

SLIDEBEL DUO

Automatic Slide labelling

Slidebel Duo Tools 1.0.5

Order No: SBD-TOOLS

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Read carefully before working with the instrument

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1. Introduction

1. Introduction

Slidebel Duo Tools is a free software tool for the Slidebel Duo printer. It can be used to customize label formats and to print slides. It also allows the user to change some printer settings. Slidebel Duo Tools is divided into 3 main panels:

1. Printing panel
2. Label layout editor panel
3. Printer settings panel

2. Printing form

2. Printing form

The Printing form allows to print slides based on the selected label layout.

The screenshot shows the 'Slidebel Tools Duo 1.0.0' application window. The 'Printing' tab is active, showing a 'Standard' layout. The interface includes several input fields and buttons:

- Input Fields:** 'Lab' (text: Lab), 'Code' (text: Code), 'Staining' (dropdown: HEX), and 'Number' (text: 1).
- Print Preview:** A large area showing the layout of the printed slide with the text 'Lab', 'Code', 'HEX', and the number '1' next to a QR code.
- Buttons:** 'Print', 'Manual', 'Left', 'Both', 'Right', 'Select Printer', and 'Clear All'.
- Number of slides:** A control with minus, plus, and a central '1' button.
- Printer Selection:** A dropdown menu showing 'TSC TTP-225'.

Annotations with arrows point to these elements:

- Type label information:** Points to the input fields for Lab, Code, Staining, and Number.
- Print preview:** Points to the large area showing the slide layout.
- Print the selected number of slides:** Points to the 'Print' button.
- Number of slides:** Points to the minus, plus, and '1' buttons.
- Printing mode:** Points to the 'Manual', 'Left', 'Both', and 'Right' buttons.
- Select printer:** Points to the 'Select Printer' button.
- Clear fields:** Points to the 'Clear All' button.

2.1 Preview form

The preview form will update as information is entered in the layout fields.

Some fields are static or automatically generated and do not require any input. The label layout, the number and type of fields in the layout can be modified from the **Label Layout** edit panel

In the example below, once the staining code is selected, it will appear in the print form.

2. Printing form

The screenshot shows a form with four input fields: 'Lab' (text), 'Code' (text), 'Staining' (dropdown menu), and 'Number' (text with a checkbox and a spinner). To the right is a preview of the printed slide layout. Red arrows point from the form fields to the corresponding labels in the preview: 'Lab' to the top text, 'Code' to the middle text, 'HEX' to the bottom text, and '1' to the number in the bottom right corner. A QR code is positioned in the top right of the slide layout.

2.2 Enumerators and number of copies

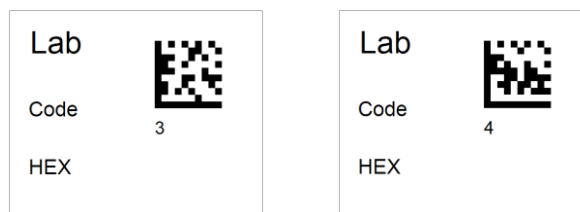
If an enumerator field is present in the label layout, it can be activated by pressing the appropriate checkbox. The program will issue a corresponding number of slides.



When the checkbox next to an enumeration field is selected, the number of copies in the print button area disappear. The program automatically prints all the possible combinations of slides.

This screenshot shows the same form as above but with annotations. The 'Number' field contains '3' and has a checked checkbox next to it. A spinner next to the checkbox shows the number '2'. Below the form is a 'Print' button area with buttons for 'Print', 'Manual', 'Left', 'Both', and 'Right'. Annotations with arrows point to: 'Enumeration field' (pointing to the 'Number' field), 'Starting number' (pointing to the '3' in the 'Number' field), 'Enable automatic enumeration' (pointing to the checked checkbox), and 'Number of slides of the sequence' (pointing to the '2' in the spinner).

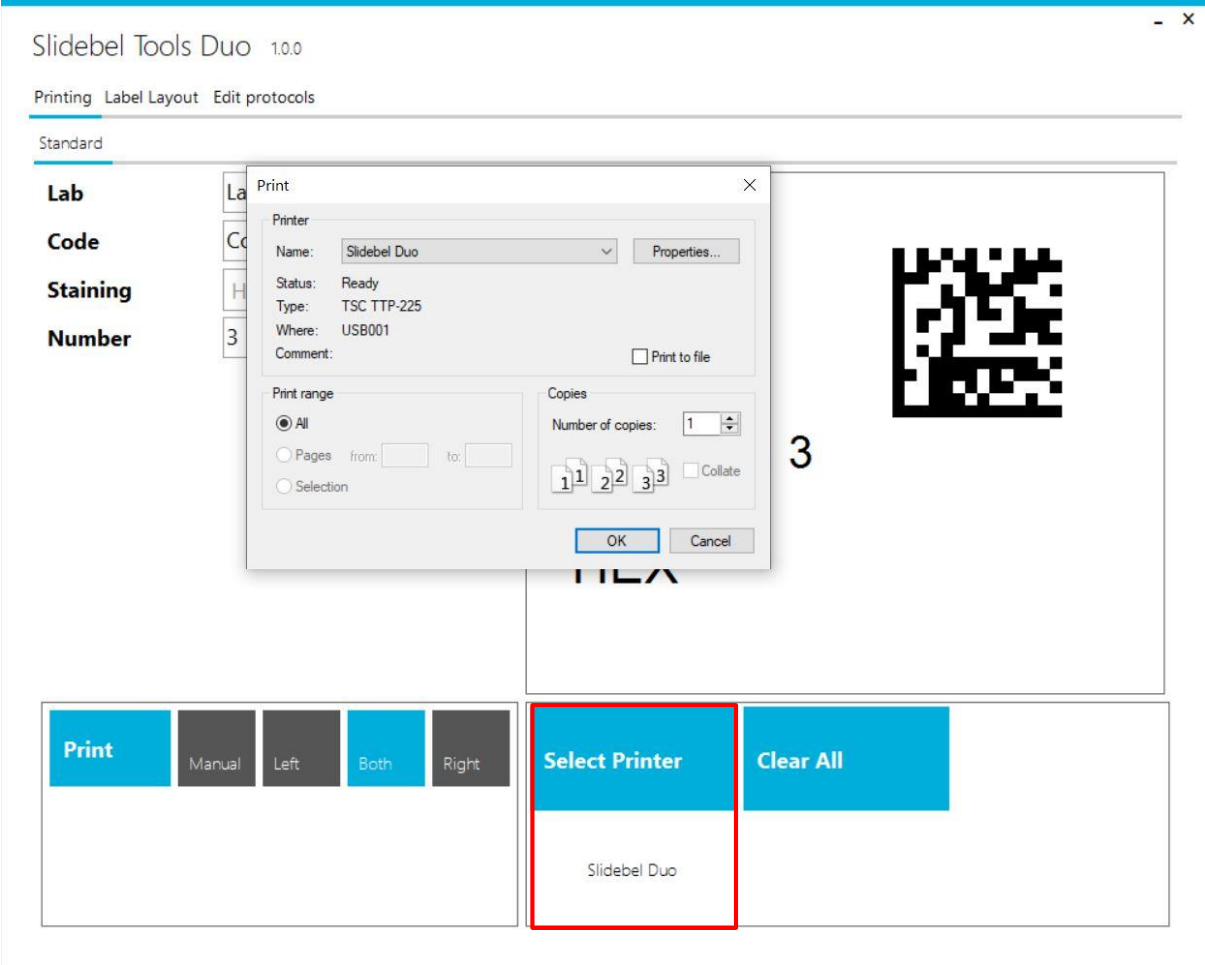
The example above will issue two slides:



2. Printing form

2.3 Default Printer selection

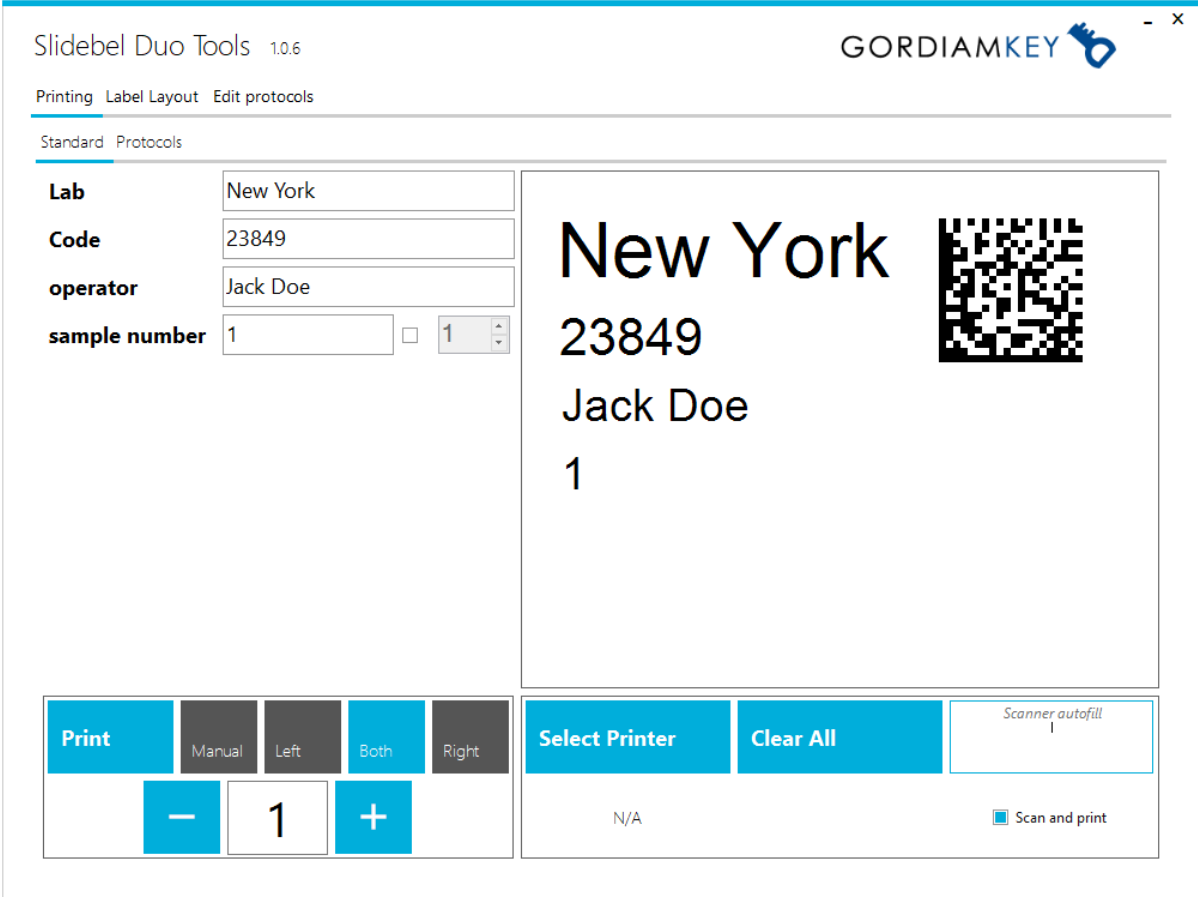
The default printer can be selected from a list of installed printers by pressing the button **“Select Printer”**



2. Printing form

2.4 Scanner mode

If scanner mode is enabled, the Printing Panel will show the options “*Scanner autofill*” and the checkbox “*Scan and print*”. After scanning a 1D or 2D code, the fields will be automatically filled as shown in the picture. To automatically print the label after the scan, the checkbox “*Scan and print*” must be activated.



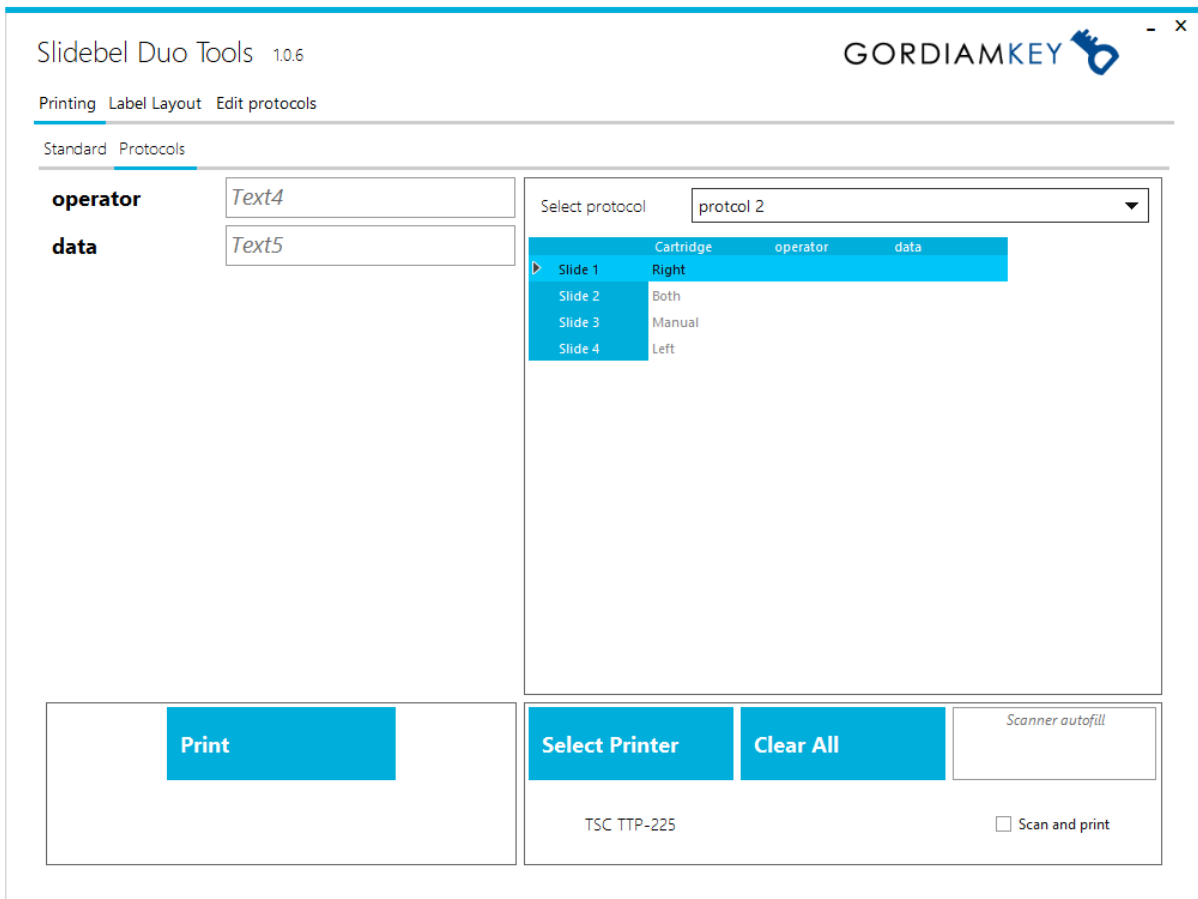
2. Printing form

2.5 Protocols Panel

The tab “**Protocols**” can be accessed to print a number of slides according to a specific printing protocol. This panel will only be visible if at least one printing protocol is present. To create, modify, and remove existing printing protocols, visit the “**Edit protocols**” panel, further information on this topic can be found in section 4 Protocols panel.



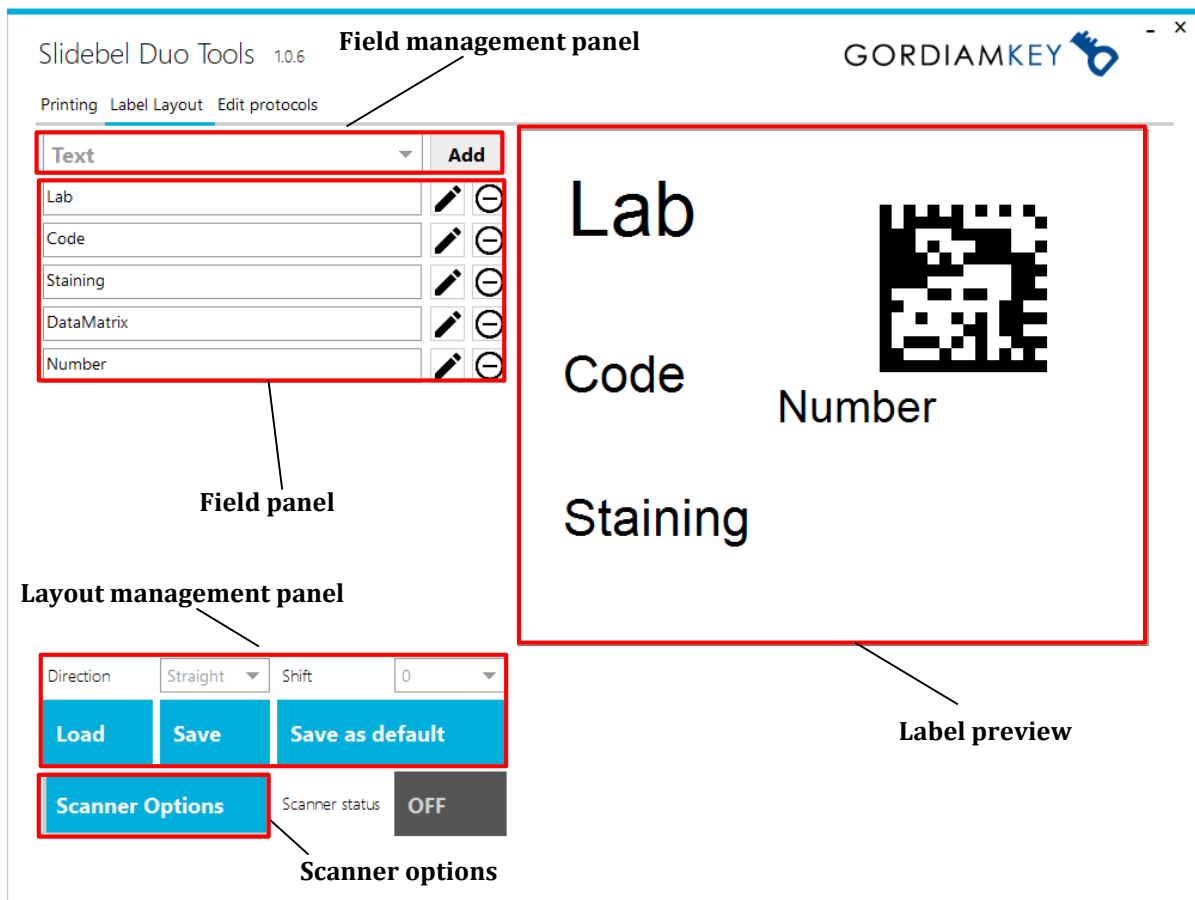
In the “**Protocols**” tab, select the desired protocol and fill in the printing fields or use the automatic scanner option.



3. Label Layout editor panel

3. Label Layout editor panel

The Label Layout editor panel allows to create and edit the label layout.



3.1 Field management panel



“**Add**” allows the user to add a field in the layout. The field type can be selected in the selection box.

The field can be a **Text**, which contains a string of letters or numbers, or a **Code**, like a barcode or a 2D code.



A maximum of 9 fields can be added in a single layout. A maximum of 2 fields of **Code** type may be used.

3. Label Layout editor panel

3.2 Layout management panel

The buttons *Load*, *Save*, and *Default* are used to manage the label layout files in the application.



- **“Load”**: allows the user to load a previously saved layout. Only files with “.slbl” extension can be opened. This will also load any protocol list associated with the layout.
- **“Save”**: allows the user to save the current layout. A file with “.slbl” extension will be created. This will also save any protocol list associated with the layout.
- **“Save as default”**: allows the user to set the current layout as default in the printing panel, and use it to print slides.

3.3 Label preview

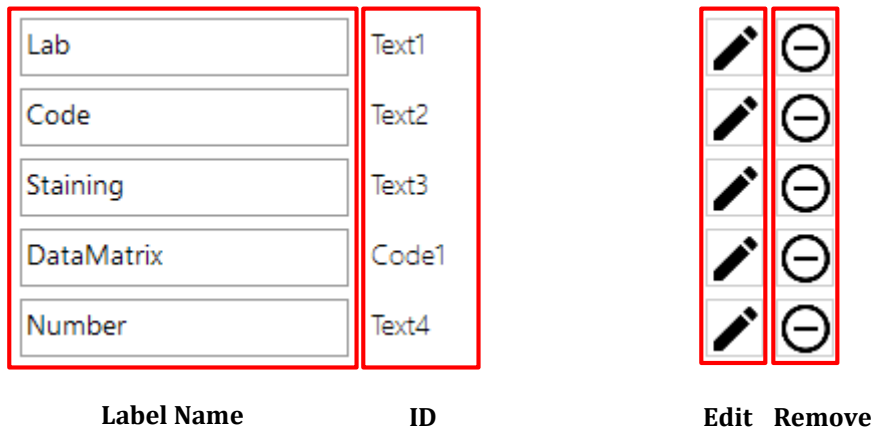
The Label preview panel displays the current label layout:




3. Label Layout editor panel

3.4 Field panel

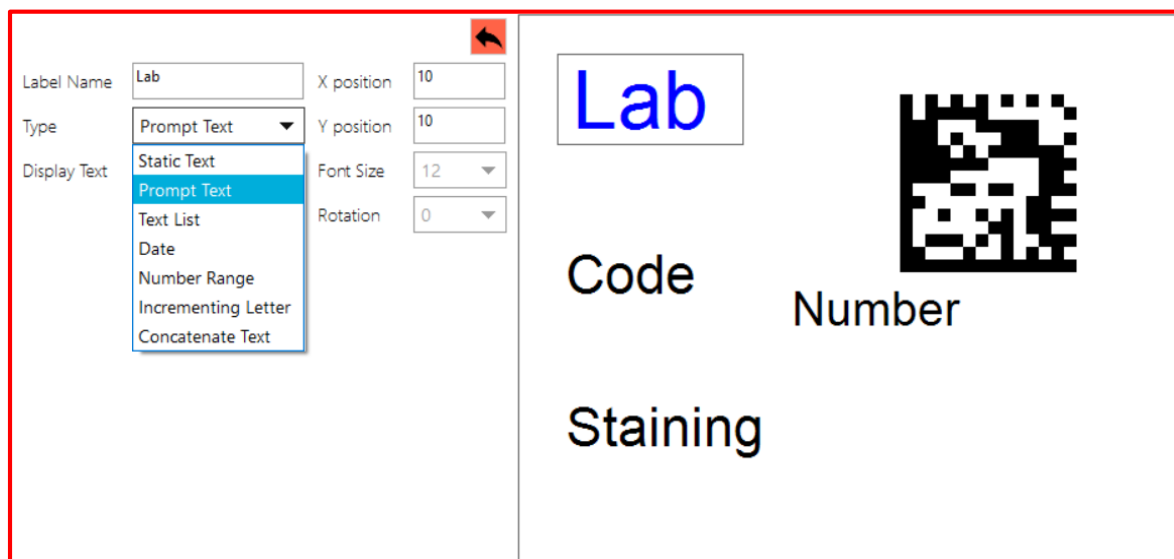
The Field panel is used to edit or remove the label layout fields.



3.5 Edit a Text field

Once a Text field has been added, it can be edited in the Edit panel, by pressing the button 

The selected text field being edited will be highlighted in the Label preview panel.



Edit panel

There are different types of text field:

- **Static text:** fixed text, not editable in the Printing panel
- **Prompt text:** editable text in the Printing panel
- **Text list:** text list presented in a combo box in the Printing panel

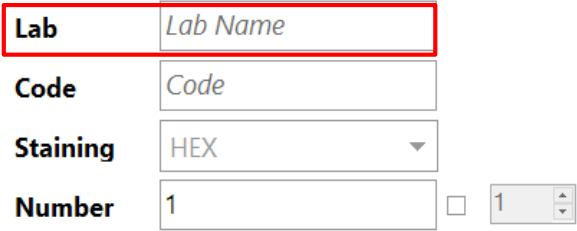
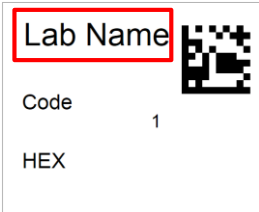
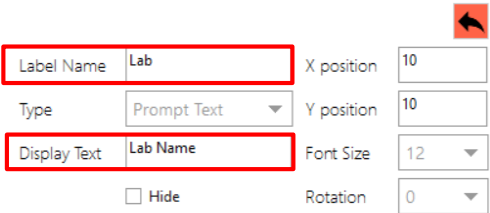
3. Label Layout editor panel

- **Date:** text containing the current system date
- **Number range:** text containing a number, automatically incrementing with the number of slides printed
- **Incrementing letter:** text containing a letter, automatically incrementing with the number of slides printed
- **Concatenate text:** text containing other elements, divided by a separator

3. Label Layout editor panel

3.5.1 Prompt Text


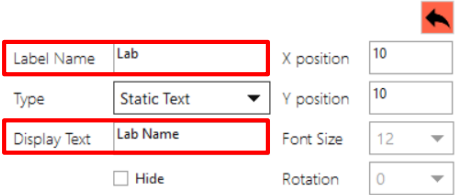
- **Label Name:** the field's name, as shown in the Printing panel
- **Display Text:** the suggested text, as shown in the Printing panel
- **X position:** the horizontal position of the field
- **Y position:** the vertical position of the field
- **Font Size:** the text's font size
- **Rotation:** the angle of pattern rotation of the text
- **Hide:** if selected, the field will not be printed

Printing panel	 <p>Lab <input type="text" value="Lab Name"/></p> <p>Code <input type="text" value="Code"/></p> <p>Staining <input type="text" value="HEX"/></p> <p>Number <input type="text" value="1"/> <input type="checkbox"/> <input type="text" value="1"/></p>
Print preview	 <p>Lab Name</p> <p>Code 1</p> <p>HEX</p>
Edit panel	 <p><input type="text" value="Lab Name"/> <input type="text" value="Lab"/> X position <input type="text" value="10"/></p> <p>Type <input type="text" value="Prompt Text"/> Y position <input type="text" value="10"/></p> <p><input type="text" value="Display Text"/> <input type="text" value="Lab Name"/> Font Size <input type="text" value="12"/></p> <p><input type="checkbox"/> Hide Rotation <input type="text" value="0"/></p>

3. Label Layout editor panel

3.5.2 Static Text



- **Label Name:** the field's name. This will not be visible in the printing panel
- **Display Text:** the string that will be printed
- **X position:** the horizontal position of the field
- **Y position:** the vertical position of the field
- **Font Size:** the text's font size
- **Rotation:** the angle of pattern rotation of the text
- **Hide:** if selected, the field will not be printed

Printing panel	Code <input type="text" value="Code"/> Staining <input type="text" value="HEX"/> Number <input type="text" value="1"/> <input type="checkbox"/> <input type="text" value="1"/>
Print preview	
Edit panel	

3. Label Layout editor panel

3.5.3 Text List

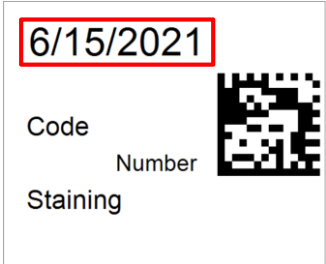
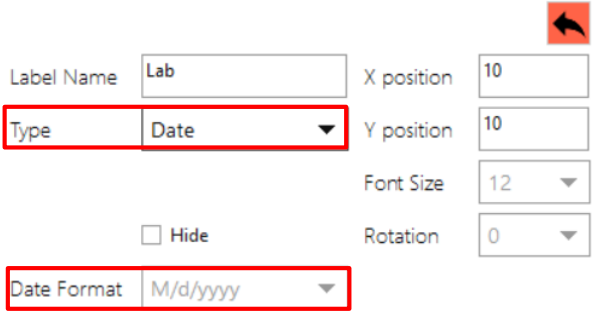
- **Label Name:** the field's name, as shown in the Printing panel
- **X position:** the horizontal position of the field
- **Y position:** the vertical position of the field
- **Font Size:** the text's font size
- **Rotation:** the angle of pattern rotation of the text
- **Hide:** if selected, the field will not be printed
- **List:** the list of selectable strings of the text field

<p style="text-align: center;">Printing panel</p>	<p>Lab LAB1</p> <p>Code LAB1</p> <p>Staining LAB2 HEX</p> <p>Number 1 <input type="checkbox"/> 1</p>
<p style="text-align: center;">Print preview</p>	
<p style="text-align: center;">Edit panel</p>	<p>Label Name Lab X position 10</p> <p>Type Text List Y position 10</p> <p>Font Size 12</p> <p>Hide <input type="checkbox"/> Rotation 0</p>
<p style="text-align: center;">List</p>	

3. Label Layout editor panel

3.5.4 Date

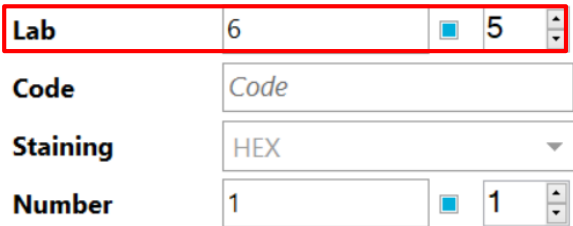

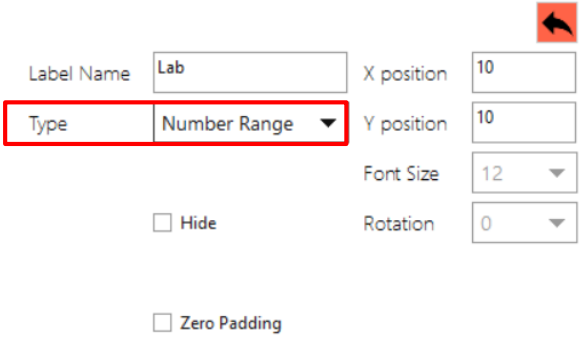
- **Label Name:** the field's name. This will not be visible in the printing panel
- **X position:** the horizontal position of the field
- **Y position:** the vertical position of the field
- **Font Size:** the text's font size
- **Rotation:** the angle of pattern rotation of the text
- **Hide:** if selected, the field will not be printed
- **Date format:** the desired date format

Printing panel	Code <input type="text" value="Code"/> Staining <input type="text" value="HEX"/> Number <input type="text" value="1"/> <input type="checkbox"/> <input type="text" value="1"/>
Print preview	 <p>The print preview shows a label with a date field '6/15/2021' highlighted in red. Below the date are labels for 'Code', 'Number', and 'Staining'. A QR code is visible on the right side of the label.</p>
Edit panel	 <p>The edit panel contains the following settings for the date field:</p> <ul style="list-style-type: none">Label Name: <input type="text" value="Lab"/>X position: <input type="text" value="10"/>Y position: <input type="text" value="10"/>Font Size: <input type="text" value="12"/>Rotation: <input type="text" value="0"/>Hide: <input type="checkbox"/>Type: <input type="text" value="Date"/> (highlighted in red)Date Format: <input type="text" value="M/d/yyyy"/> (highlighted in red) <p>A red arrow icon is located in the top right corner of the edit panel.</p>

3. Label Layout editor panel

3.5.5 Number range




- **Label Name:** the field's name, as shown in the Printing panel
- **X position:** the horizontal position of the field
- **Y position:** the vertical position of the field
- **Font Size:** the text's font size
- **Rotation:** the angle of pattern rotation of the text
- **Hide:** if selected, the field will not be printed
- **Zero-padding:** if selected, the number will be zero-padded

<p style="text-align: center;">Printing panel</p>	 <p>The screenshot shows the 'Printing panel' with four rows of controls. The first row, 'Lab', has a text input with '6', a blue square icon, and a spinner with '5'. The second row, 'Code', has a text input with 'Code'. The third row, 'Staining', has a dropdown menu with 'HEX'. The fourth row, 'Number', has a text input with '1', a blue square icon, and a spinner with '1'. A red box highlights the 'Lab' row.</p>
<p style="text-align: center;">Print preview</p>	 <p>The screenshot shows a print preview of a label. The number '6' is displayed in a red box. Below it, the text 'Code' is followed by '1', and 'HEX' is displayed below that. A QR code is visible to the right of the 'Code' field.</p>
<p style="text-align: center;">Edit panel</p>	 <p>The screenshot shows the 'Edit panel' with various settings. 'Label Name' is 'Lab'. 'X position' is '10'. 'Y position' is '10'. 'Font Size' is '12'. 'Rotation' is '0'. 'Type' is 'Number Range' (highlighted with a red box). There are checkboxes for 'Hide' and 'Zero Padding', both of which are unchecked. A red arrow icon is in the top right corner.</p>

3. Label Layout editor panel

3.5.6 Incrementing letter

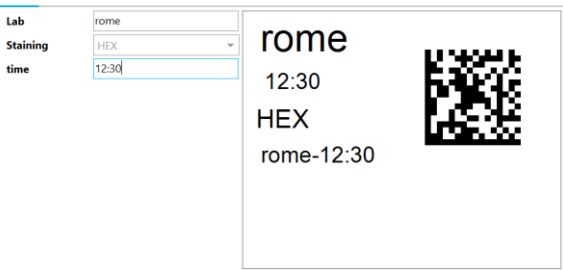
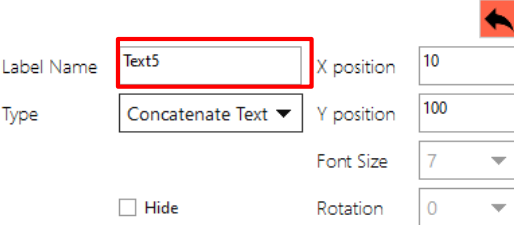
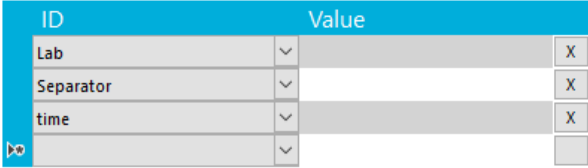
- **Label Name:** the field's name, as shown in the Printing panel
- **X position:** the horizontal position of the field
- **Y position:** the vertical position of the field
- **Font Size:** the text's font size
- **Rotation:** the angle of pattern rotation of the text
- **Hide:** if selected, the text will not be printed

<p style="text-align: center;">Printing panel</p>	 <p>The Printing panel contains four controls: a text input for 'Lab' with the value 'F', a numeric spinner for '5', a text input for 'Code' with the value 'Code', a dropdown for 'Staining' with the value 'HEX', and a numeric spinner for 'Number' with the value '1'. A red box highlights the 'Lab' and '5' controls.</p>
<p style="text-align: center;">Print preview</p>	 <p>The Print preview shows a label with the letter 'F' in a red box, a QR code, and the text 'Code' and 'HEX' with a '1' below it.</p>
<p style="text-align: center;">Edit panel</p>	 <p>The Edit panel contains several controls: a text input for 'Label Name' with the value 'Lab', a dropdown for 'Type' with the value 'Incrementing Letter', a checkbox for 'Hide', and numeric inputs for 'X position' (10), 'Y position' (10), 'Font Size' (12), and 'Rotation' (0). A red box highlights the 'Type' dropdown. A red arrow icon is in the top right corner.</p>

3. Label Layout editor panel


3.5.7 Concatenate text

- **Label Name:** the field's name, as shown in the Printing panel
- **X position:** the horizontal position of the field
- **Y position:** the vertical position of the field
- **Font Size:** the text's font size
- **Rotation:** the angle of pattern rotation of the text
- **Hide:** if selected, the text will not be printed
- **List:** the list of strings which will be concatenated in the text field

<p style="text-align: center;">Printing panel</p>											
<p style="text-align: center;">Print preview</p>											
<p style="text-align: center;">Edit panel</p>											
<p style="text-align: center;">List</p>	 <table border="1" data-bbox="772 1599 1362 1765"> <thead> <tr> <th>ID</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Lab</td> <td>X</td> </tr> <tr> <td>Separator</td> <td>X</td> </tr> <tr> <td>time</td> <td>X</td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>	ID	Value	Lab	X	Separator	X	time	X		
ID	Value										
Lab	X										
Separator	X										
time	X										

3. Label Layout editor panel

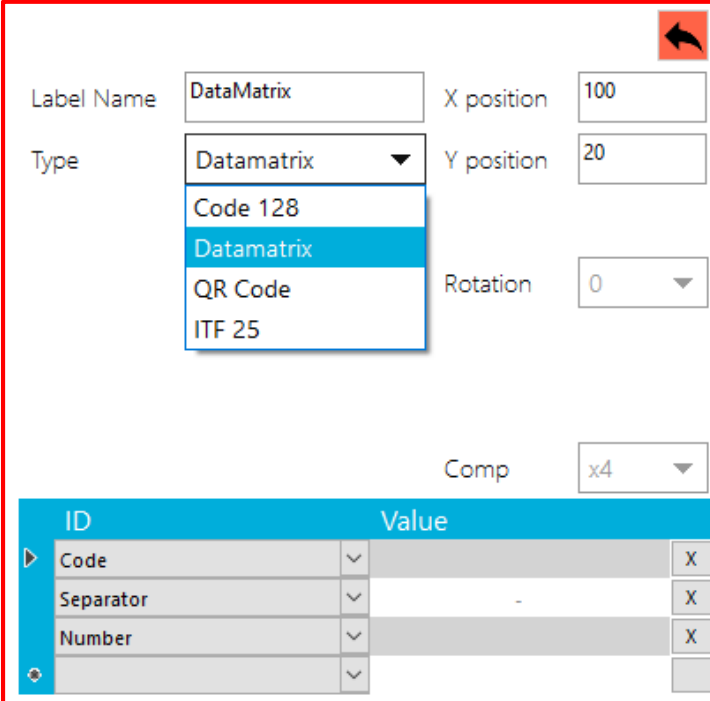
3.6 Edit a code field

Once a Code field has been added, it can be edited in the Edit panel, by pressing the button 

Codes contain data originating from the text fields, by means of prompt insertion, static texts and separators.

Four different types of codes can be used:

- Code 128
- Datamatrix
- QR Code
- ITF 25



The screenshot shows the 'Edit panel' for a code field. It includes the following controls:

- Label Name:** A text input field containing 'DataMatrix'.
- Type:** A dropdown menu with 'Datamatrix' selected. The dropdown list shows options: Code 128, Datamatrix (highlighted), QR Code, and ITF 25.
- X position:** A numeric input field containing '100'.
- Y position:** A numeric input field containing '20'.
- Rotation:** A dropdown menu with '0' selected.
- Comp:** A dropdown menu with 'x4' selected.
- Value List:** A table with columns 'ID' and 'Value'. It contains three rows: 'Code' with a dropdown arrow and an 'X' checkbox; 'Separator' with a dropdown arrow, a '-' value, and an 'X' checkbox; and 'Number' with a dropdown arrow and an 'X' checkbox.

- **Label Name:** The field's name, visible in the Edit panel
- **Type:** The type of the code
- **X position:** the horizontal position of the field
- **Y position:** the vertical position of the field
- **Comp:** The compression factor, only for Datamatrix and QR-code
- **Y Size:** The compression factor, only for Code 128 and ITF 25
- **ID list:** the IDs of the fields which will be concatenated in the code value
- **Value List:** the list of string which will be concatenated in the code value

3. Label Layout editor panel

3.6.1 Datamatrix

Label Name X position
Type Y position
Edit panel Rotation

Comp


ID	Value
code	X
Separator	-
number	X

List

Printing panel

Code Staining Number

12345/1

Lab 
12345
HEX
1

Print preview

3. Label Layout editor panel

3.6.2 QR code



Label Name: DataMatrix X position: 100
Type: QR Code Y position: 20
Rotation: 0

Comp: x2

ID	Value	
Code		X
Separator	-	X
Number		X

List

Printing panel

12345/1

Code: 12345
Staining: HEX
Number: 1



Print preview

3. Label Layout editor panel

3.6.3 Code 128



Label Name	<input type="text" value="Code128"/>	X position	<input type="text" value="53"/>
Type	<input type="text" value="Code 128"/>	Y position	<input type="text" value="83"/>

Edit panel

Rotation	<input type="text" value="0"/>
----------	--------------------------------

Y size	<input type="text" value="30"/>
--------	---------------------------------


ID	Value	
code		X
▶ Separator	-	X
number		X
◆		

List

12345-1

Code	<input type="text" value="12345"/>	→
Staining	<input type="text" value="HEX"/>	→
Number	<input type="text" value="1"/>	→

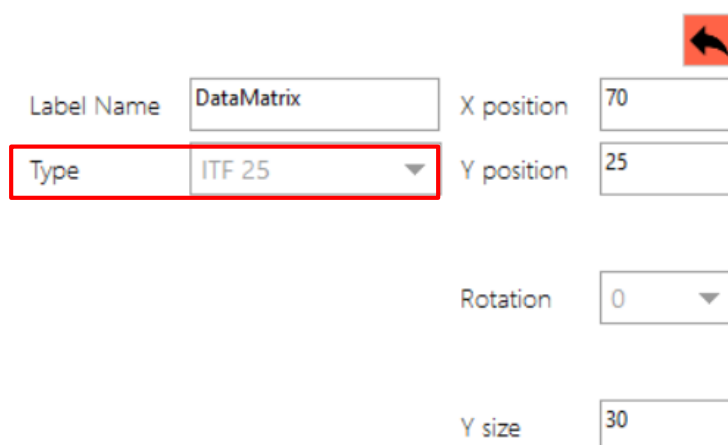
Printing panel

Lab	
12345	1
HEX	

Print preview

3. Label Layout editor panel

3.6.4 ITF 25:

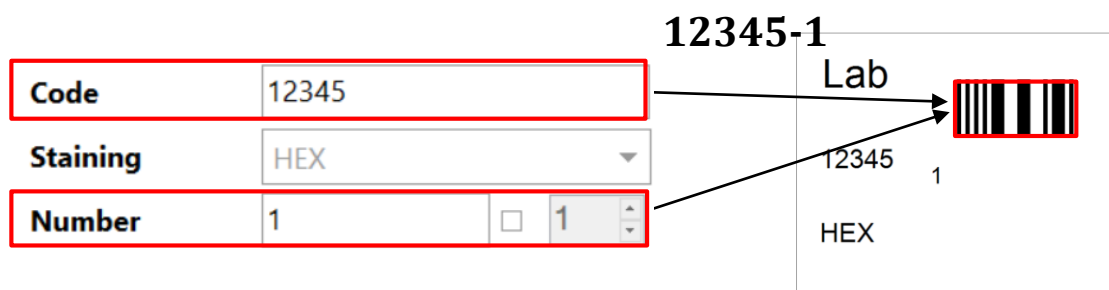


Label Name X position
Type Y position
Rotation
Y size

Edit panel

ID	Value
Code	
Separator	-
Number	

List



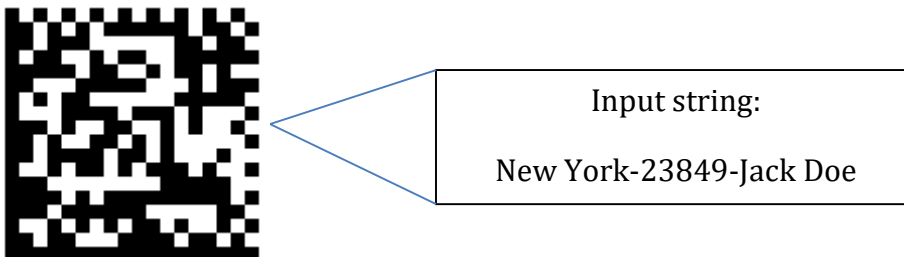
3. Label Layout editor panel

3.7 Scanner

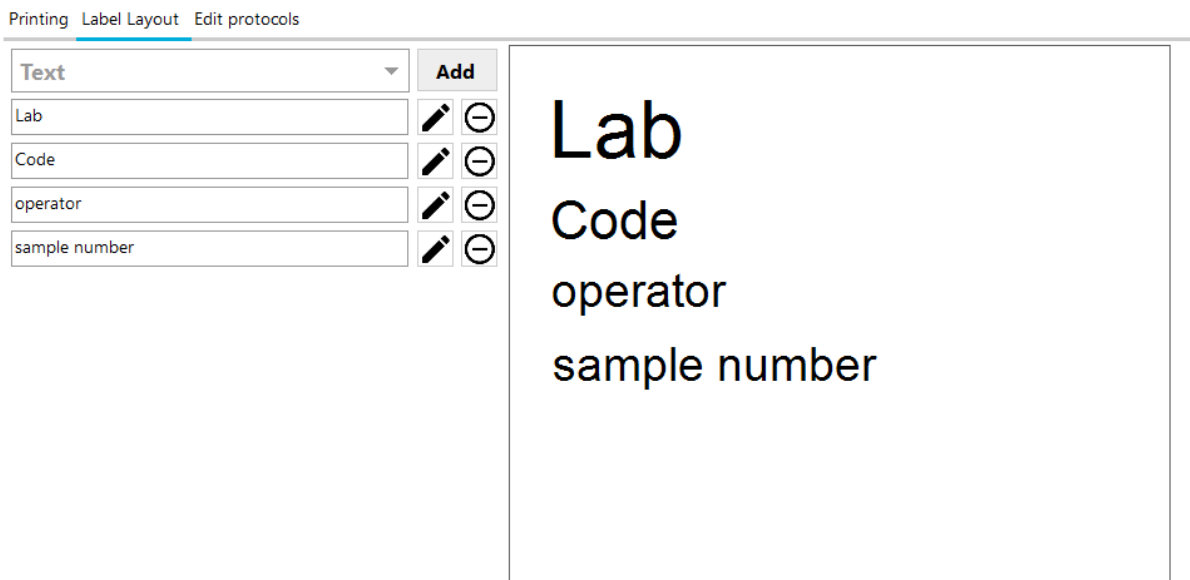
A barcode or 2D code scanner can be used in keyboard emulation mode to enable automatic filling of the label fields.

The process requires a specific formed input string, encoded into the barcode or 2D code. The string must be divided in several portions by a separator character, such as a comma (,) a dash (-) or another character (-). The scanner must be connected to the system running Slidebel Tools. Upon a successful reading, the input string will be split into different substrings and each of these will be addressed to the specific label fields.

In the example below, the datamatrix code contains the string “*New York-23849-Jack Doe*”

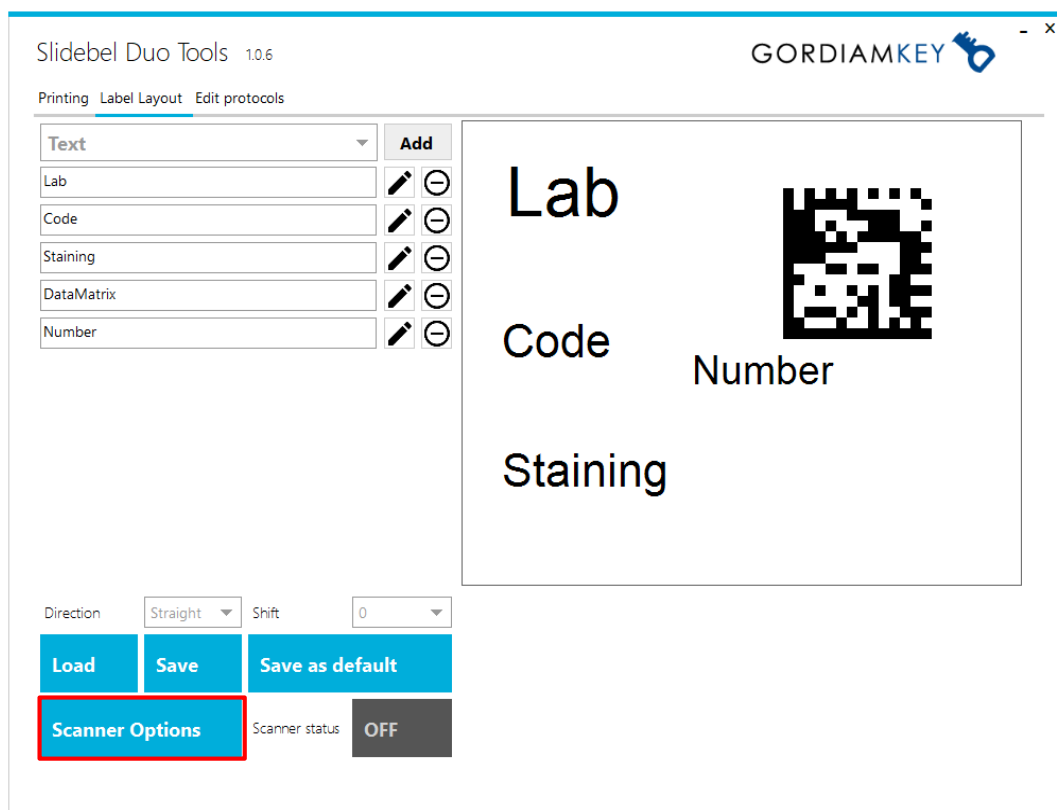


In the label layout below, “*New York*” must fill the field “**lab**”, “*23849*” must fill the field “**code**”, and “*jack Doe*” must fill the field “**operator**”.

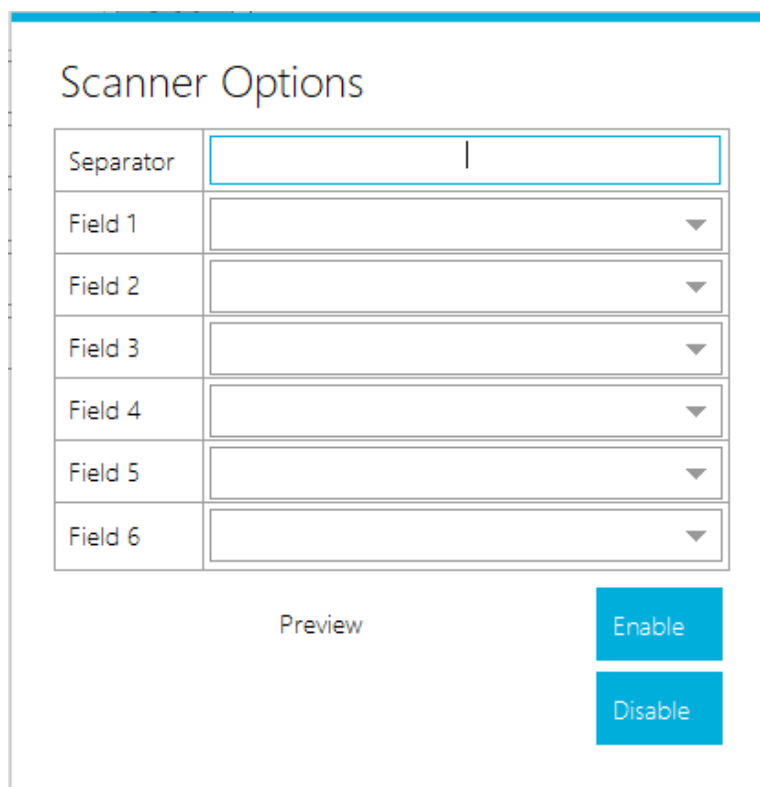


To activate the scanner mode, click the button “*Scanner Options*”:

3. Label Layout editor panel



A dialog box will open. The different substrings must be assigned to the appropriate label fields. A separator character must also be selected.



3. Label Layout editor panel

In this case, the separator is a dash (-) character. The first field will be set as “*lab*”, the second as “*code*” and the third as “*operator*”. A preview of the scanned code will be shown in the bottom of the window. Once all the fields are selected, click the button “**enable**” to activate the scanner mode.

Scanner Options

Separator	-
Field 1	Lab
Field 2	Code
Field 3	operator
Field 4	
Field 5	
Field 6	

Preview
Lab-Code-operator

Enable
Disable

The scanner status label will toggle to “ON”:

Direction Straight Shift 0

Load Save Save as default

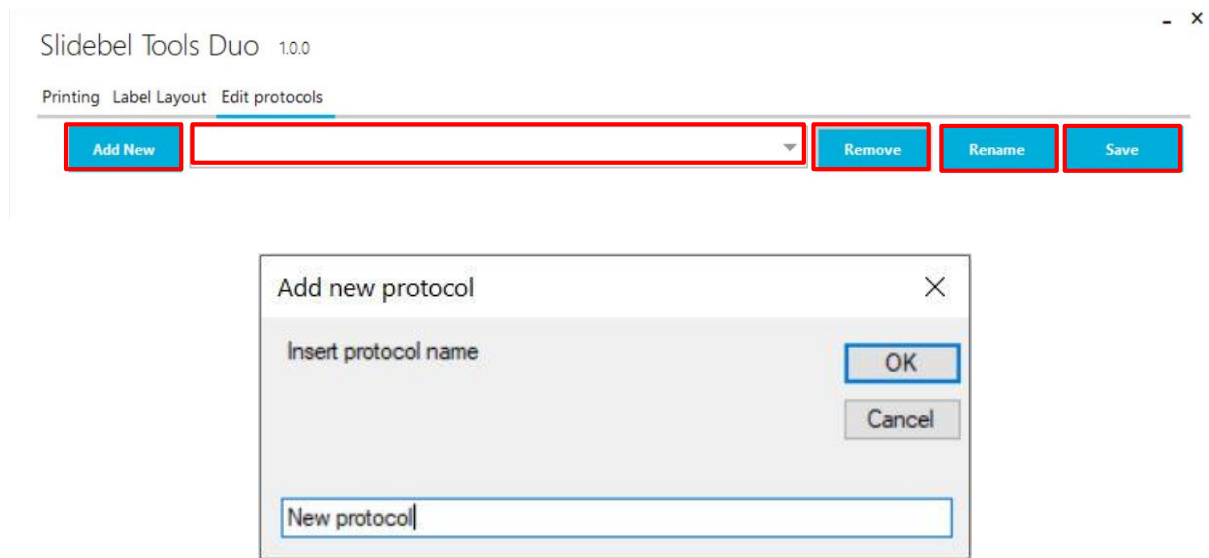
Scanner Options Scanner status ON

4. Protocols panel

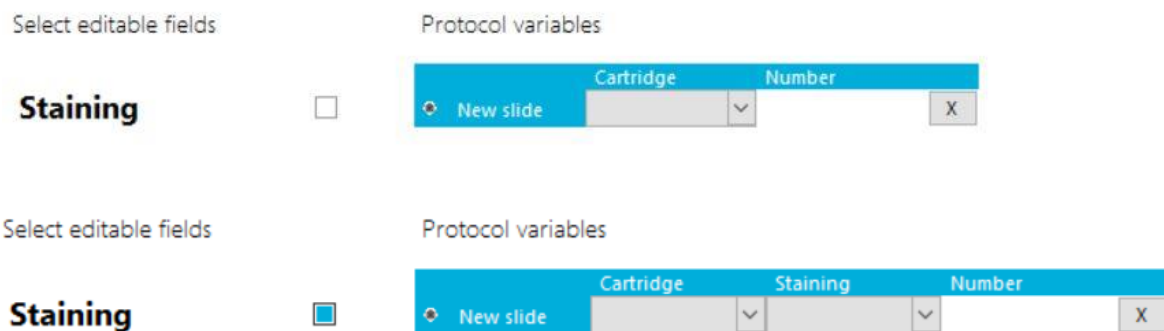
4 Protocols panel

The Edit protocols panel allows to create, modify and remove slide printing protocols.

A slide printing protocol is a list of slides to be printed, whose fields are partially or totally pre-defined. Printing protocols can be created in the tab “*Edit protocols*” by clicking the button “*Add New*”. This will generate a new protocol.



The “*Select editable fields*” option indicates which fields will be defined in the slide list. The rest of the fields will be open for edit in the printing form.



For each slide in the list, the loading side can be specified in the tab “*Cartridge*”

4. Protocols panel

Select editable fields

Staining



Protocol variables

	Cartridge	Staining	Number	
▶* New slide	Left			X
	Right			
	Left			
	Both			
	Manual			

Select editable fields

Staining



Protocol variables

	Cartridge	Staining	Number	
Slide 1	Left	ABPAS	6	X
▶ Slide 2	Right	HEX	7	X
▶* New slide				X

Once completed, the protocol can be saved. Saved printing protocols can be used in the printing form.

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