

User Guide

BASIC PLAN



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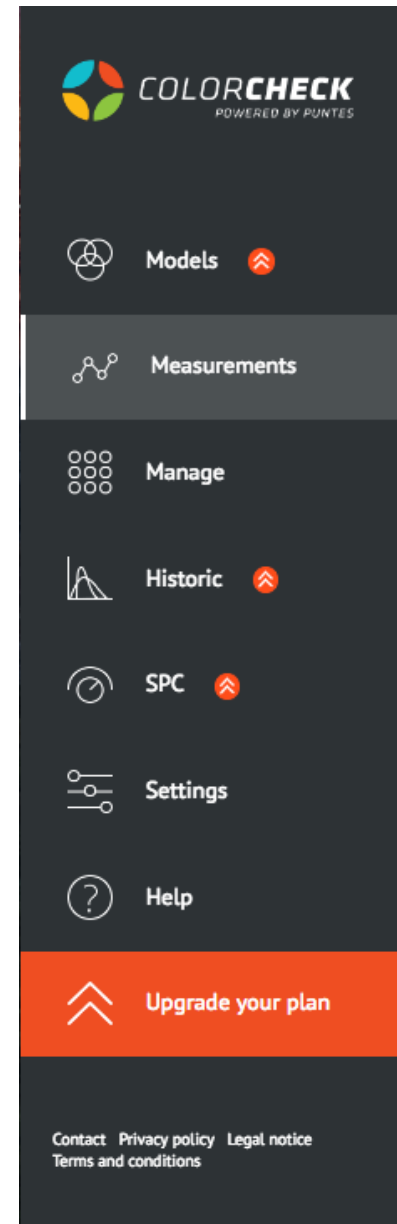
BASIC PLAN

This plan allows you to connect a computer and perform basic measurements completely free of charge. Search Pantones, measure patches strip from a predefined library of strips, create graphical representations and compare with ISO standards.

When you access to Colorcheck, by default, its home page is the Measurements page.

As we can see in the main menu, this plan dispose of the options 'Measurements', 'Manage', 'Settings' and 'Help'.

For the rest of utilities, indicated with the orange arrow, it is necessary to upgrade the used plan, changing it into advanced, brand...

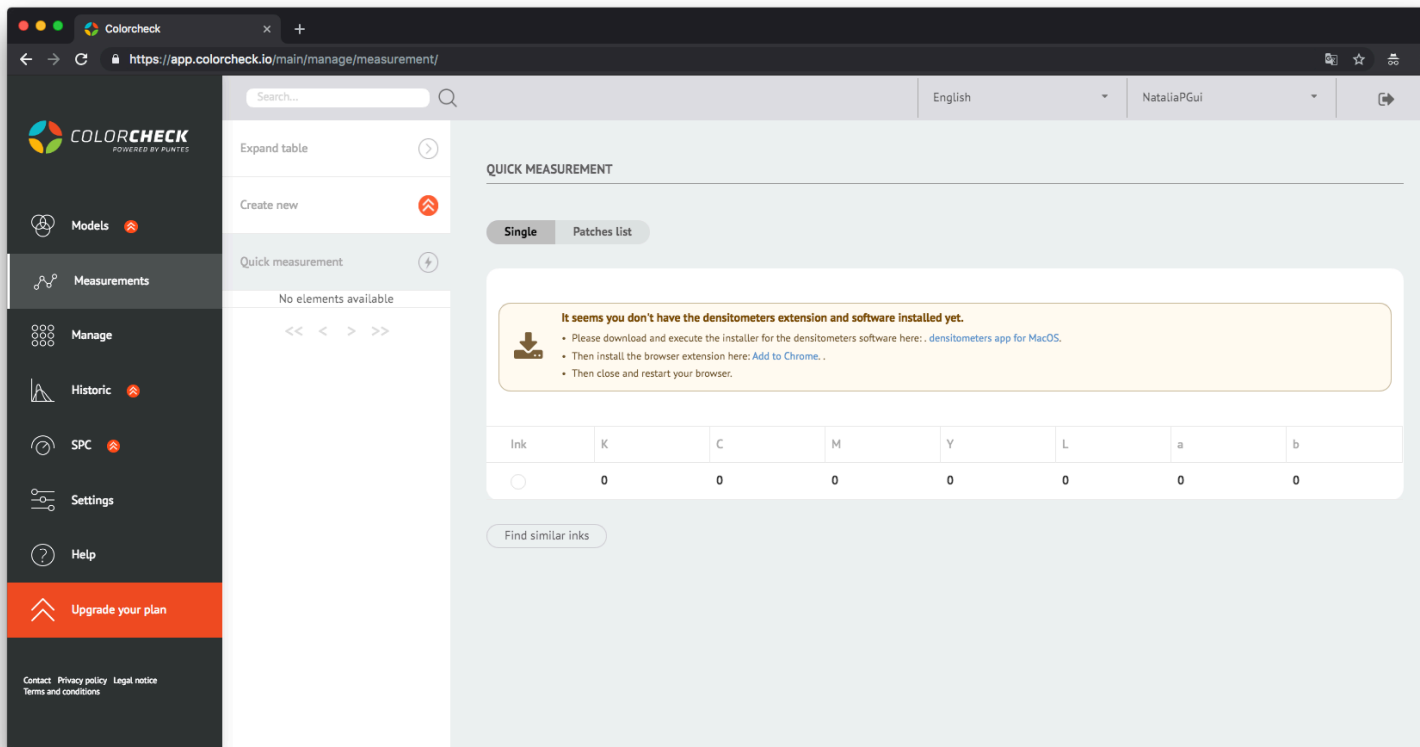


MEASUREMENTS

The option available in this plan consists in making a 'Quick Measurement'. Inside this option we have two possibilities:

The first one, make a **SINGLE MEASUREMENT**

This type is used in order that, when measuring a color, Colorcheck gives you a list of the Pantones that most match with this color according to ΔE .

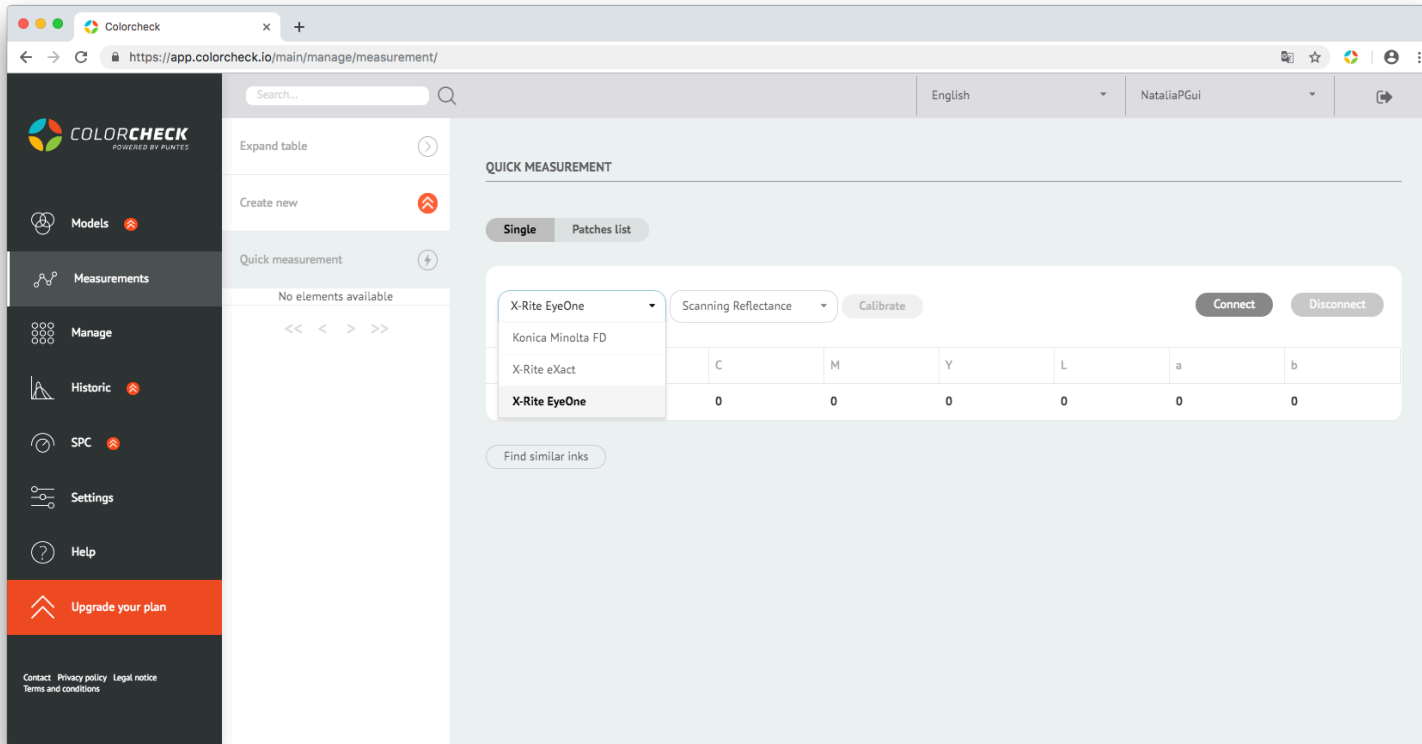


NOTE:

If it's the first time in Colorcheck, it asks you to install the densitometers extension and software. You only need to follow the instructions that appear in the cream-colored window.

Once the densitometers extension and software are installed, we will connect the measuring device.

- 1º We select the measuring device that we are going to use



The screenshot shows the Colorcheck web application interface. The browser address bar displays `https://app.colorcheck.io/main/manage/measurement/`. The page features a dark sidebar on the left with navigation options: Models, Measurements, Manage, Historic, SPC, Settings, Help, and Upgrade your plan. The main content area is titled 'QUICK MEASUREMENT' and includes a 'Single' tab and a 'Patches List' tab. A 'Calibrate' button is visible. Below this, a table lists available devices and their corresponding color values (C, M, Y, L, a, b).

Device	C	M	Y	L	a	b
X-Rite EyeOne	0	0	0	0	0	0
Konica Minolta FD						
X-Rite eXact						
X-Rite EyeOne	0	0	0	0	0	0

2° We select the measurement method:

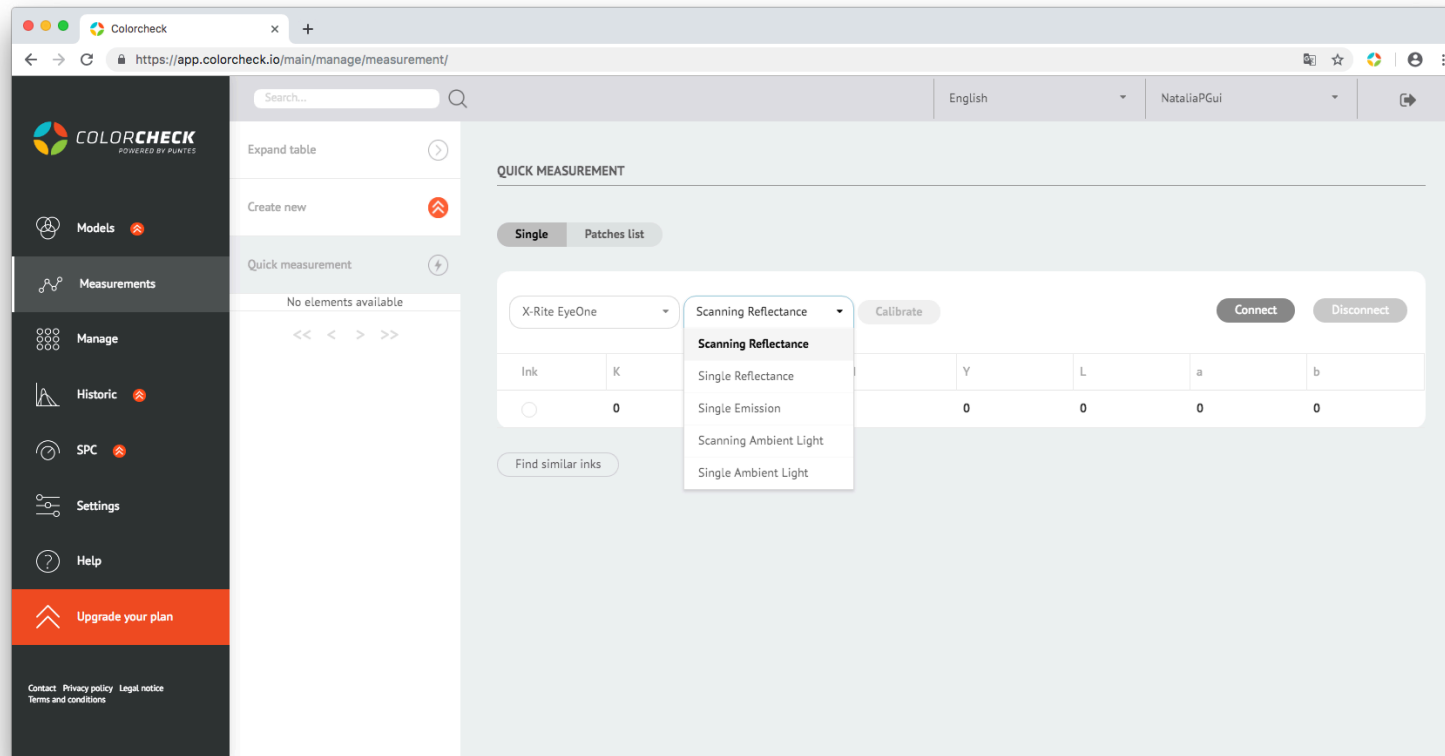
- Scanning Reflectance (scanning mode)
- Single Reflectance (patch by patch)

(These two options are for measuring prints)

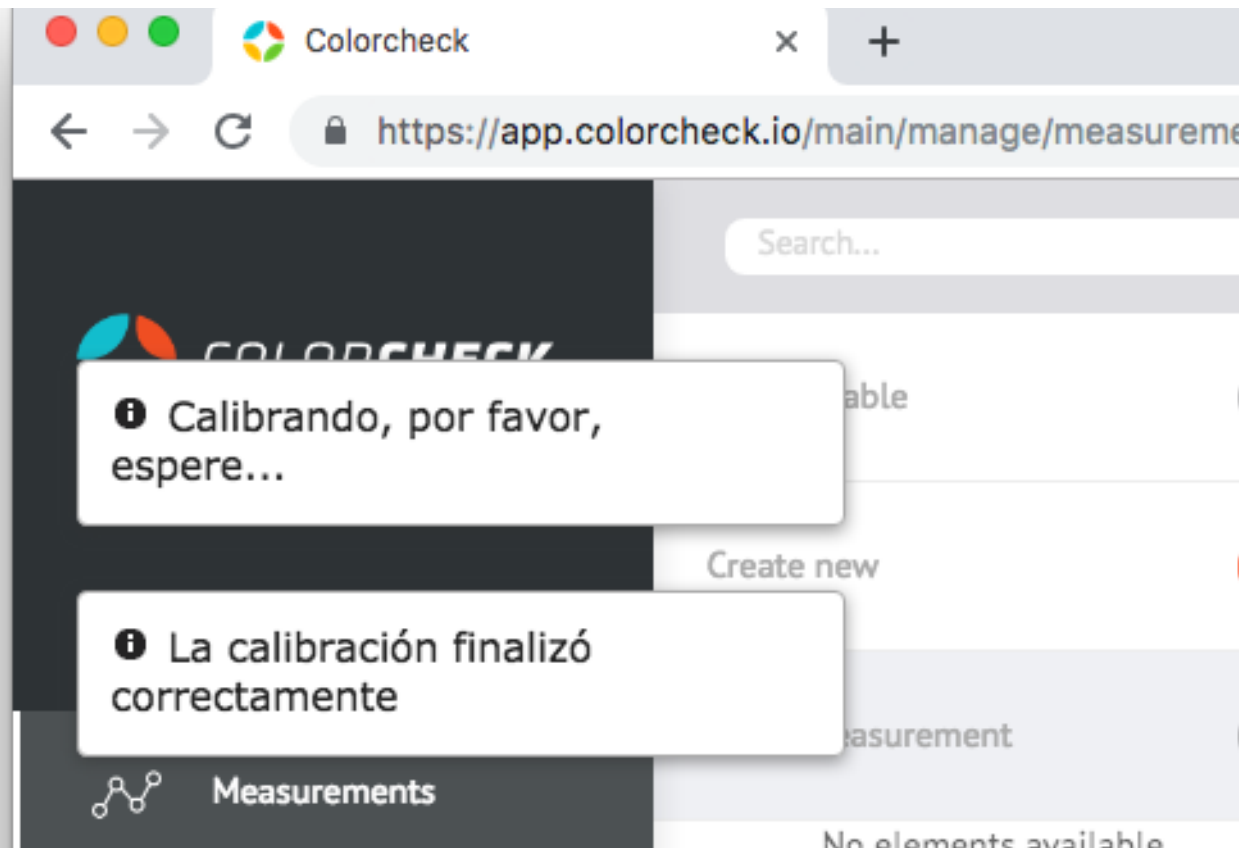
- Single Emission
- Scanning Ambient Light
- Single Ambient Light

(To measure screens) for now they aren't available

In this case we should select 'SINGLE REFLECTANCE'



- 3° Once selected the device and the measurement mode, 'CONNECT' and 'CALIBRATE'



When 'The calibration finished correctly' appears in the upper left part of the screen, you can take the measurement.

This is what appears once the measurement is made.

The composition of the color that has been measured in CMYK and LAB, and a list of the most similar Pantones to the color that has been measured, ordered from lower to higher Delta E and their respective LAB compositions.

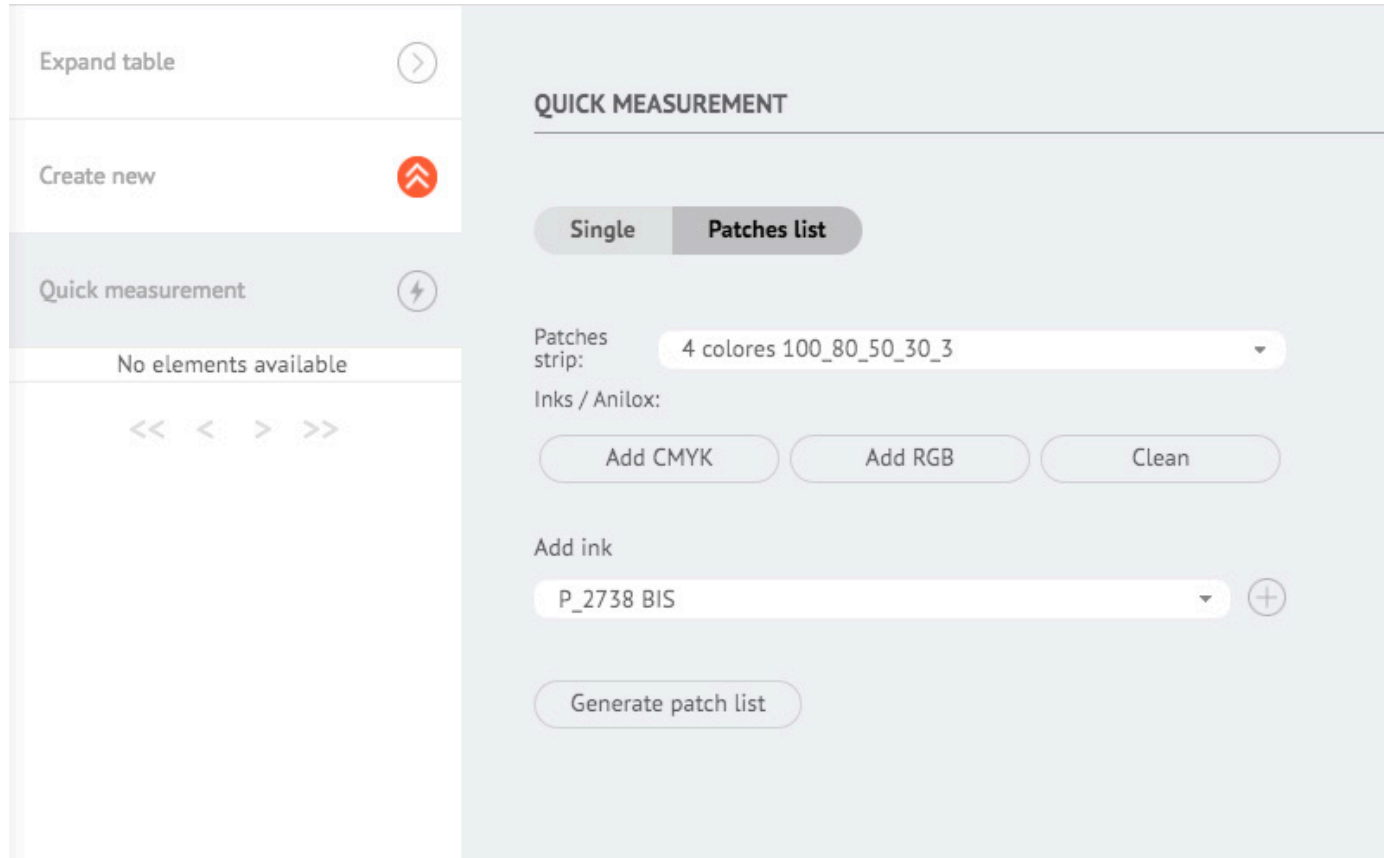
The screenshot displays the Colorcheck web application interface. The browser address bar shows the URL <https://app.colorcheck.io/main/manage/measurement/>. The interface includes a sidebar with navigation options: Models, Measurements, Manage, Historic, SPC, Settings, Help, and Upgrade your plan. The main content area is titled "QUICK MEASUREMENT" and features a "Single" tab. It includes a control panel with "X-Rite EyeOne" and "Scanning Reflectance" dropdowns, a "Calibrate" button, and "Connect" and "Disconnect" buttons. Below this is a table showing the measured color's CMYK and LAB values:

Ink	K	C	M	Y	L	a	b
	0.15	0.11	0.18	0.1	86.59	10.78	-9.28

A "Find similar inks" button is located below the measurement table. Underneath, a section titled "Similar inks found:" contains a table listing the most similar Pantone colors:

Ink	Name	ΔE_{00}	L	a	b	ΔL	Δa	Δb
	P_2085	1.79	84.44	10.48	-10.7	-2.15	-0.3	-1.42
	P_531	3.13	83.45	13.23	-12.09	-3.14	2.45	-2.81
	P_7436	3.33	89.25	9.5	-5.28	2.66	-1.28	4.0
	P_670	3.66	87.05	10.89	-4.18	0.46	0.11	5.1

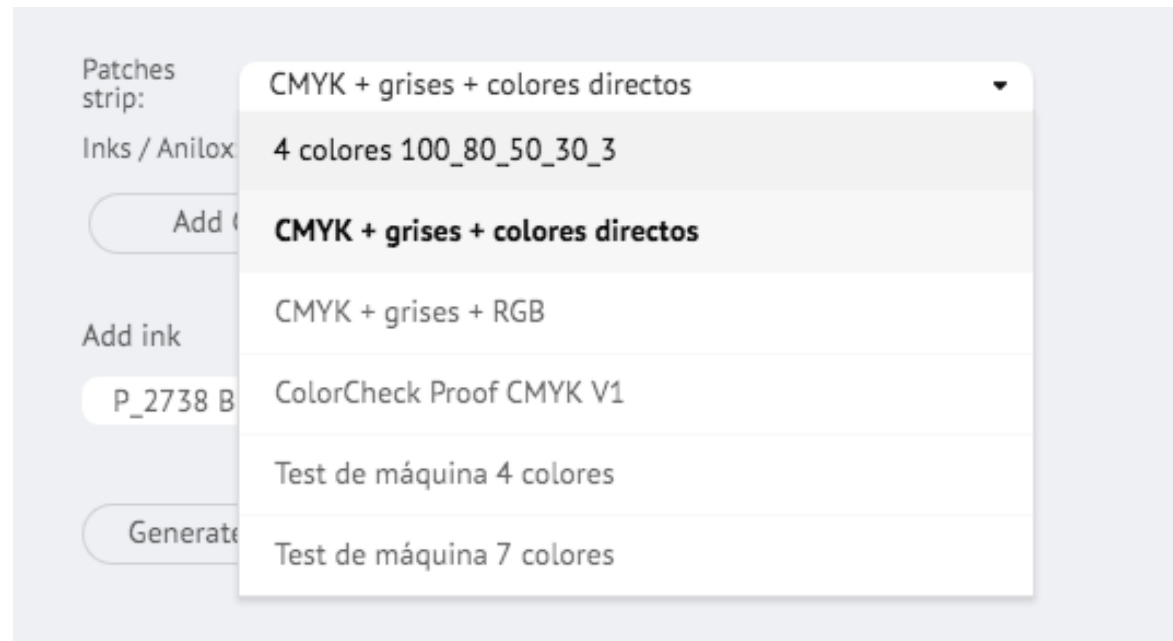
The second alternative in the quick measurement is to measure a **PATCHES LIST**.



The screenshot displays the 'QUICK MEASUREMENT' interface. On the left, a sidebar contains three menu items: 'Expand table' with a right arrow icon, 'Create new' with a red double-up arrow icon, and 'Quick measurement' with a lightning bolt icon. Below these is a section titled 'No elements available' with navigation arrows. The main panel is titled 'QUICK MEASUREMENT' and features two tabs: 'Single' and 'Patches list', with the latter being selected. Under the 'Patches list' tab, there is a dropdown menu for 'Patches strip' set to '4 colores 100_80_50_30_3'. Below this is the 'Inks / Anilox:' section with three buttons: 'Add CMYK', 'Add RGB', and 'Clean'. The 'Add ink' section has a dropdown menu set to 'P_2738 BIS' and a plus icon. At the bottom, there is a 'Generate patch list' button.

The first thing we must do if we want to use this type of measurement is to choose the options that fit the print we want to measure.

- 1° Choose the patches strip you need according to what you are going to measure.



- 2° Press 'ADD CMYK' if it's a four-color printing process.
If you've got a seven-color printing process, also press 'ADD RGB' and 'CLEAN' if you would like to remove everything you've chosen.

Patches strip:

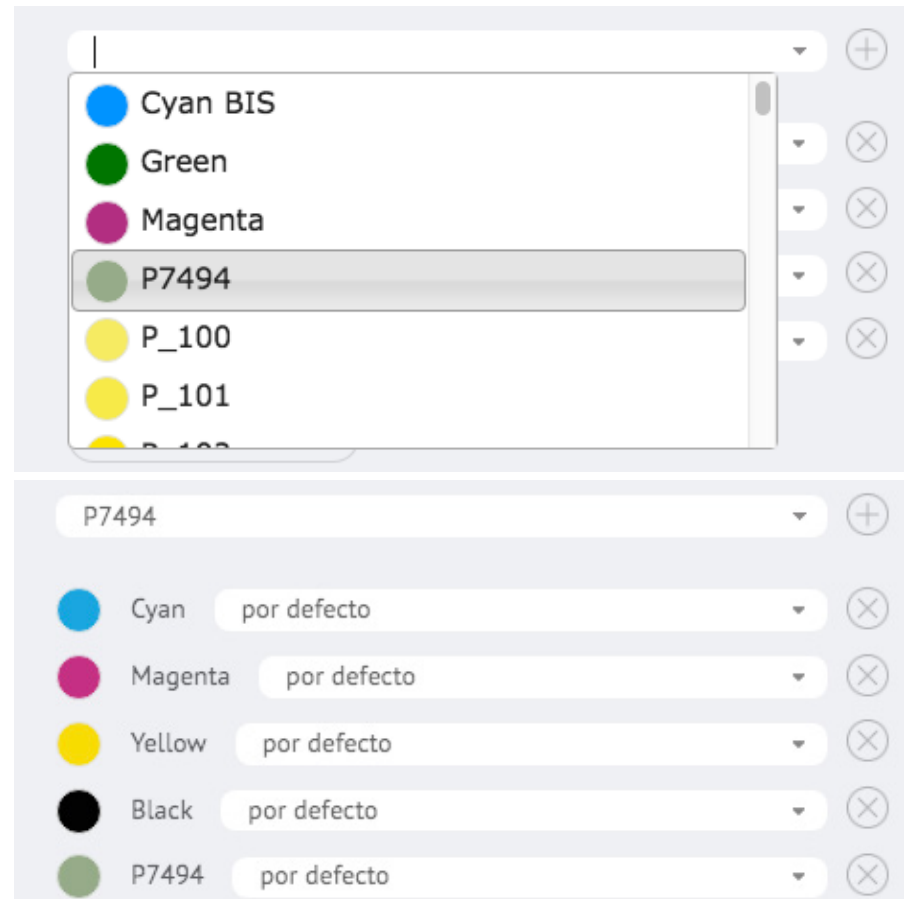
Inks / Anilox:

Add ink

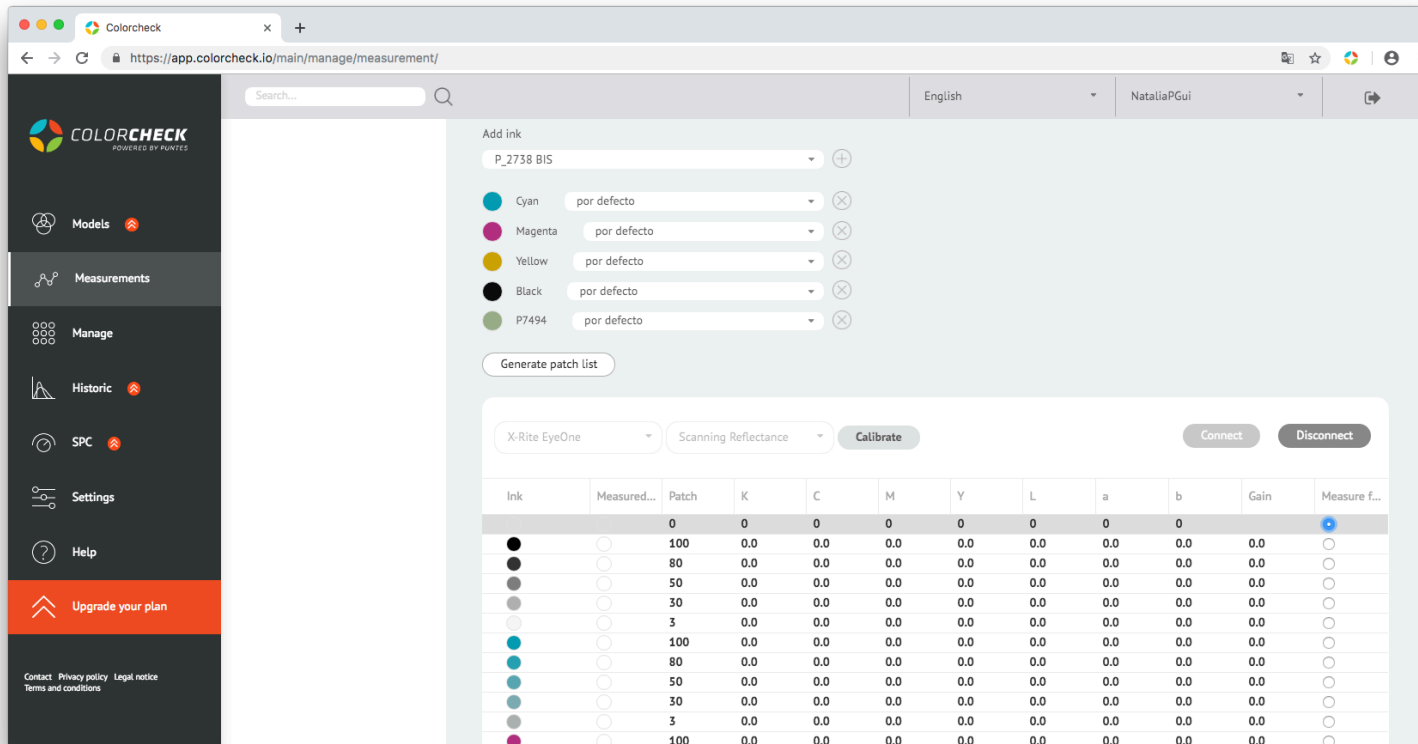
Into all the options we have when we choose inks to generate the patch strip, we have the possibility of adding other inks from the library.

Select the ink you need from the drop-down and press the '+'

(to remove one of the inks you just need to click on the 'X' of this ink, also for CMYKRGB)



- 3° Once you choose the strip, and the inks you need, press 'GENERATE PATCH STRIP' and each patch to measure on the strip will appear.



Ink	Measured...	Patch	K	C	M	Y	L	a	b	Gain	Measure f...
		0	0	0	0	0	0	0	0	0	+
●	○	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	○
●	○	80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	○
●	○	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	○
●	○	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	○
●	○	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	○
●	○	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	○
●	○	80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	○
●	○	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	○
●	○	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	○
●	○	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	○
●	○	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	○

- 4° Connect the cable of the measuring device to the computer.

5° Select the measuring device you're going to use and then the measurement method.

- Scanning Reflectance (scanning mode)
- Single Reflectance (patch by patch)

- Single Emission
- Scanning Ambient Light
- Single Ambient Light

(These two options are for measuring prints)

(To measure screens) **for now they aren't available**

The screenshot displays two panels of the software interface. The top panel shows the 'X-Rite EyeOne' device selected and 'Scanning Reflectance' as the measurement method. Below this is a table with columns: Patch, K, C, M, Y, L, a, b, Gain, and Measure f... The data rows are:

Patch	K	C	M	Y	L	a	b	Gain	Measure f...
0	0	0	0	0	0	0	0		<input checked="" type="radio"/>
100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<input type="radio"/>
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<input type="radio"/>
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<input type="radio"/>

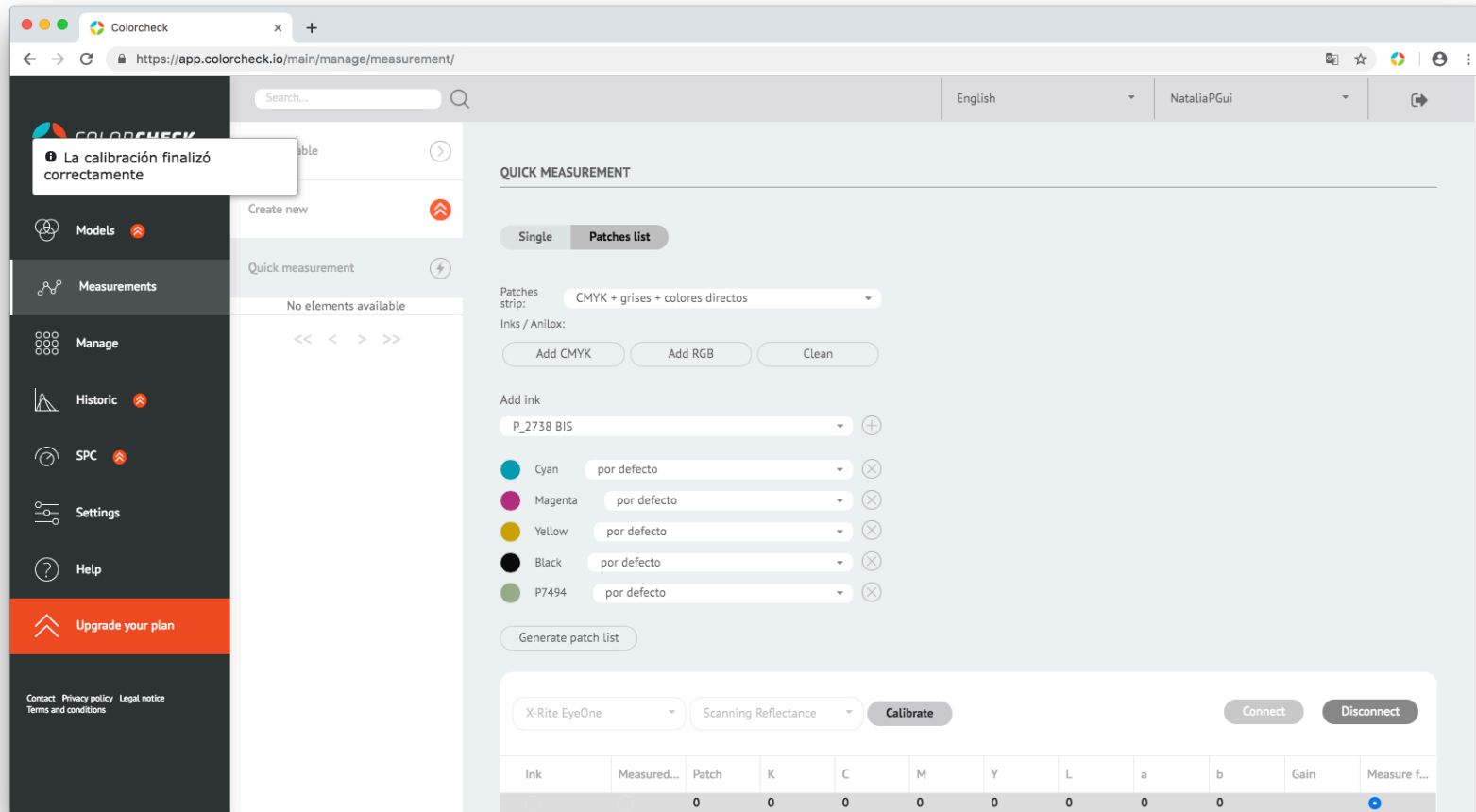
The bottom panel shows the same device selected, but with a dropdown menu open for 'Scanning Reflectance'. The menu options are: Scanning Reflectance, Single Reflectance, Single Emission, Scanning Ambient Light, and Single Ambient Light. Below the menu is another table with columns: Ink, Measured..., M, Y, L, a, b, Gain, and Measure f... The data rows are:

Ink	Measured...	M	Y	L	a	b	Gain	Measure f...
		0	0	0	0	0		<input checked="" type="radio"/>
		0.0	0.0	0.0	0.0	0.0	0.0	<input type="radio"/>
		0.0	0.0	0.0	0.0	0.0	0.0	<input type="radio"/>
		0.0	0.0	0.0	0.0	0.0	0.0	<input type="radio"/>
		0.0	0.0	0.0	0.0	0.0	0.0	<input type="radio"/>

Note:

To change the measurement mode once the device is connected, first disconnect it, change the mode and reconnect.

6° Finally Click on 'CONNECT' and once connected, click on 'CALIBRATE'.



Search...

English NataliaPGui

La calibración finalizó correctamente

Models

Measurements

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QUICK MEASUREMENT

Single Patches list

Patches strip: CMYK + grises + colores directos

Inks / Anilox:

Add CMYK Add RGB Clean

Add ink

P_2738 BIS

Cyan por defecto

Magenta por defecto

Yellow por defecto

Black por defecto

P7494 por defecto

Generate patch list

X-Rite EyeOne Scanning Reflectance Calibrate

Connect Disconnect

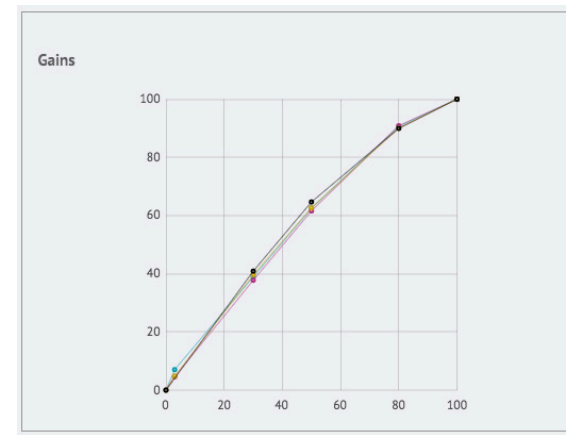
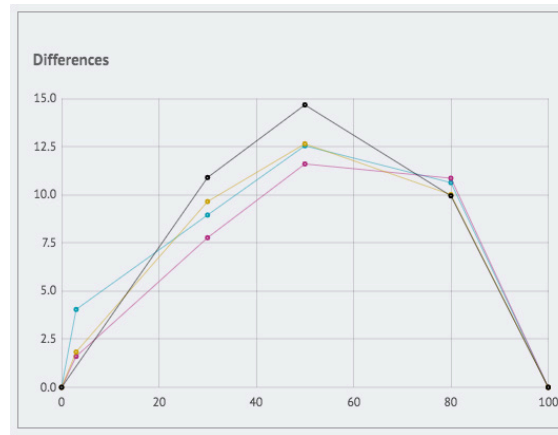
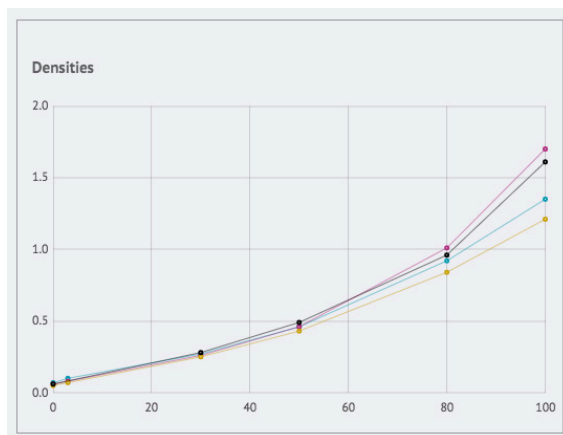
Ink	Measured...	Patch	K	C	M	Y	L	a	b	Gain	Measure f...
			0	0	0	0	0	0	0		

When 'The calibration finished correctly' appears in the upper left part of the screen, you are ready to measure your strip.

This would be an example of strip measurement performed correctly :

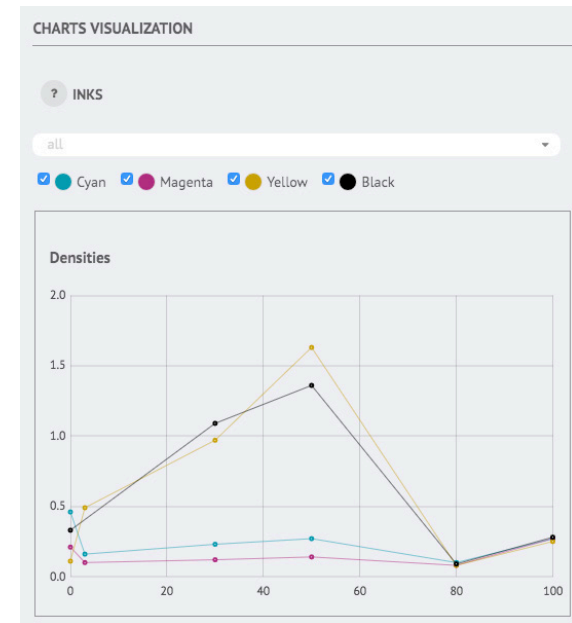
X-Rite EyeOne Scanning Reflectance Calibrate Connect Disconnect

Ink	Measured...	Patch	K	C	M	Y	L	a	b	Gain	Measure f...
		0	0.06	0.07	0.06	0.05	94.76	-0.06	-2.61		<input checked="" type="radio"/>
		100	0.74	1.35	0.42	0.2	55.4	-34.4	-51.18	100	<input type="radio"/>
		80	0.58	0.92	0.34	0.16	62.96	-27.73	-42.75	91	<input type="radio"/>
		50	0.33	0.46	0.21	0.11	76.29	-15.52	-26.83	63	<input type="radio"/>
		30	0.21	0.27	0.14	0.08	84.46	-8.47	-16.55	39	<input type="radio"/>
		3	0.08	0.1	0.07	0.05	93.18	-1.6	-5.06	7	<input type="radio"/>
		100	0.65	0.27	1.7	0.65	48.09	74.45	-2.26	100	<input type="radio"/>
		80	0.53	0.23	1.01	0.5	56.77	59.03	-5.56	91	<input type="radio"/>
		50	0.31	0.16	0.46	0.27	73.16	31.47	-7.31	62	<input type="radio"/>
		30	0.2	0.12	0.26	0.16	82.6	17.99	-6.28	38	<input type="radio"/>
		3	0.08	0.07	0.08	0.06	93.39	2.39	-3.42	5	<input type="radio"/>
		100	0.11	0.08	0.14	1.21	89.31	-5.88	88.86	100	<input type="radio"/>
		80	0.1	0.08	0.12	0.84	90.31	-6.05	69.59	90	<input type="radio"/>
		50	0.08	0.07	0.1	0.43	92	-4.6	37.91	63	<input type="radio"/>
		30	0.07	0.07	0.08	0.25	93.12	-3.05	20.28	40	<input type="radio"/>
		3	0.06	0.06	0.06	0.07	94.78	-0.57	0.32	5	<input type="radio"/>
		100	1.61	1.61	1.61	1.62	17.73	0.5	-0.51	100	<input type="radio"/>
		80	0.96	0.97	0.96	0.97	39.48	-0.09	-0.62	90	<input type="radio"/>
		50	0.49	0.5	0.49	0.49	63.44	-0.27	-1.5	65	<input type="radio"/>
		30	0.28	0.28	0.27	0.27	77.78	-0.29	-1.62	41	<input type="radio"/>
		3	0.09	0.09	0.08	0.08	92.63	-0.22	-2.32	0.0	<input type="radio"/>



This would be a clear example of wrong strip measurement:

Ink	Measured...	Patch	K	C	M	Y	L	a	b	Gain	Measure f...
		0	0.58	0.91	0.34	0.16	62.96	-27.71	-42.71		
		100	0.33	0.46	0.21	0.11	76.25	-15.57	-26.82	67	<input type="radio"/>
		80	0.21	0.27	0.14	0.08	84.43	-8.45	-16.56	38	<input type="radio"/>
		50	0.08	0.1	0.07	0.05	93.13	-1.58	-5.02	100	<input type="radio"/>
		30	0.65	0.27	1.7	0.65	48.06	74.38	-2.25	38	<input type="radio"/>
		3	0.53	0.23	1	0.5	56.74	58.81	-5.52	31	<input type="radio"/>
		100	0.31	0.16	0.46	0.27	73.06	31.39	-7.25	100	<input type="radio"/>
		80	0.2	0.12	0.27	0.16	82.53	17.94	-6.28	61	<input type="radio"/>
		50	0.08	0.07	0.08	0.06	93.37	2.39	-3.37	60	<input type="radio"/>
		30	0.11	0.08	0.14	1.22	89.23	-5.81	88.96	22	<input type="radio"/>
		3	0.1	0.08	0.12	0.84	90.28	-6.05	69.66	15	<input type="radio"/>
		100	0.08	0.07	0.1	0.43	91.94	-4.58	38	58	<input type="radio"/>
		80	0.07	0.07	0.08	0.25	93.11	-3.02	20.23	35	<input type="radio"/>
		50	0.06	0.06	0.06	0.07	94.7	-0.54	0.4	61	<input type="radio"/>
		30	1.61	1.61	1.61	1.64	17.62	0.49	-0.19	100	<input type="radio"/>
		3	0.5	0.5	0.49	0.49	63.4	-0.25	-1.44	64	<input type="radio"/>
		100	0.28	0.28	0.27	0.28	77.73	-0.31	-1.52	37	<input type="radio"/>
		80	0.09	0.09	0.08	0.08	92.53	-0.21	-2.31	83	<input type="radio"/>
		50	1.36	1.31	1.33	1.36	24.8	1.18	-1.4	100	<input type="radio"/>
		30	1.09	1	1.1	1.09	33.88	6.55	-0.88	95	<input type="radio"/>
		3	0.64	0.57	0.64	0.67	54.83	5.83	1.86	0.0	<input type="radio"/>



It's easy to know when a measurement has not been performed correctly.

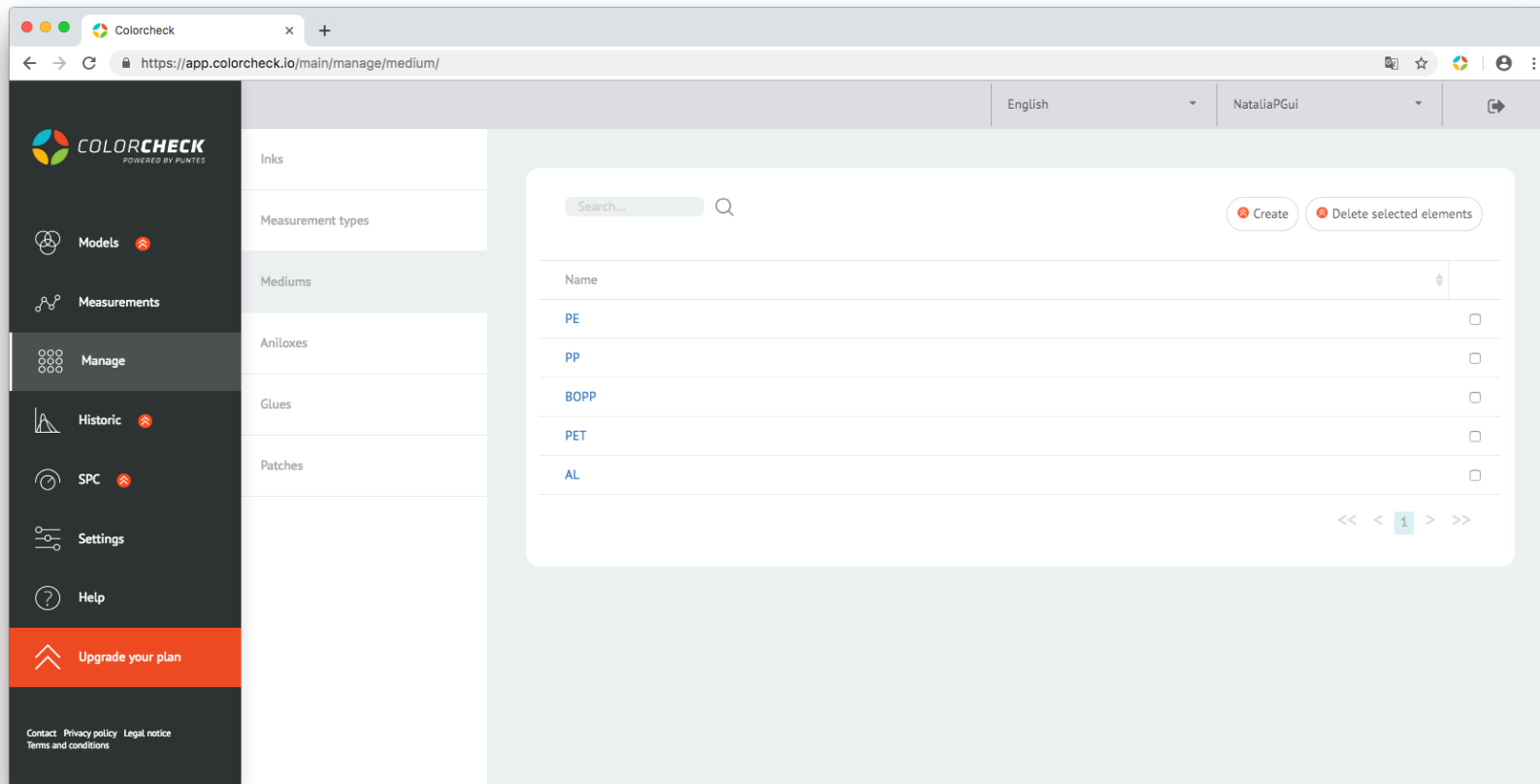
When the patches we have measured with the chosen strip doesn't match, as in the case of the example, we haven't measured the support, that patch should be white and however it has measured the 100 of Cyan, which makes that the rest of the strip doesn't match with the correct percentages either.

It can also be the case that any loose patch is not measured correctly when it is measured in scanning mode (if the strip is measured very fast or at the contrary very slowly). We see that the preview (Charts Visualization) doesn't show the color it should. In all these cases, an unusual or out of place rise would be observed in the graphs, like data that doesn't correspond, as can be seen in the screen shot example.

MANAGE

In this tab of the main menu we find another sub-menu that gives us access (a visual access) to the base of Inks, Measurement Types, Mediums, Aniloxes, Glues and Default Patches in Colorcheck.

In this plan there isn't option to create or delete elements from these lists, you will need to access to a higher plan to have privilege.



The screenshot displays the Colorcheck web application interface. The browser address bar shows the URL <https://app.colorcheck.io/main/manage/medium/>. The user is logged in as 'NataliaPGui' and the language is set to 'English'. The left sidebar contains a navigation menu with the following items: Models, Measurements, Manage (highlighted), Historic, SPC, Settings, and Help. At the bottom of the sidebar is an 'Upgrade your plan' button. The main content area shows a list of Mediums with the following entries:

Name	
PE	<input type="checkbox"/>
PP	<input type="checkbox"/>
BOPP	<input type="checkbox"/>
PET	<input type="checkbox"/>
AL	<input type="checkbox"/>

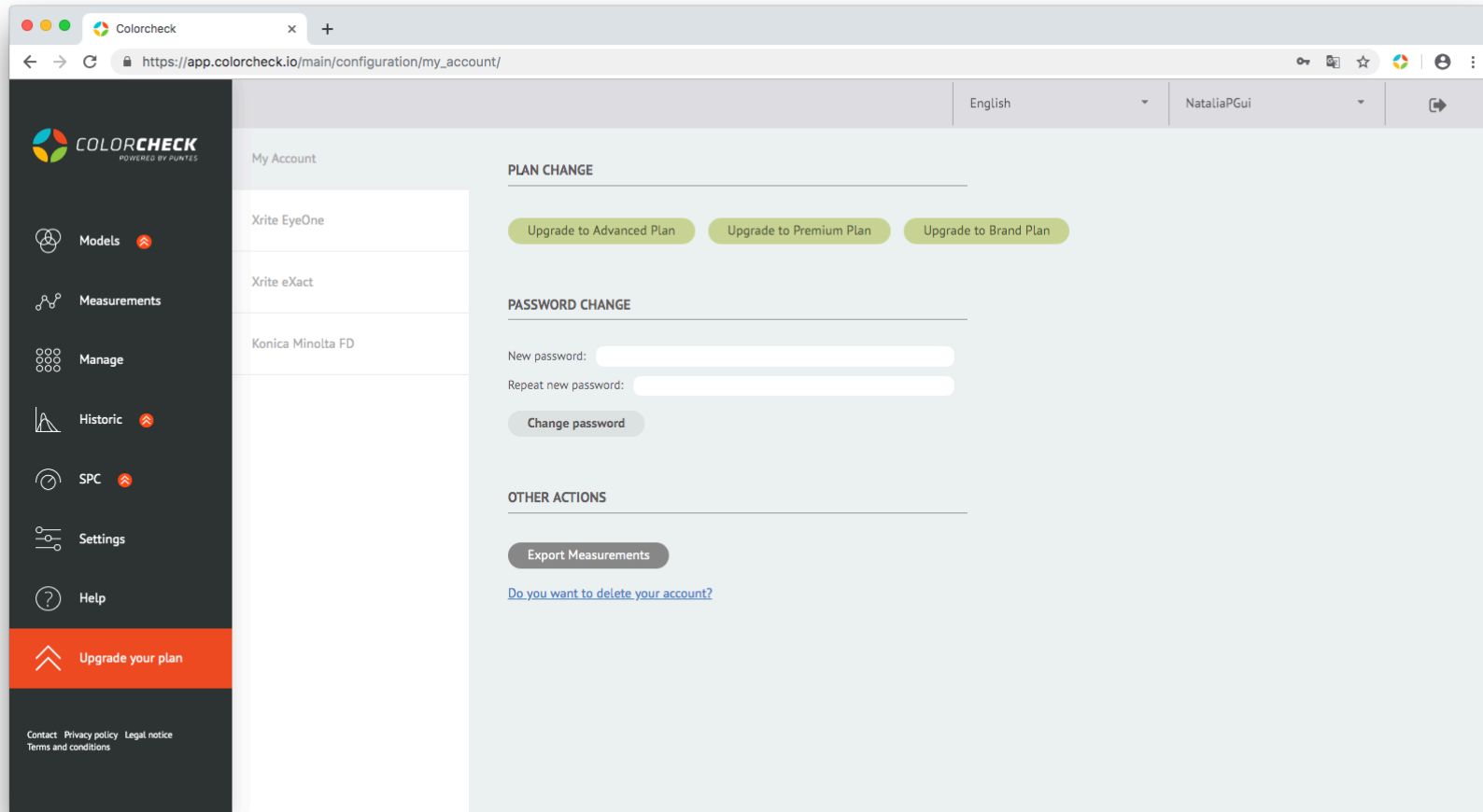
At the top of the main content area, there is a search bar and two buttons: 'Create' and 'Delete selected elements'. At the bottom right of the table, there are pagination controls showing '<< < 1 > >>'.

SETTINGS

In this tab of the main menu we find again another sub-menu, but in this case it gives us access to the configuration of the different measuring devices that are consistent with Colorcheck.

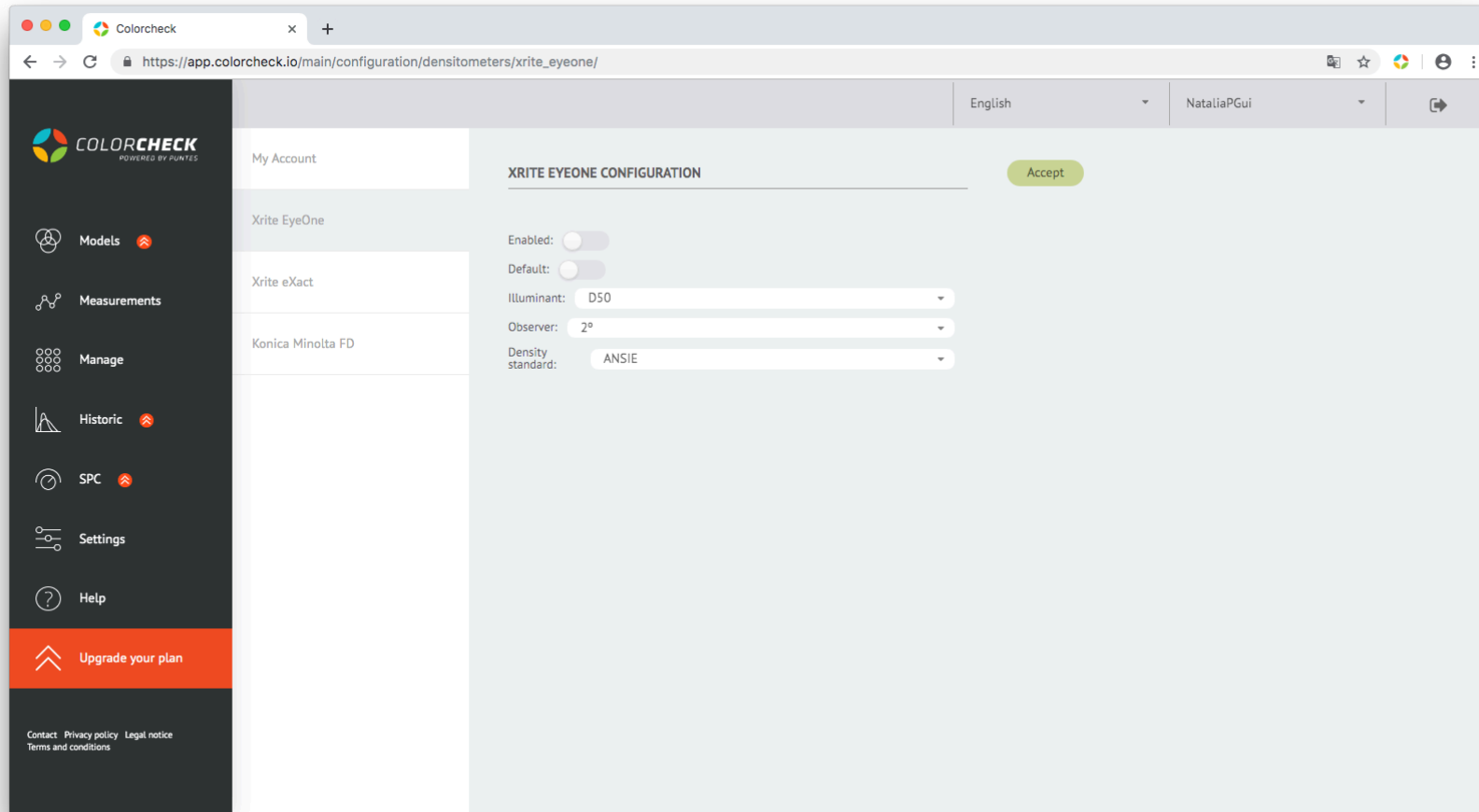
In the tab 'My account' you can request another plan (only a higher plan of the current one), a password change or even delete the colorcheck account.

You can also come here by clicking on 'UPGRADE YOUR PLAN'.



The other tabs are those of the devices that can be used with colorcheck.

From here you can change both the measurement area and the lighting of each of the devices.



HELP

Finally we find the 'HELP' tab.

By clicking here colorcheck redirects us to its presentation page in the section of User Frequently Asked Questions (FAQ), including to downloadable patch strip and manuals like this one, for each of the available plans.

