [Specifying A Script on page 4-25](#).



The dialog box is titled "Batch Series Relation" and contains three sections for defining relations. Each section has a table with columns for Tag, Standard/Previous Tag, and Tolerance Factor. The first section, "Relation with standard:", shows a table with four rows: Left (unchecked), LeftCenter (checked), RightCenter (checked), and Right (unchecked). The second section, "Relation with previous batch:", shows a table with three rows: LeftCenter (checked), RightCenter (checked), and Right (checked). The third section, "Relation with batch on same line:", shows a table with four rows: Left (checked), LeftCenter (unchecked), RightCenter (unchecked), and Right (checked). At the bottom are buttons for "< Back", "Finish", "Cancel", and "Help".

Batch Series Relation

Relation with standard:

| Tag | Standard | Tolerance Factor |
|---|----------|------------------|
| <input type="checkbox"/> Left | Standard | |
| <input checked="" type="checkbox"/> LeftCenter | Standard | 1.0 |
| <input checked="" type="checkbox"/> RightCenter | Standard | 1.0 |
| <input type="checkbox"/> Right | Standard | |

Relation with previous batch:

| Tag | Previous Tag | Tolerance Factor |
|---|--------------|------------------|
| <input checked="" type="checkbox"/> LeftCenter | LeftCenter | 1.0 |
| <input checked="" type="checkbox"/> RightCenter | RightCenter | 1.0 |
| <input checked="" type="checkbox"/> Right | Right | 1.0 |

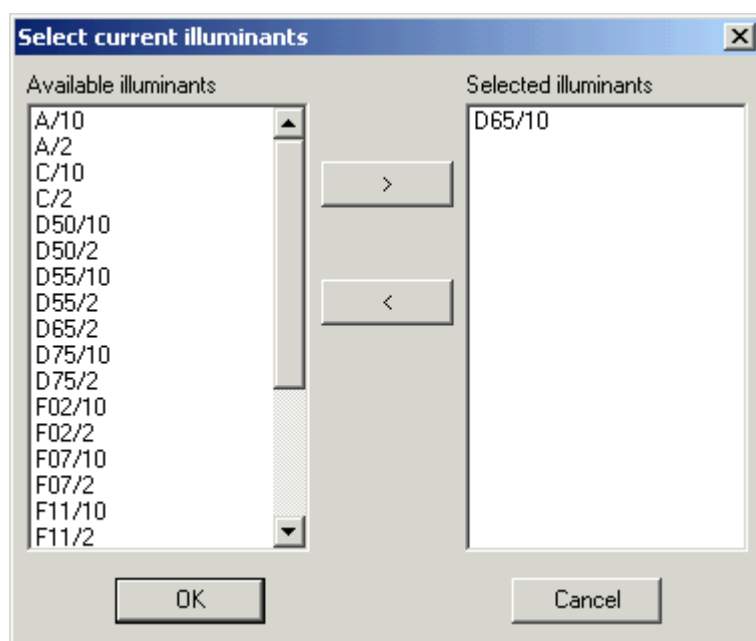
Relation with batch on same line:

| Tag | Tag | Tolerance Factor |
|---|-------------|------------------|
| <input checked="" type="checkbox"/> Left | LeftCenter | 1.0 |
| <input type="checkbox"/> LeftCenter | RightCenter | |
| <input type="checkbox"/> RightCenter | Right | |
| <input checked="" type="checkbox"/> Right | Left | 1.0 |

< Back Finish Cancel Help

Select Current Illuminants Dialog Box

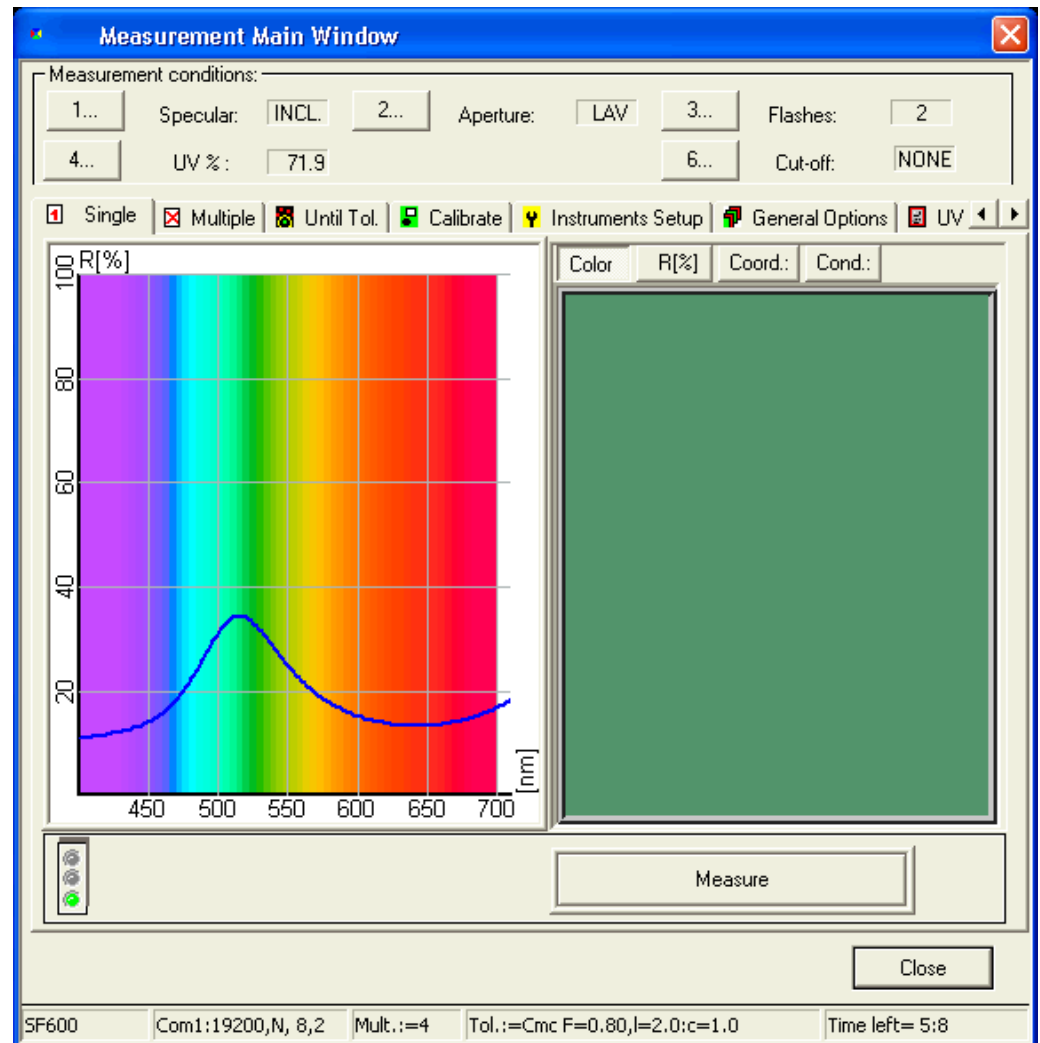
Refer to [UV Calibration on page 4-9](#).



Measurement Main Window

The “Measurement” dialog box is used for selection and setting up the instrument, calibration, and measurement. Refer to [Calibration and Measurement on page 4-8](#).

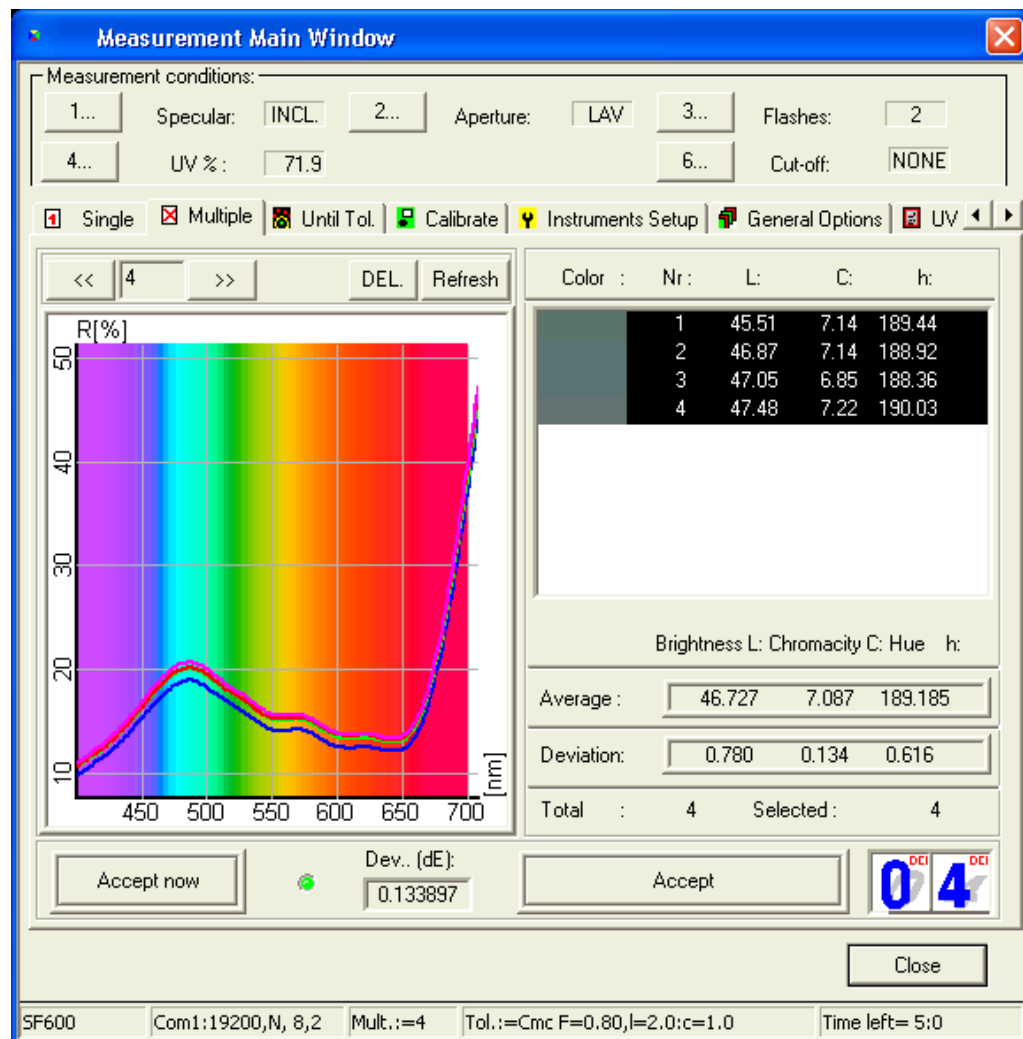
Single Tab (Example)



Refer to the manual of your spectrophotometer for instrument specific information.

| | |
|-------------------|---|
| „Color“ tab | Shows the color of the measured sample. |
| „Reflectance“ tab | Shows the reflectance values of the measured sample. |
| „Coordinates“ tab | Shows the color coordinates (e.g., yxz Lab) of the measured sample. |
| „Conditions“ tab | Shows the measurement conditions. |

Multiple Tab



Parameters

Used for a measurement series.

The graph and the fields show the result of the measurement. **Average and deviation are calculated according to the selected measurements.**

In the table, the measurements can be selected or canceled using the mouse.

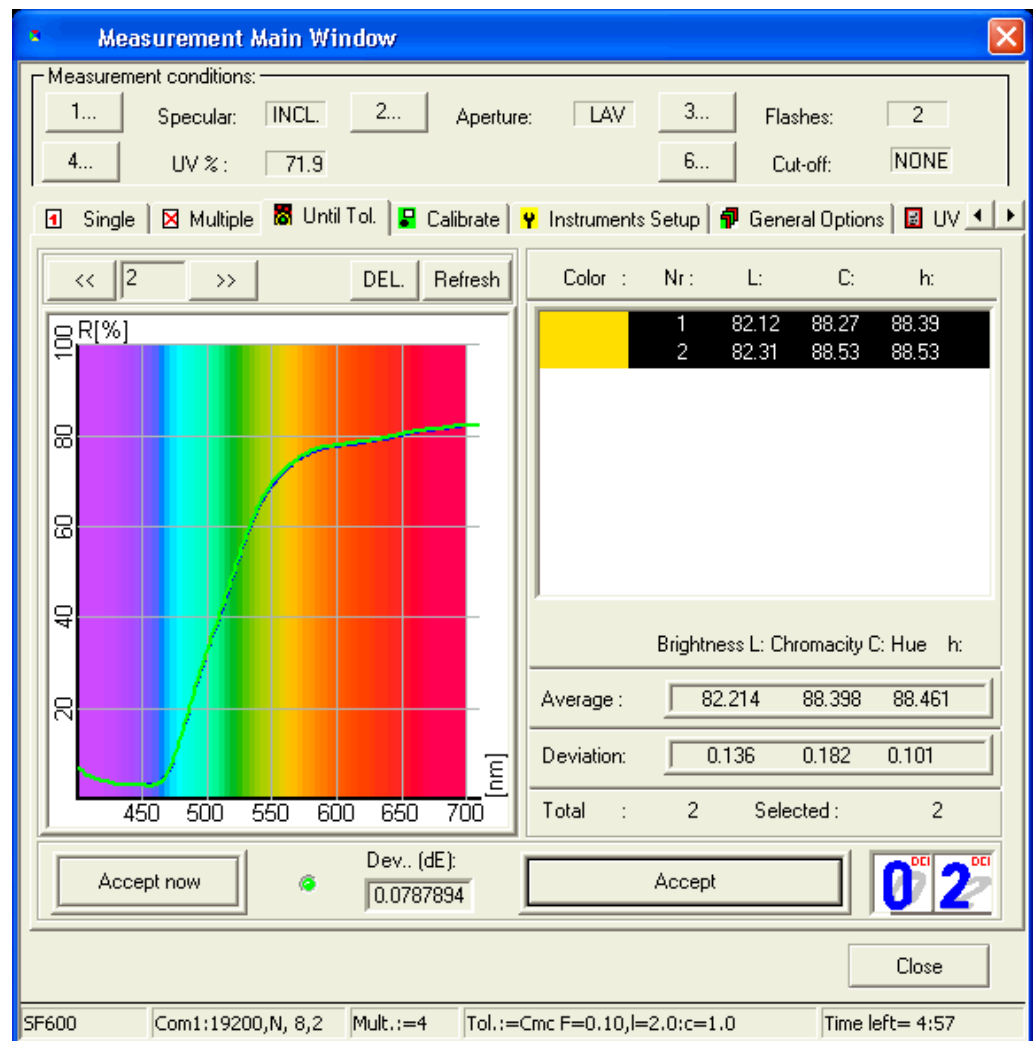
Measurements can also be canceled using the measurement selection and the **DEL** buttons at the top of the graph.

Accept now Selects all measurements.

Measure Executes the measurement.

Close Closes the "Measurement" dialog box and saves the currently calculated values.

Until Tolerance Tab



Parameters

Used for multiple measurement until the color differences do no longer exceed the tolerance values.

The graph and the fields show the result of the measurement. **Averages and deviation are calculated according to the selected measurements.**

Measurements can be selected or canceled in the table using the mouse.

Measurements can also be canceled using the measurement selection and the **DEL** buttons at the top of the graph.

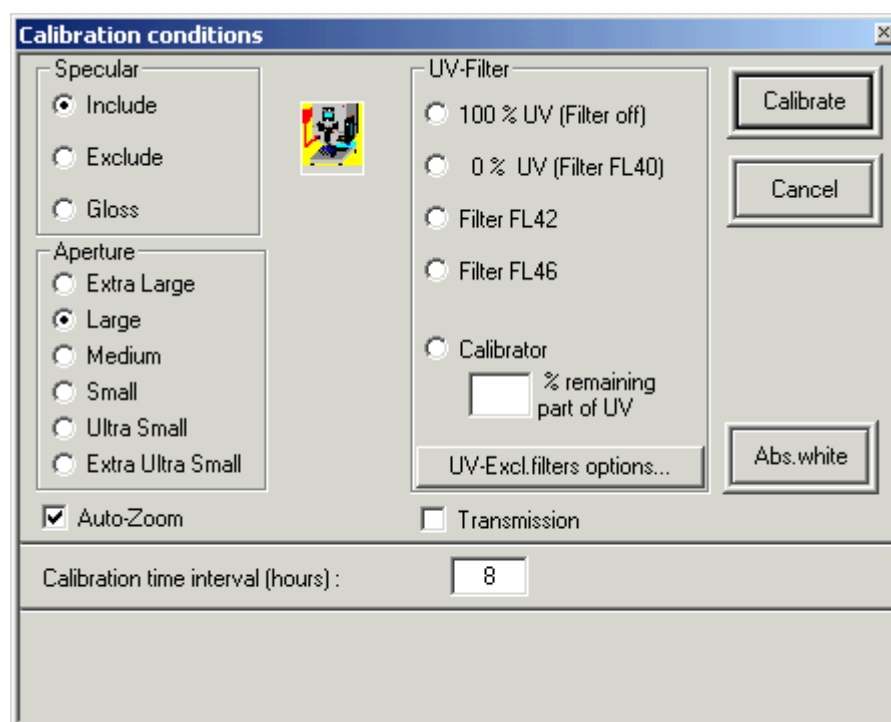
Accept now Selects all measurements.

Measure Executes the measurement.

Close Closes the "Measurement" dialog box and saves the currently calculated values.

Calibrate Tab

Opens the "Calibration Conditions" dialog box.



Refer to the manual of your spectrophotometer.

Instruments Setup Tab

Measurement Main Window

Measurement conditions:

1... Specular: INCL. 2... Aperture: LAV 3... Flashes: 2

4... UV %: 71.9 6... Cut-off: NONE

☒ Single ☒ Multiple ☒ Until Tol. ☒ Calibrate ☒ Instruments Setup ☒ General Options ☒ UV

Instrument type: SF600 : DCI Spectraflash 600

Driver requested: Unispef32.dll

Communication parameters: Com1:19200,N, 8,2

Communication port: Com1

Bits per Seconds: 19200 Advanced...

Data bits: 8

Parity bit: N

Stop bit: 2

Serial Number: 132

Save Setup

Close

SF600 Com1:19200,N, 8,2 Mult.:4 Tol.:Cmc F=0.10,l=2.0:c=1.0 Time left= 4:54

Parameters

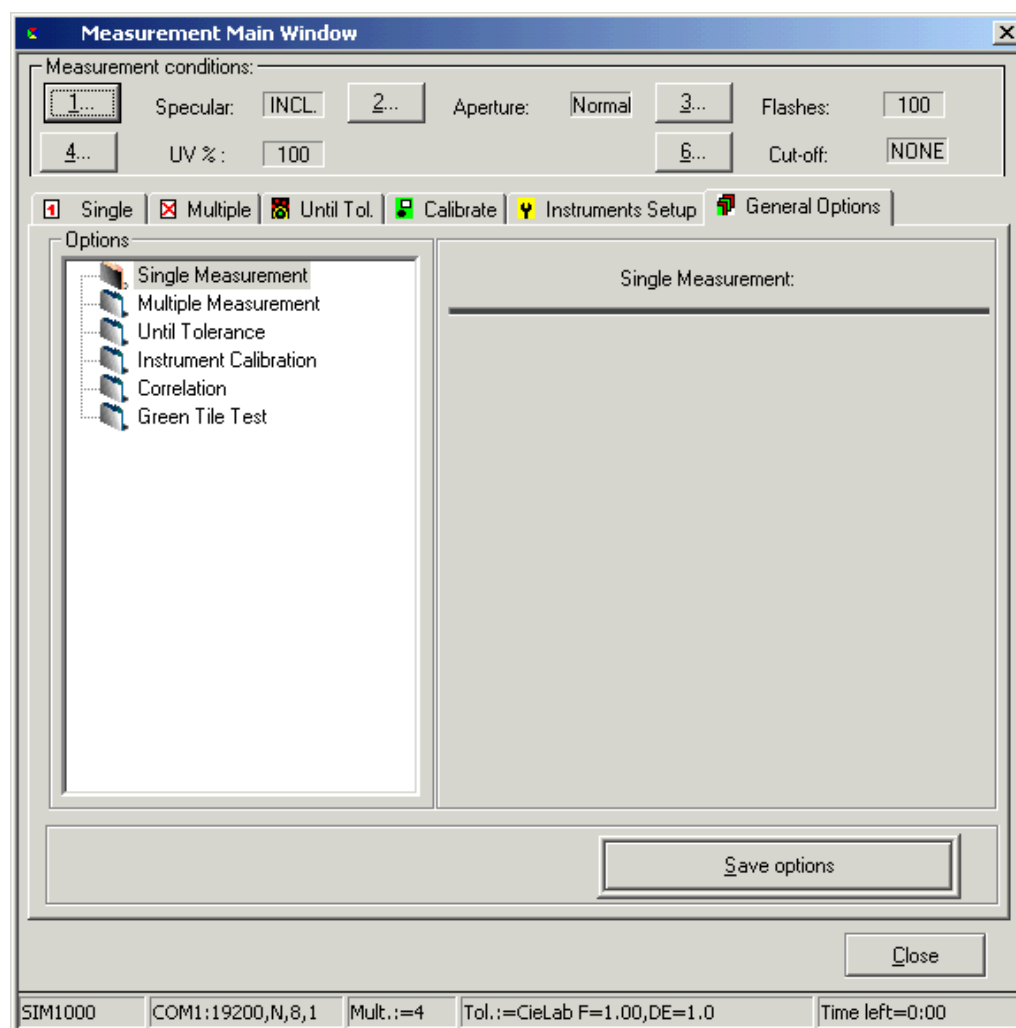


Caution

An alteration of these parameters can interrupt the communication between the PC and the spectrophotometer.

Refer to the manual of your spectrophotometer.

General Options Tab



Parameters

Definition of general parameters for single measurement, multiple measurement, until tolerance, calibration, and green tile test (Refer to [Green Tile Test on page 4-16](#)).

Until tolerance Select the formula and specify the tolerance to be accepted.

Correlation Refer to [Configuring and Enabling the Maestro Correlation Feature on page 4-14](#).

UV Calibration Tab

Calibration Methods



Note

There are several methods that can be used to calibrate the adjustable UV filter position. Please refer to the whiteness standard you are using to determine the method to be used.

Ganz/Griesser: This procedure uses the Ganz/Griesser calibration method. The light source is filtered to simulate the D65 Illuminant and the Ganz Griesser parameters are used to calculate the filter position. In addition, the target whiteness value is based on 10% standard observer data.

CIE using D65/10: The light source is filtered to simulate the D65 illuminant. This is the procedure used to perform a CIE Whiteness evaluation.

ISO Brightness (C): The light source is filtered to simulate Illuminant C. This is the procedure used to perform an ISO Brightness evaluation.

Example Using the Ganz/Griesser Method

The screenshot shows the 'Measurement Main Window' with the 'UV Calibration' tab selected. The window contains several sections for configuring measurement conditions and calibration parameters.

Measurement conditions:

- 1... Specular: EXCL. 2... Aperture: LAV 3... Flashes: 2
- 4... UV %: 68.0 6... Cut-off: NONE

Periodical Illuminant checker:

| Nominal Whiteness: | | UV Filter Position [%]: | |
|--------------------------|-----|-------------------------|----|
| Whiteness of test- tile: | 150 | Position to set [%]: | 70 |
| Whiteness found: | | using position [%]: | |
| Whiteness Difference: | | | |

UV Calibration Methods:

- D65/10 (Ganz-Griesser)
- D65/10 (CIE Whiteness)
- C (ISO Brightness)

Buttons: Multiple, Until Tol., Calibrate, Instruments Setup, General Options, UV Calibration, Whiteness parameters..., Re-Calibrate parameters..., Accept, Auto-Calibrator, Close.

Status Bar: SF600 COM1:19200,N, 8,2 Mult.:4 Tol.:CieLab F=1.00,DE=1.0 Time left=4:40

Refer to [UV Calibration on page 4-9](#).

Tolerance Block Program Dialog Box

General parameters

| | |
|--------------|---|
| Name | Unique name of the tolerance. |
| Modification | Date of last tolerance. |
| User ID | Identification of creating or modifying user. |
| Description | Text field. |

Buttons

| | |
|---------|--|
| Delete | Deletes the selected tolerance. |
| Default | Sets the default values in the selected tab. |
| Save | Saves the current tolerance. |
| Close | Closes the dialog box. |

[Refer the following pages for information about the tabs.](#)

CieLab Tab

Tolerance Block Program

Name: System
CieLab Default


Creation Date: 01.04.1999
Modification: 04.04.2000
User ID: DCI

Description:

☒ CieLab
 ☐ CMC
 ☐ Datacolor
 ☐ FMC2
 ☐ JPC79
 ☐ MS89
 ☐ Cie 94
 ☐ DIN 99

| Illuminant | dE* | dL* max | da* max | db* max | dC* max | dH* max |
|-----------------|------|---------|---------|---------|---------|---------|
| All Illuminants | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

☒ Symmetric tolerances



Delete
 Default
 Save

Close

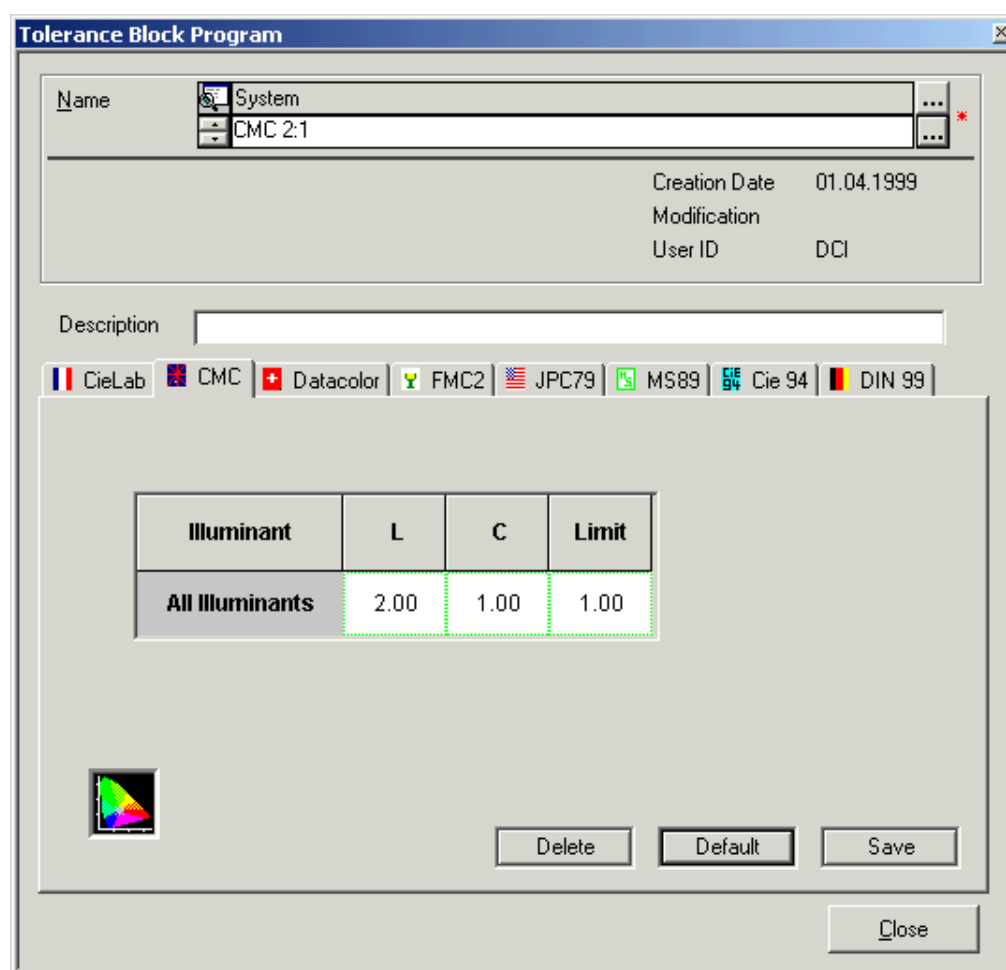
Parameters

Table Input values for minimum and maximum tolerances.

Symmetric Tolerances Minimum and maximum values are symmetric.

Refer to [Specifying, Modifying or Deleting Tolerances on page 4-22](#).

CMC Tab



Parameters

Table Input values for minimum and maximum tolerances.

Refer to *Specifying, Modifying or Deleting Tolerances* on page 4-22.

Datacolor Tab

Parameters

| | |
|--------------------------|---|
| Datacolor Block Training | Opens the “Datacolor Tolerance Block” dialog box. |
| Block Manual Input | Opens the “Manual Input of Tolerance Values” dialog box. |
| Tolerance Values | Opens the “Tolerance Values Output” dialog box used for information about tolerance values. |

Refer to [Specifying, Modifying or Deleting Tolerances on page 4-22](#).

FMC2 Tab

Tolerance Block Program

Name: System
FMC-2

Creation Date: 01.04.1999
Modification:
User ID: DCI

Description:

☐ CieLab
 ☐ CMC
 ☐ Datacolor
 ☒ FMC2
 ☐ JPC79
 ☐ MS89
 ☐ Cie 94
 ☐ DIN 99

| Illuminant | Limit |
|-----------------|-------|
| All Illuminants | 1.00 |

Parameters

Table Input for tolerance value.

Refer to [Specifying, Modifying or Deleting Tolerances on page 4-22](#).

JPC79 Tab

The screenshot shows the 'Tolerance Block Program' dialog box with the 'JPC79' tab selected. The 'Name' field contains 'System' and 'JPC-79'. The 'Creation Date' is '01.04.1999', 'Modification' is blank, and 'User ID' is 'DCI'. The 'Description' field is empty. Below the description is a row of color management system icons: CieLab, CMC, Datacolor, FMC2, JPC79 (selected), MS89, Cie 94, and DIN 99. A table with two columns, 'Illuminant' and 'Limit', is displayed. The table has one row with 'All Illuminants' and '1.00'. At the bottom left is a small logo with the letters 'DC'. At the bottom right are buttons for 'Delete', 'Default', 'Save', and 'Close'.

| Illuminant | Limit |
|-----------------|-------|
| All Illuminants | 1.00 |

Parameters

Table Input for tolerance value.

Refer to [Specifying, Modifying or Deleting Tolerances on page 4-22](#).

MS89 Tab

Tolerance Block Program

Name:

Creation Date: 01.04.1999
Modification:
User ID: DCI

Description:

☐ Cielab
 ☐ CMC
 ☐ Datacolor
 ☐ FMC2
 ☐ JPC79
 ☒ MS89
 ☐ Cie 94
 ☐ DIN 99

Only illuminants msTL84-10, msD65-10 and msA-10 are approved for MS89!

| Illuminant | dE* | DH | 'DC' | 'DL' |
|------------|------|------|------|------|
| msTL84-10 | 1.20 | 0.60 | 0.80 | 0.80 |
| msD65-10 | 1.50 | 0.75 | 1.00 | 1.00 |
| msA-10 | 1.50 | 0.75 | 1.00 | 1.00 |

Parameters

Table Input of dE values. The other tolerance values are calculated.
Refer to [Specifying, Modifying or Deleting Tolerances on page 4-22](#).

**Note**

The user can only modify the dE values. DH, DC and DL are calculated automatically. These values are displayed after saving the tolerance, and closing and opening the dialog box.

Cie 94 Tab

The screenshot shows the 'Tolerance Block Program' dialog box with the 'Cie 94' tab selected. The dialog has a title bar with a close button. Inside, there's a 'Name' field with a dropdown menu showing 'System' and a red asterisk icon. Below this is a section for 'Creation Date', 'Modification', and 'User ID'. A 'Description' field is also present. A row of tabs includes 'CieLab', 'CMC', 'Datacolor', 'FMC2', 'JPC79', 'MS89', 'Cie 94' (selected), and 'DIN 99'. The 'Cie 94' section contains input fields for 'DE : 1', 'CIE94 (l : c : h)', 'KI : 2', 'Kc : 1', and 'Kh : 1'. At the bottom left is a 'CIE' logo, and at the bottom right are 'Delete', 'Default', 'Save', and 'Close' buttons.

Parameters

Table Input for tolerance values.

Refer to [Specifying, Modifying or Deleting Tolerances on page 4-22](#).

DIN99 Tab

Tolerance Block Program

Name: System

Creation Date
Modification
User ID

Description:

☐ CieLab
 ☐ CMC
 ☐ Datacolor
 ☐ FMC2
 ☐ JPC79
 ☐ MS89
 ☐ Cie 94
 ☒ DIN 99

DIN99 Parameters: Ke = 1 Change Kch = 1

DE(99): 1

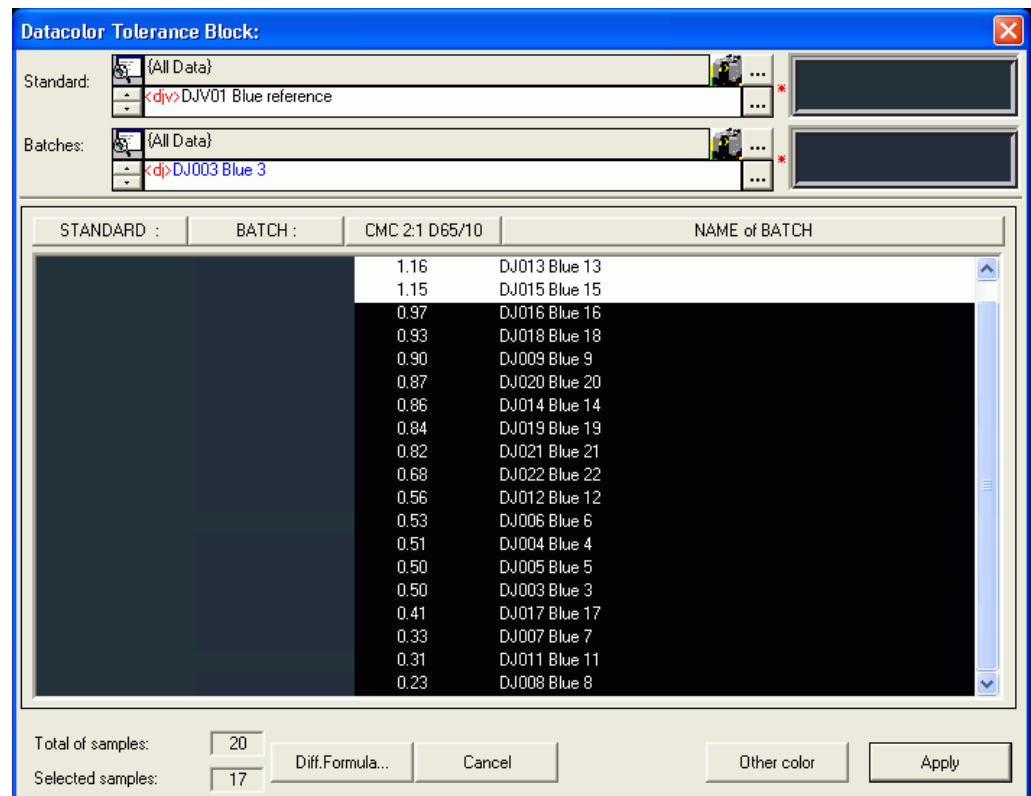
| Deltas: | Low | High |
|---------|-----|------|
| L(99): | 0 | 0 |
| a(99): | 0 | 0 |
| b(99): | 0 | 0 |
| C(99): | 0 | 0 |
| H(99): | 0 | 0 |

Parameters

Table Input for tolerance values.

Refer to [Specifying, Modifying or Deleting Tolerances on page 4-22](#).

Datacolor Tolerance Block Dialog Box



Standard

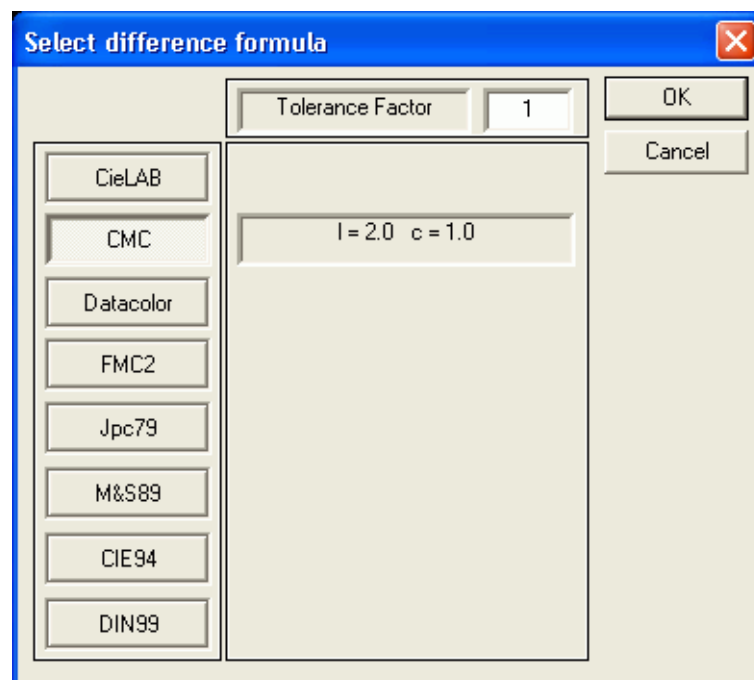
Selection or measurement of the standard.

Batch

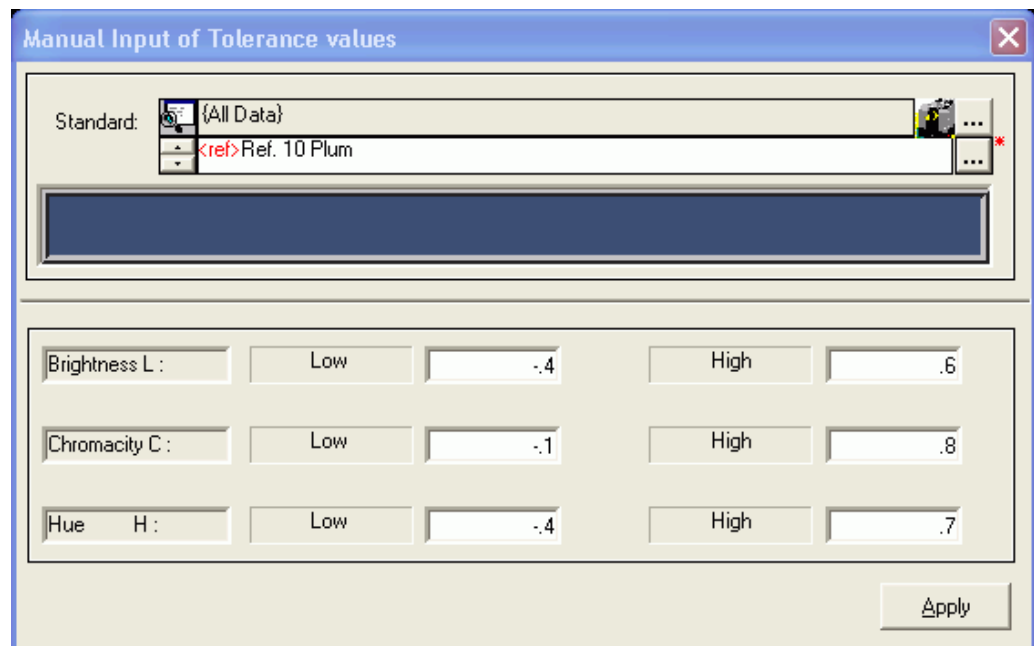
Selection or measurement of the batch.

Diff. Formula (button)

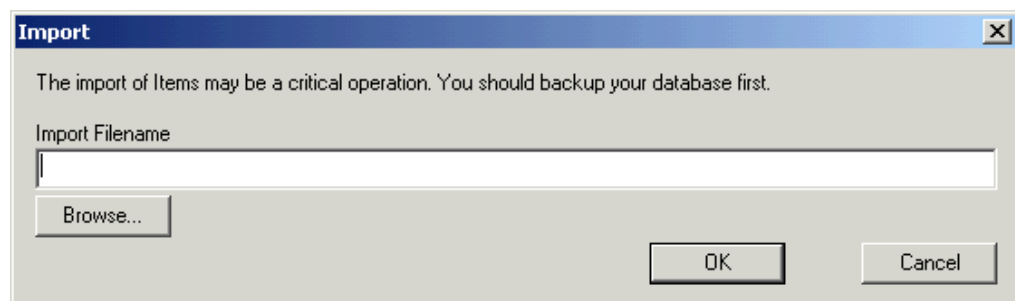
Opens the „Select Difference Formula“ dialog box for the selection of the formula.



Manual Input of Tolerance Values Dialog Box



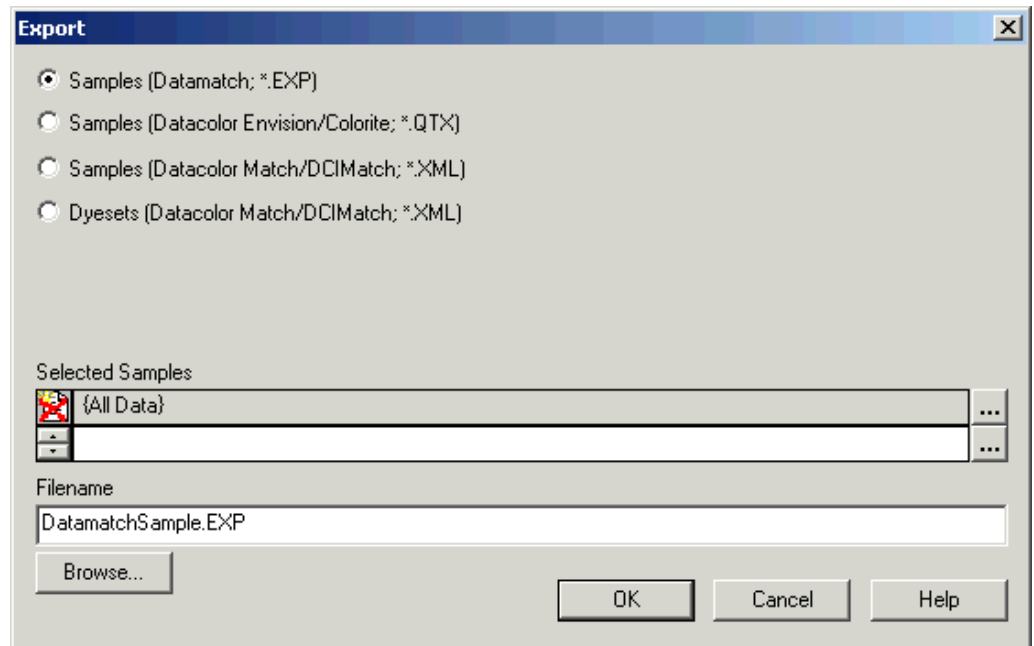
Import Dialog Box



Parameters

| | |
|------------------|--|
| Import File Name | Path and name of the file to be imported. Use the „Browse“ button for searching and selecting. |
| Browse (button) | Displays the Windows standard „Open“ dialog box. |

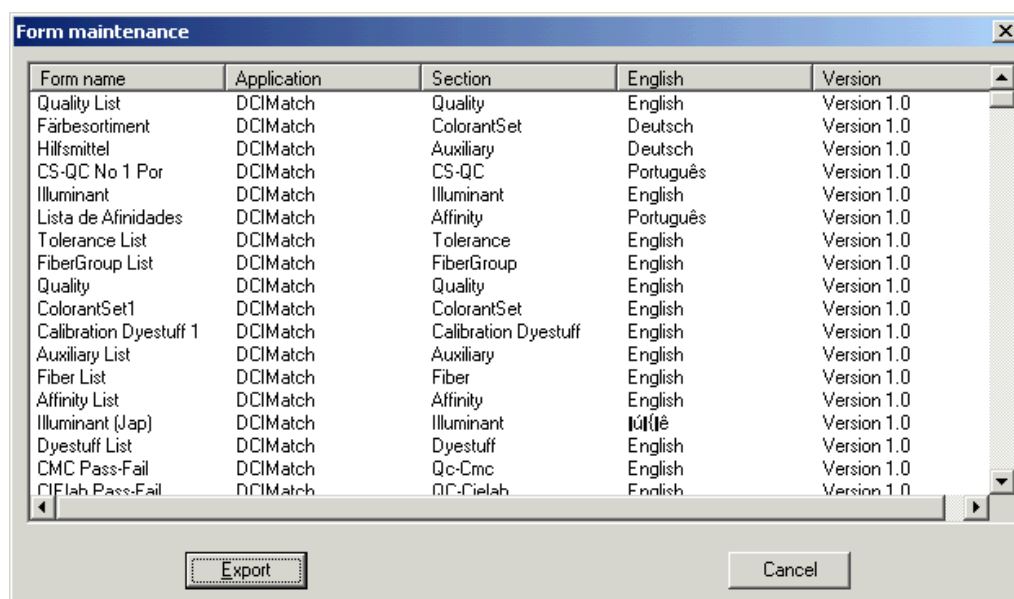
Export Dialog Box



Parameters

| | |
|------------------|---|
| Radio buttons | Selection of the sample format. |
| Selected Samples | Selection of the color samples to be exported. |
| File Name | Path and name of the export file. |
| Browse (button) | Displays the Windows standard „Save as“ dialog box. |

Form Maintenance Dialog Box



Parameters

| | |
|-------------|-----------------------------|
| Form name | Name of the print form. |
| Application | Application. |
| Section | Sub-program. |
| English | Language of the print form. |
| Version | Version of the print form. |

Buttons

| | |
|--------|---|
| Export | Exports the print form file to the selected location. |
|--------|---|

Pager Window

Page View Designer specific Menu Functions

„File“ menu

- | | |
|---------------|--|
| Import | Opens the “Open” dialog box used to import an exported print form. |
| Export | Opens the “Form Maintenance” dialog box used to select and export print forms. |
| Delete/Rename | Opens the “Form Maintenance” dialog box used for renaming and deleting print forms. |
| Page Setup | Opens the “Page Setup” dialog box used for specifying the left and the right margin. |

„Edit“ menu

- | | |
|--|---|
| Remove all fields from current section | Removes the fields from the selected section. |
| Hide current section | Hides the selected section. |

„Sections“ menu

List of the sections that are available for the current print form. Checked sections are currently used for the form.

„View“ menu

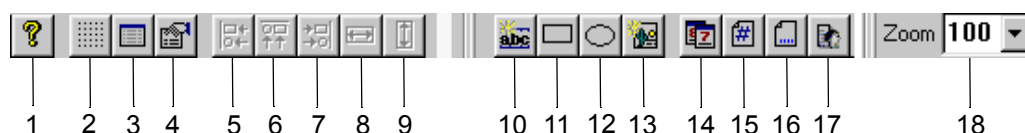
- | | |
|------------|--|
| Toolbar | Switches the toolbar on (check mark) and off. |
| Status Bar | Switches the status bar on (check mark) and off. |

| | |
|------------|--|
| Fields | Opens the "Fields" information box with the database fields used for the selected section. |
| Properties | Opens the "Properties" of the selected field. |
| Look | Opens the "Look" dialog box used for window settings. |

„Layout“ menu

Help functions for a correct alignments of fields.

Page View Designer specific Toolbar Functions



| | | |
|----|----------------------|--|
| 1 | About | Page View Designer version info. |
| 2 | Grid, Zoom, Ruler | Opens the "Look" dialog box used for window settings. |
| 3 | Toggle Fields | Opens the "Fields" information box with the database fields used for the selected section. |
| 4 | Toggle Properties | Opens the "Properties" of the selected field. |
| 5 | Left Alignment | Active if more than one field is selected. |
| 6 | Top Alignment | Active if more than one field is selected. |
| 7 | Right Alignment | Active if more than one field is selected. |
| 8 | Same Horizontal Size | Active if more than one field is selected. |
| 9 | Same Vertical Size | Active if more than one field is selected. |
| 10 | Text | Used to specify a text field. |
| 11 | Rectangle | Used to draw rectangles. |
| 12 | Ellipse | Used to draw ellipses. |
| 13 | Bitmap | Used to enter a picture, e.g., a logo. Supported formats: *.bmp, *.pcx, *.jpg. |
| 14 | Date/Time | Used to enter a field with date and time. |
| 15 | Page Number | Used to enter a page count field. |
| 16 | Form Name | Used to enter a field for the form name. |
| 17 | Login User | Used to insert the Name of the logged in user. |
| 18 | Zoom | Selection of predefined zoom values. |

7

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