



**R**RANGEMASTER  
**S**YSTEMS

# LED scoreboard customization program User manual

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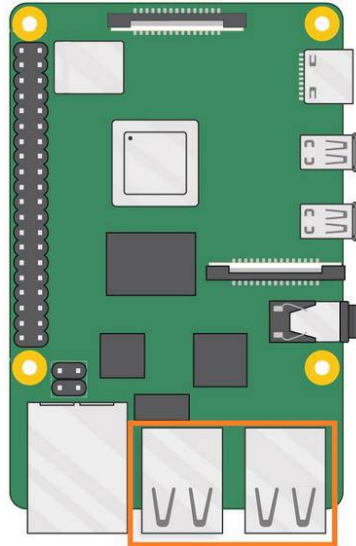
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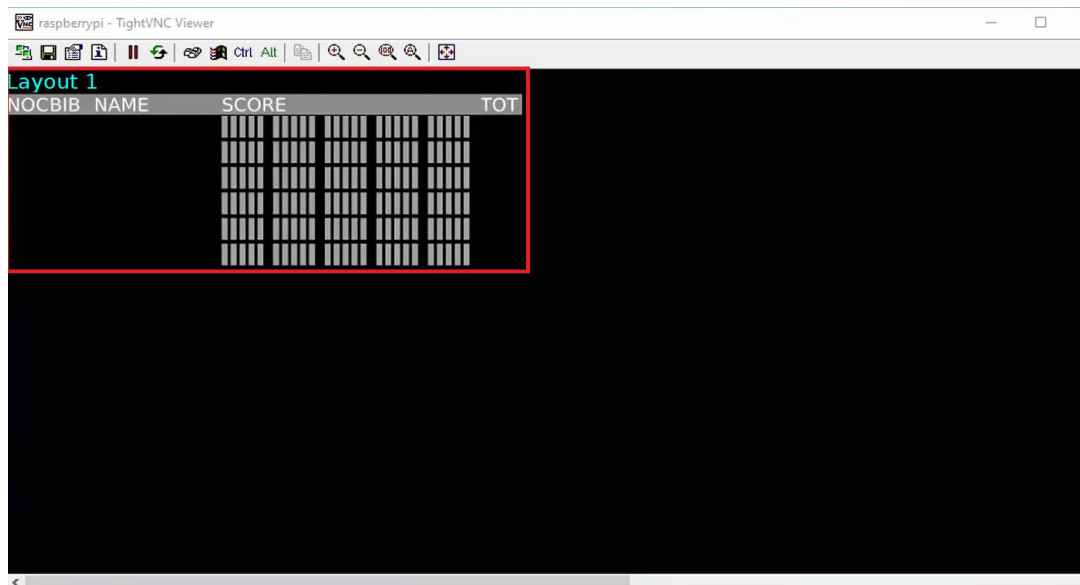
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### 1. SETTING

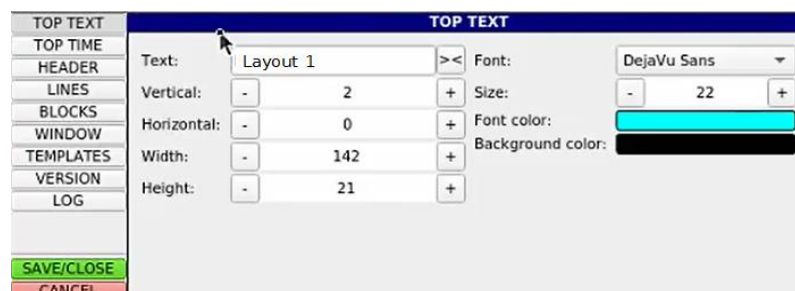
To set up the scoreboard use **TightVNC-Viewer** or connect a mouse to the mini computer on the layout (USB slots are shown inside the orange frame on the picture below):



To start setting up the scoreboard, double-click the scoreboard.



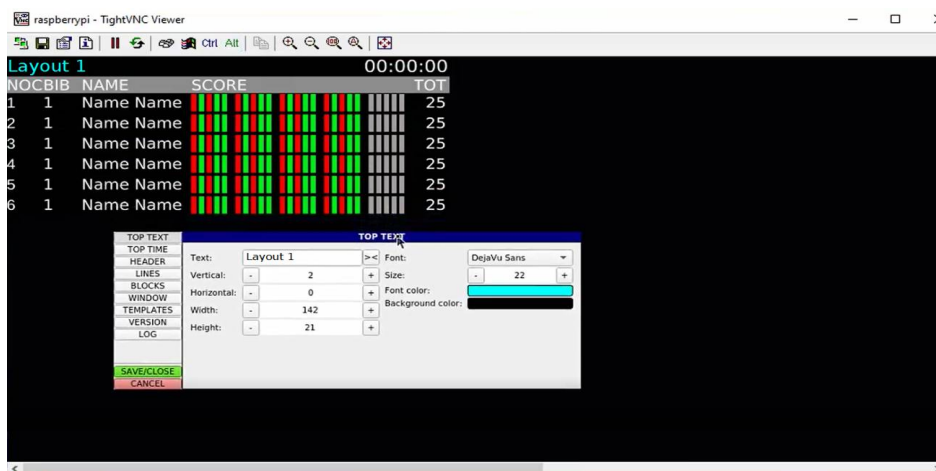
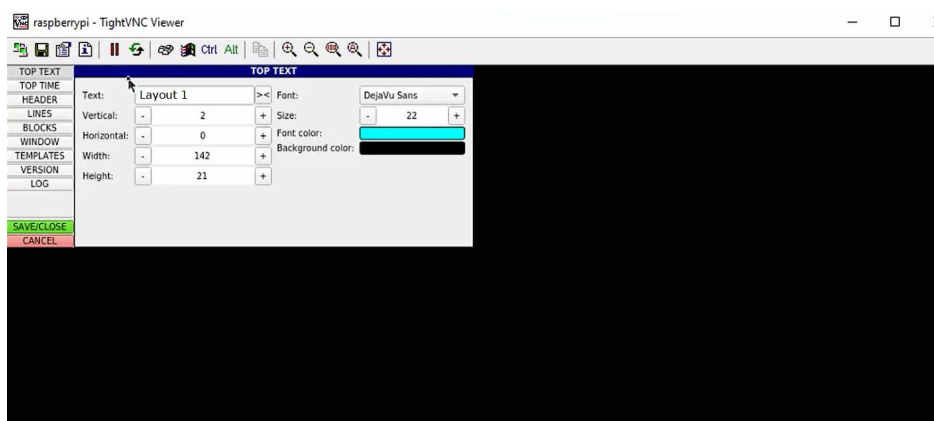
The following window will open:



You need to configure the following blocks in the column on the left:

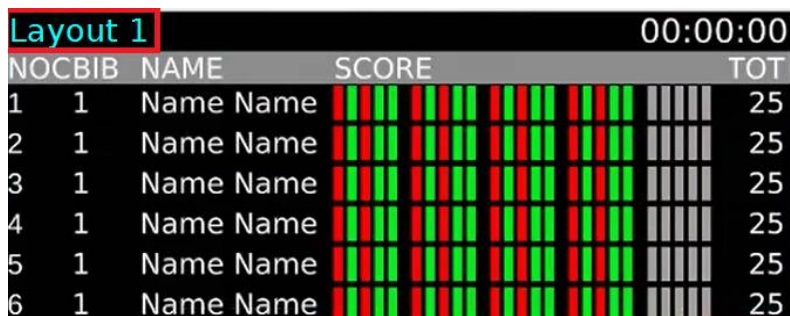
Name of the block	Description
<b>TOP TEXT</b>	The text on the top line of the scoreboard. You can show the name of the range ( <i>Range A</i> ), the name of the competition ( <i>World Cup</i> ), or leave it empty
<b>TOP TIME</b>	The right part of the top line on the scoreboard, showing the time (00:00:00).
<b>HEADER</b>	The second line is the header of the results table (NOC, BIB, NAME, SCORE, TOT).
<b>LINES</b>	Table content.
<b>BLOCKS</b>	Misses and hits shown in the column SCORE.

Hold the **Alt** button on the keyboard and drag configuration window with the left mouse button so that you can move it and see the virtual scoreboard window in the program. This is necessary in order to see all the changes made in configuration window.



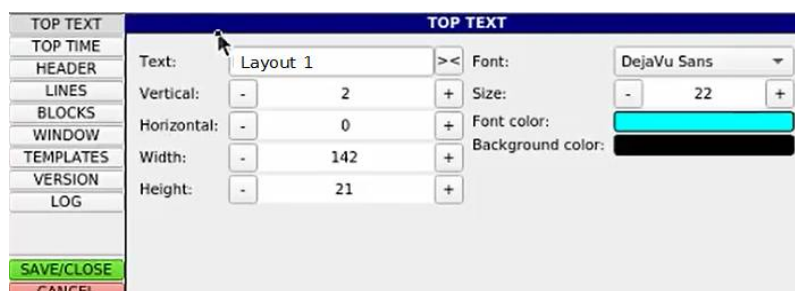
## 1.1 TOP TEXT

In this you can customize the appearance and size of the text of the top row of the scoreboard. You can show the name of the range (*Range A*), the name of the competition (*World Cup*) or leave it empty



Layout 1				00:00:00			
NOC	BIB	NAME	SCORE	TOT			
1	1	Name Name	[LED display]	25			
2	1	Name Name	[LED display]	25			
3	1	Name Name	[LED display]	25			
4	1	Name Name	[LED display]	25			
5	1	Name Name	[LED display]	25			
6	1	Name Name	[LED display]	25			

To do this, you must fill in and / or edit the following fields:

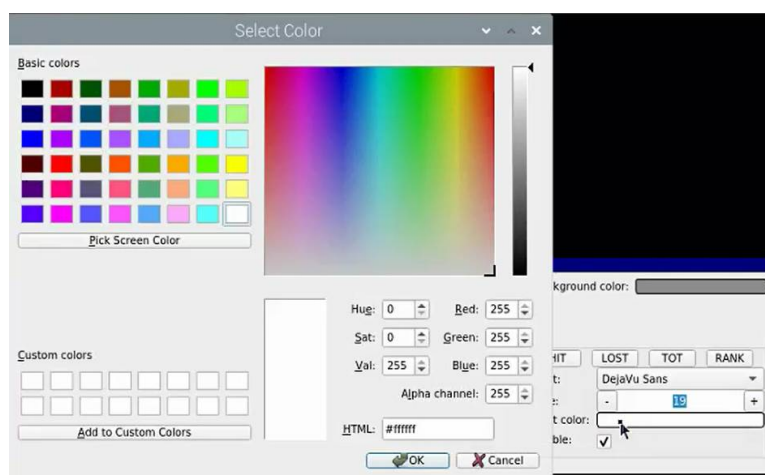



TOP TEXT	
Text:	Layout 1
Vertical:	- 2 +
Horizontal:	- 0 +
Width:	- 142 +
Height:	- 21 +
Font:	DejaVu Sans
Size:	- 22 +
Font color:	[Color selection]
Background color:	[Color selection]

SAVE/CLOSE CANCEL

Name of the field	Description
<b>Text</b>	Text shown in the top line of the scoreboard
<b>Vertical</b>	Setting vertical position of the text
<b>Horizontal</b>	Setting horizontal position of the text
<b>Width</b>	Setting column width
<b>Height</b>	Setting column height
<b>Font</b>	Setting text font
<b>Size</b>	Setting text size
<b>Font color</b>	Setting font color
<b>Background color</b>	Setting background color

























To change the color, click the field with the color, and select the desired color from the palette that opens and click **OK**.



To enter values use  and .

## 1.2 TOP TIME

In this section you can set the time that will be displayed in the upper right corner of the scoreboard during the competition.

Layout 1							00:00:00
NOC	BIB	NAME	SCORE				TOT
1	1	Name Name					25
2	1	Name Name					25
3	1	Name Name					25
4	1	Name Name					25
5	1	Name Name					25
6	1	Name Name					25

To edit, click **TOP TIME** on the left side of the window.

TOP TEXT	TOP TIME			
TOP TIME	Vertical:	-	2	+
HEADER	Horizontal:	-	418	+
LINES	Width:	-	102	+
BLOCKS	Height:	-	21	+
WINDOW	Font:	DejaVu Sans		
TEMPLATES	Size:	22		
VERSION	Font color:			
LOG	Background color:			
<div>SAVE/CLOSE</div> <div>CANCEL</div>				

You will see the window where you need to configure the following fields:

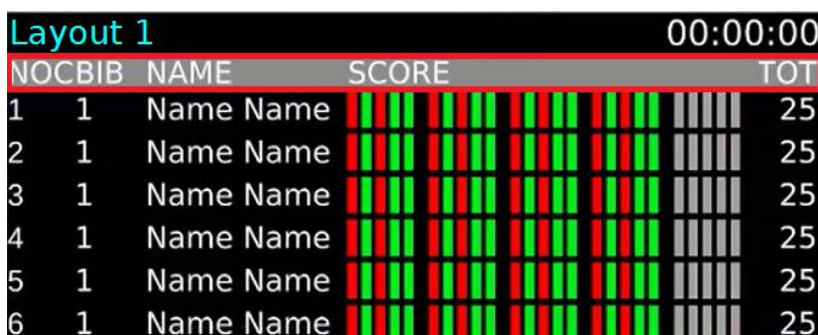
Name of the field	Description
<b>Vertical</b>	Setting vertical position of the text
<b>Horizontal</b>	Setting horizontal position of the text
<b>Width</b>	Setting column width
<b>Height</b>	Setting column height
<b>Font</b>	Setting text font
<b>Size</b>	Setting text size
<b>Font color</b>	Setting font color
<b>Background color</b>	Setting background color

To change the color, click the field with the color, and select the color from the palette that opens and click **OK**.

To enter values use  and .

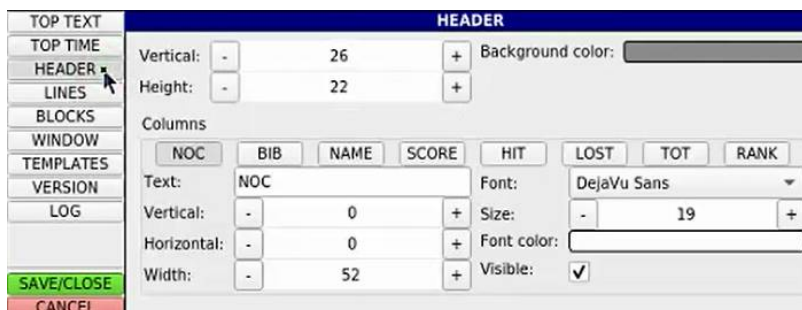
### 1.3 HEADER

Here you can edit the header of the results table.



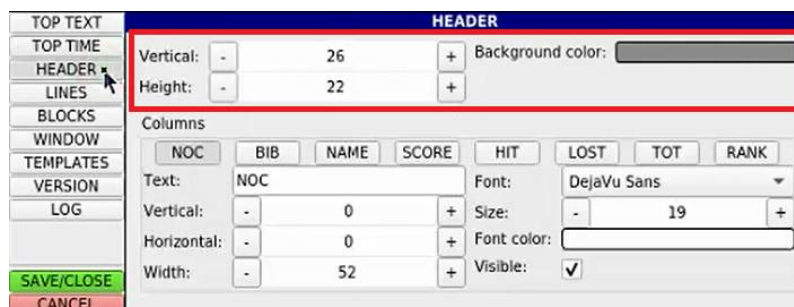
The screenshot shows a digital LED scoreboard layout. At the top left, it says "Layout 1" in green. At the top right, it shows a time "00:00:00". Below this is a table header with columns: NOC, BIB, NAME, SCORE, and TOT. The table contains six rows of data, each with the value "1" in the NOC and BIB columns, "Name Name" in the NAME column, and "25" in the TOT column. The SCORE column is filled with a pattern of red and green vertical bars.

To edit, click **HEADER** on the left side of the window.





The screenshot shows the "HEADER" configuration window. On the left is a sidebar with buttons: TOP TEXT, TOP TIME, HEADER (selected), LINES, BLOCKS, WINDOW, TEMPLATES, VERSION, LOG, SAVE/CLOSE, and CANCEL. The main area is titled "HEADER" and contains settings for the header row. It includes fields for Vertical (26), Height (22), Background color (a color picker), and Columns (NOC, BIB, NAME, SCORE, HIT, LOST, TOT, RANK). Below these are settings for the "NOC" column: Text (NOC), Font (DejaVu Sans), Size (19), Vertical (0), Horizontal (0), Width (52), and Visible (checked).

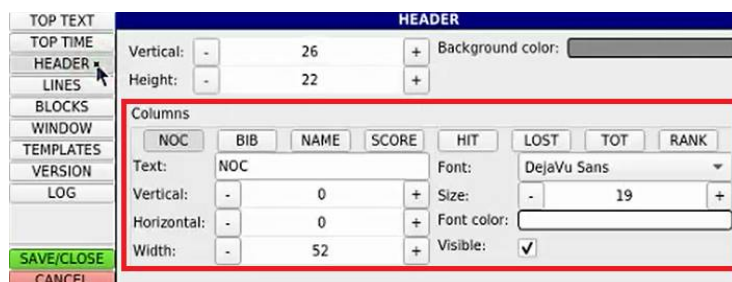
Here you can make settings for the entire row and for each column in the row separately.  
The top three fields - **Vertical**, **Height** and **Background color** - are general settings for the entire row.



Below are the settings for each column: NOC, BIB, NAME, SCORE, HIT, LOST, TOT, RANK.

To change the color, click the field with the color, and select the color from the palette that opens and click **OK**.

To enter values use  and .



Here you can also configure the following:

Name of the field	Description
<b>Text</b>	Text shown in the top line of the scoreboard
<b>Vertical</b>	Setting vertical position of the text
<b>Horizontal</b>	Setting horizontal position of the text
<b>Width</b>	Setting column width
<b>Font</b>	Setting text font
<b>Size</b>	Setting text size
<b>Font color</b>	Setting font color

To change the color, click the field with the color, and select the color from the palette that opens and click **OK**.

To enter values use  and .

**NOTE:** Vertical, Horizontal and Width fields apply to the entire column, including the values in the column content.

It is also possible to hide the column when not in use. To do this, uncheck the **Visible** box. To display the column on the scoreboard, check the **Visible** box back.

**Layout 1** 00:00:00

	BIB	NAME	SCORE	TOT
↑	1	Name Name		25
	1	Name Name		25
	1	Name Name		25
	1	Name Name		25
	1	Name Name		25
	1	Name Name		25

Layout 100:00:00

NOC	BIB	NAME	SCORE	TOT
1	1	Name Name	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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If the column name does not completely fit into the specified width, you can increase the column width (Width) or decrease the font size (Size).

Layout 100:00:00

NOC	BIB	NAME	SCORE	TOT
1	1	Name Name	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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## 1.4 LINES

Here you can customize the appearance of lines and text in the result table.

Layout 1										00:00:00
NOC	BIB	NAME	SCORE						TOT	
1	1	Name Name								25
2	1	Name Name								25
3	1	Name Name								25
4	1	Name Name								25
5	1	Name Name								25
6	1	Name Name								25

To edit, click **LINES** on the left side of the window.

TOP TEXT	<b>LINES</b>			
TOP TIME	Vertical: - 48 +	Spacing: - 2 +		
HEADER	Height: - 25 +	Background color: <span style="background-color: black; color: black;">          </span>		
<b>LINES</b>	Columns			
BLOCKS	<input type="button" value="NOC"/> <input type="button" value="BIB"/> <input type="button" value="NAME"/> <input type="button" value="HIT"/> <input type="button" value="LOST"/> <input type="button" value="TOT"/> <input type="button" value="RANK"/>			
WINDOW	Font: Liberation Sans			
TEMPLATES	Font color: <span style="background-color: black; color: black;">          </span>			
VERSION	Size: - 19 +			
LOG				
<span style="background-color: green; color: black;">SAVE/CLOSE</span>				
<span style="background-color: red; color: black;">CANCEL</span>				

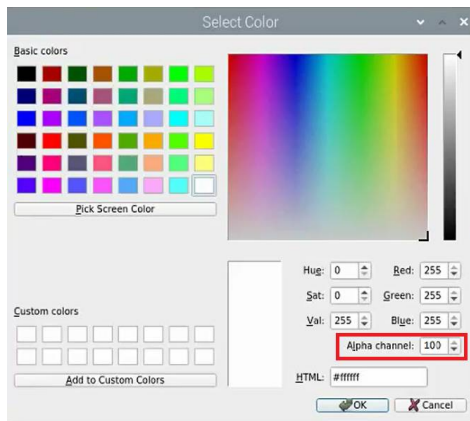
The top four fields - **Vertical** (the position of the lines vertically), **Height** (the height of the row), **Spacing** (the distance between the rows in the table), **Background color** (the background color of the row) - are general settings for the entire row.

TOP TEXT	<b>LINES</b>			
TOP TIME	Vertical: - 48 +	Spacing: - 2 +		
HEADER	Height: - 25 +	Background color: <span style="background-color: black; color: black;">          </span>		
<b>LINES</b>	Columns			
BLOCKS	<input type="button" value="NOC"/> <input type="button" value="BIB"/> <input type="button" value="NAME"/> <input type="button" value="HIT"/> <input type="button" value="LOST"/> <input type="button" value="TOT"/> <input type="button" value="RANK"/>			
WINDOW	Font: Liberation Sans			
TEMPLATES	Font color: <span style="background-color: black; color: black;">          </span>			
VERSION	Size: - 19 +			
LOG				
<span style="background-color: green; color: black;">SAVE/CLOSE</span>				
<span style="background-color: red; color: black;">CANCEL</span>				

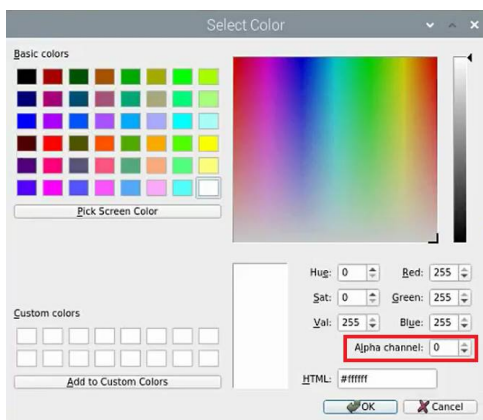
You can change the position of the lines, the height, and also set the background color of the line.

NOC	BIB	NAME	SCORE						TOT	
1	1	Name Name								25
2	1	Name Name								25
3	1	Name Name								25
4	1	Name Name								25
5	1	Name Name								25
6	1	Name Name								25

To make the background of the line transparent, click the **Background color** field and set the **Alpha channel** to "0". Depending on the value (0... 225), you can set the transparency for the background of the line.




NOC	BIB	NAME	SCORE	TOT
1	1	Name Name		25
2	1	Name Name		25
3	1	Name Name		25
4	1	Name Name		25
5	1	Name Name		25
6	1	Name Name		25

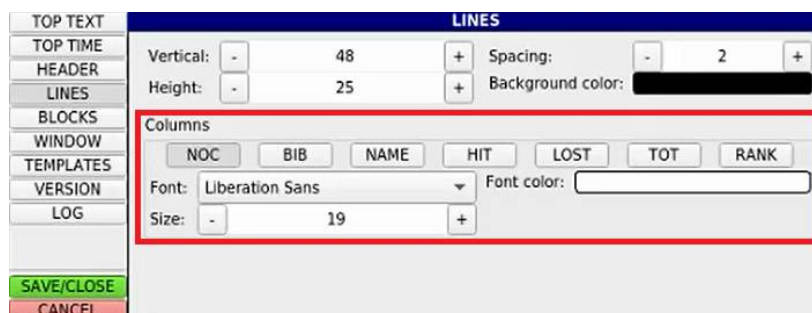


NOC	BIB	NAME	SCORE	TOT
1	1	Name Name		25
2	1	Name Name		25
3	1	Name Name		25
4	1	Name Name		25
5	1	Name Name		25
6	1	Name Name		25

Below are the settings for the text in each column: NOC, BIB, NAME, HIT, LOST, TOT, RANK.

To change the color, click the field with the color, and select the color from the palette that opens and click **OK**.







To enter values use  and .



Here you can configure:







Name of the field	Description
Font	Setting text font
Size	Setting text size
Font color	Setting font color

To enter values use  and 




Layout 1				00:00:00									
NOC	BIB	NAME	SCORE	DT									
1	1	Name Name		25									
2	1	Name Name		25									
3	1	Name Name		25									
4	1	Name Name		25									
5	1	Name Name		25									
6	1	Name Name		25									

## 1.5 BLOCKS

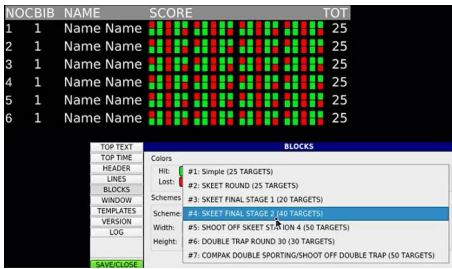
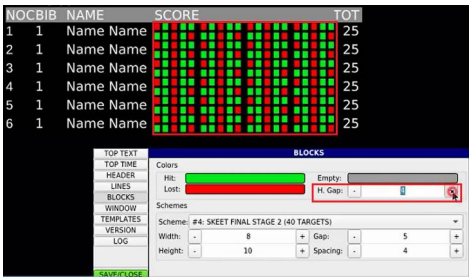
Here you can customize the blocks (hits, misses, upcoming shots) in the contents of the SCORE column.

Layout 1				00:00:00									
NOC	BIB	NAME	SCORE	TOT									
1	1	Name Name		25									
2	1	Name Name		25									
3	1	Name Name		25									
4	1	Name Name		25									
5	1	Name Name		25									
6	1	Name Name		25									



To edit, click **BLOCKS** on the left side of the window.

TOP TEXT	<b>BLOCKS</b>			
TOP TIME	Colors			
HEADER	Hit: 	Empty: 		
LINES	Lost: 	H. Gap: - 2 +		
BLOCKS	Schemes			
WINDOW	Scheme: #1: Simple (25 TARGETS)			
TEMPLATES	Width: - 6 +	Gap: - 10 +		
VERSION	Height: - 23 +	Spacing: - 3 +		
LOG				
SAVE/CLOSE				
CANCEL				

Here you can set the following values:

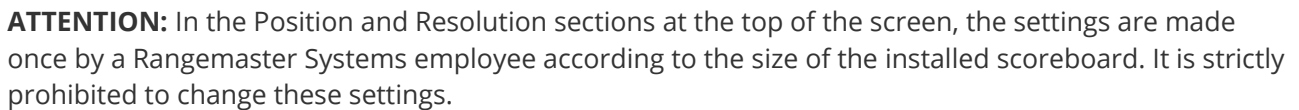
Name of the field	Description
<b>Hit</b>	Setting the color of the block when hitting the target
<b>Lost</b>	Setting the color of the block when missing the target
<b>Empty</b>	Setting the color of the blocks of shots that have to be fired
<b>Scheme</b>	<p>Setting the shooting scheme. The type, number and arrangement of blocks in the SCORE column changes depending on the selected shooting scheme.</p>  <p>For schemes with 30 or more targets you can adjust H.Gap - the vertical distance between blocks in a group, since the blocks are arranged in a group in two rows (e.g. for scheme # 4: SKEET FINAL STAGE 2 (40 TARGETS)).</p> 
<b>Width</b>	Setting block width
<b>Height</b>	Setting block height
<b>Gap</b>	Setting distance between groups of blocks
<b>Spacing</b>	Setting horizontal distance between blocks within a group

To change the color, click the field with the color, and select the color from the palette that opens and click **OK**.

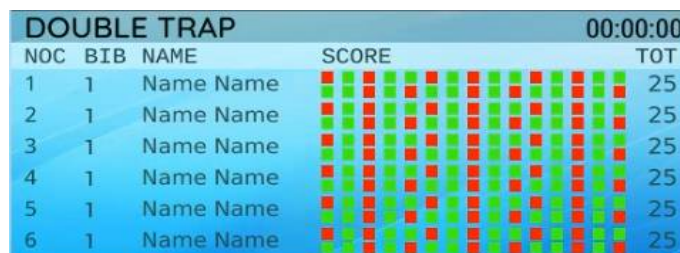
To enter values use  and 

Here you can customize the background or image for the entire scoreboard.

To edit, click **WINDOW** on the left side of the window.

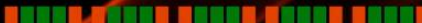













At the bottom of the settings screen, in the **Background** section, you can change the background color (COLOR) or set the image (IMAGE) to the background of the scoreboard.



SKEET ROUND					00:00:00
NOC	BIB	NAME	SCORE	TOTAL	
1	1	Name Name		25	
2	1	Name Name		25	
3	1	Name Name		25	
4	1	Name Name		25	
5	1	Name Name		25	
6	1	Name Name		25	

LAYOUT A SKEET					00:00:00
NOC	BIB	NAME	SCORE	TOT	
1	1	Name Name		25	
2	1	Name Name		25	
3	1	Name Name		25	
4	1	Name Name		25	
5	1	Name Name		25	
6	1	Name Name		25	

TRAP					00:00:00
NOC	BIB	NAME	SCORE	TOT	
1	1	Name Name		25	
2	1	Name Name		25	
3	1	Name Name		25	
4	1	Name Name		25	
5	1	Name Name		25	
6	1	Name Name		25	

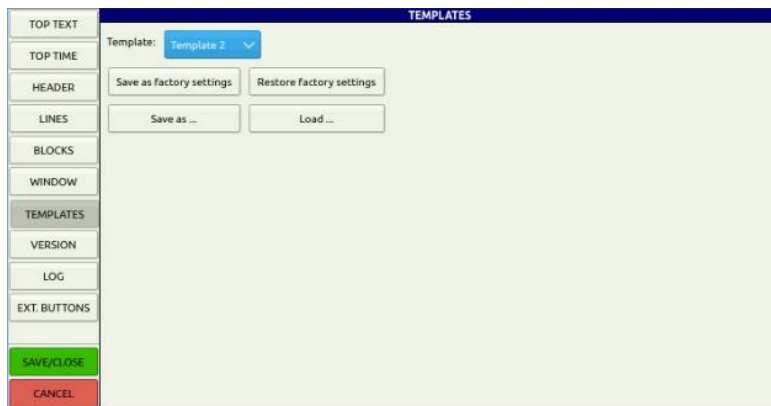
DOUBLE TRAP					00:00:00
NOC	BIB	NAME	SCORE	TOT	
1	1	Name Name		25	
2	1	Name Name		25	
3	1	Name Name		25	
4	1	Name Name		25	
5	1	Name Name		25	
6	1	Name Name		25	

## 1.7 TEMPLATES

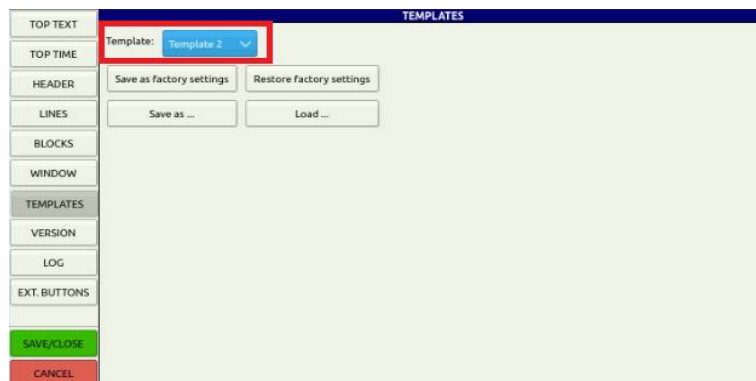
Here you can choose a template from preset templates.

To edit, click **TEMPLATES** on the left side of the window.

You will see the following window:



From the drop-down list of templates you can select a template already set with color, line size, font, etc.



**ATTENTION:** The buttons below ("Save as factory settings", "Restore factory settings", "Save as ...", "Load ...") are intended for use by Rangemaster Systems employees only. **Using them is strictly prohibited!**

## 1.8 VERSION

This section is intended for use by Rangemaster Systems employees only. **It is strictly prohibited to make changes in it!**

## 1.9 LOG

This section is intended for use by Rangemaster Systems employees only.

**It is strictly prohibited to make changes in it!**

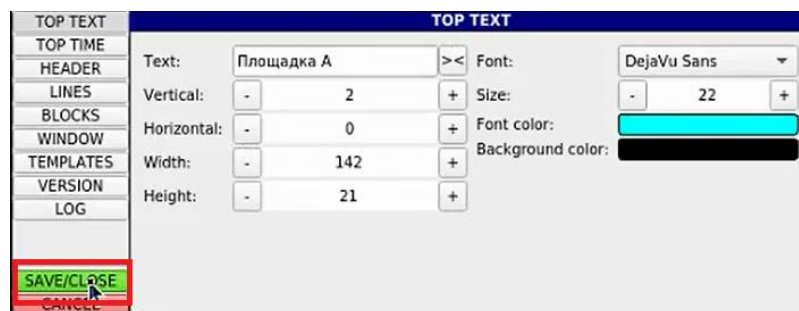
## 1.10 EXT. BUTTONS

This section is intended for use by Rangemaster Systems employees only.


**It is strictly prohibited to make changes in it!**

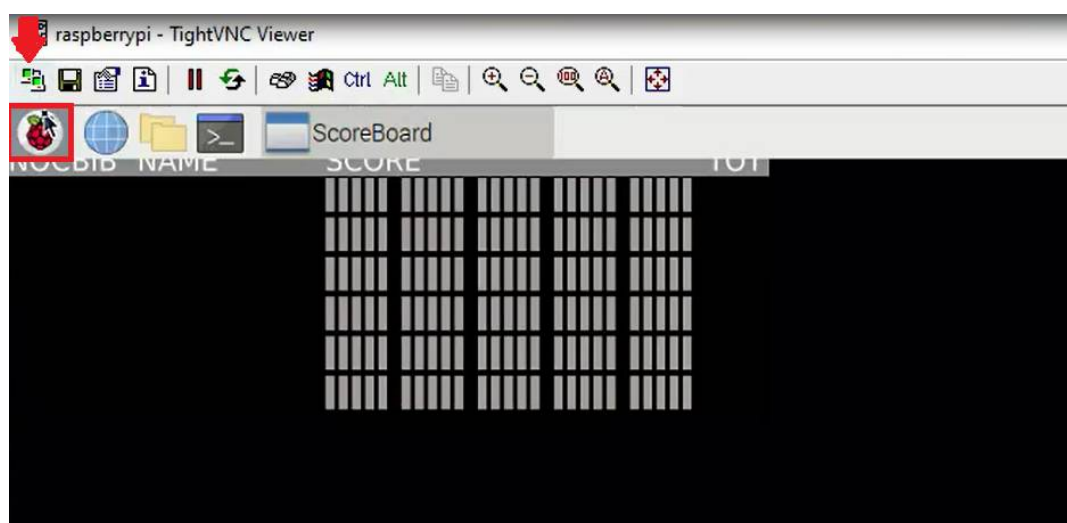
## 1.11 SAVE/CLOSE SETTINGS

To save settings, click the **SAVE / CLOSE** button in the lower left corner of the window.

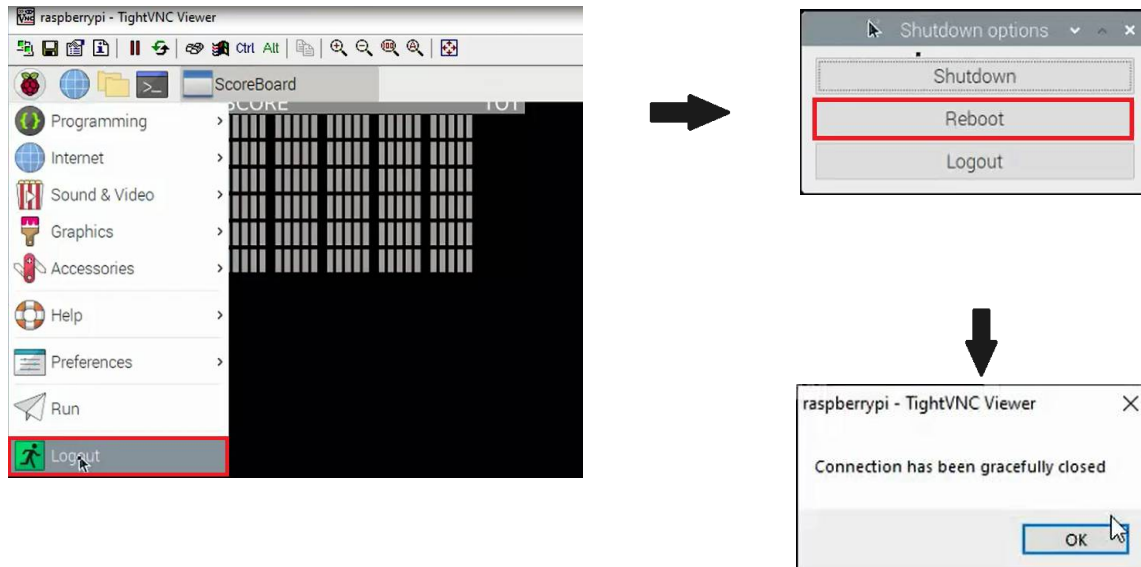


Restart the program to activate the changes.

To do this, point to the top of the window and click the icon in  the drop-down menu.



Click **Logout** in the drop-down list. In the window that opens, click **Reboot**. Then an information window appears, where you need to click **OK** button.



The program will restart, launching the scoreboard with the settings you have set.

In case you do not want to save the settings set in the program, click the **CANCEL** button in the lower left corner of the window.

