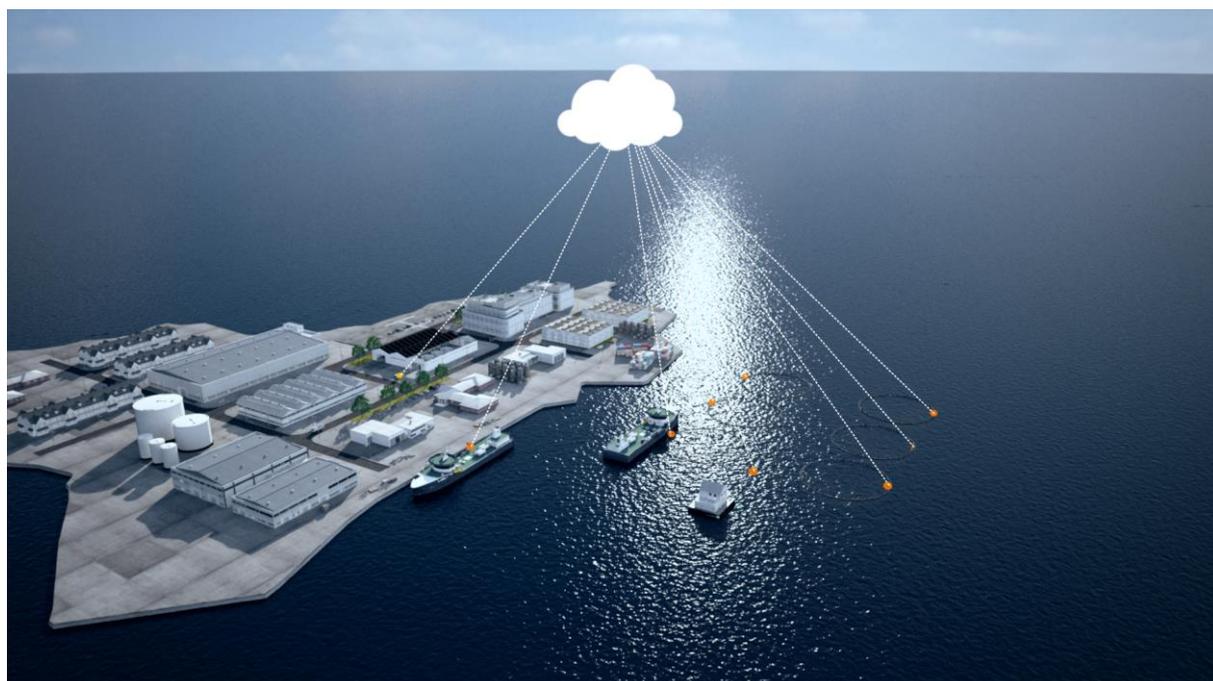


# VAKI Cloud



## User Manual



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# VAKI Cloud

counters.vakicloud is a web application that provides the user an overview and detailed information of data from VAKI counters.

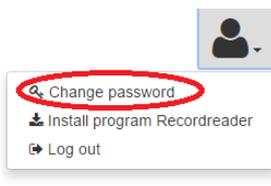
The web application can be accessed in browser through the url: [www.counters.vakicloud.com](http://www.counters.vakicloud.com).

Data from VAKI counters are created after each count and moved to a database hosted by VAKI. This web application makes users with the correct rights able to view these data in a very accessible way anywhere.

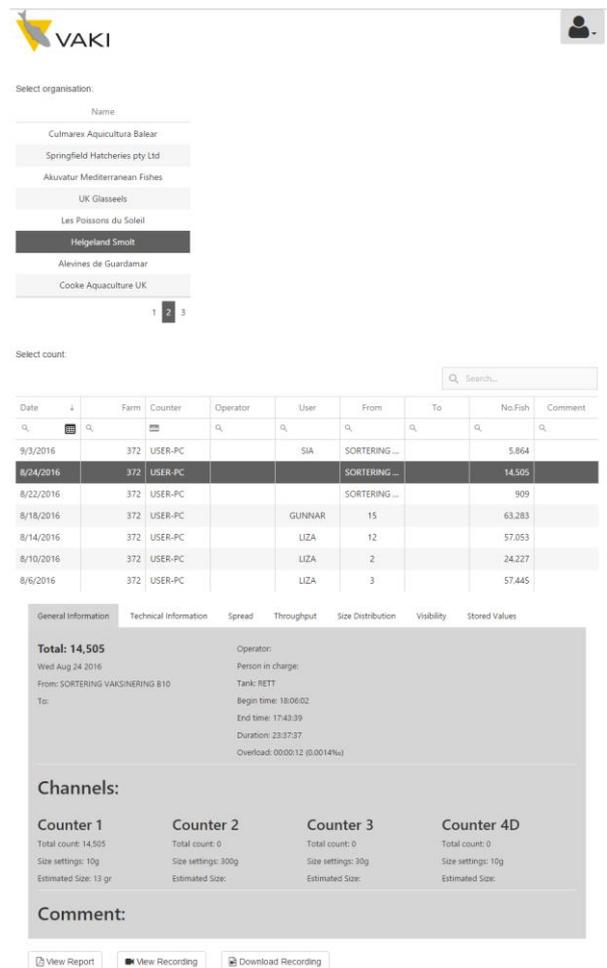
## Log-In and access control

Each user is granted an access to the system with a user name and password.

Users are given a password. To change the password first log in and then click on the icon on the top right corner and click on *Change password*.



At log in a list of organizations is displayed that the user has access to. If clicked on an organization a list of all counts from that organization is showed. The user can sort, filter and search the list. When clicked on a particular count, a tab element is displayed with 7 tabs: general information, technical Information, spread, throughput, size distribution, visibility and stored values. Each tab contains information and/or graph from the count selected.



The screenshot shows the VAKI web application interface. At the top, there is a user profile icon and a dropdown menu with 'Change password' highlighted. Below this is a 'Select organisation:' section with a list of organizations including 'Culmarex Aquicultura Balear', 'Springfield Hatcheries pty Ltd', 'Akvatur Mediterranean Fishes', 'UK Glassseels', 'Les Poissons du Soleil', 'Helgeland Smolt', 'Alevines de Guardamar', and 'Cooke Aquaculture UK'. The 'Helgeland Smolt' organization is selected. Below this is a 'Select count:' section with a search bar and a table of counts. The table has columns for Date, Farm, Counter, Operator, User, From, To, No.Fish, and Comment. The selected count is '8/24/2016' with a total of 14,505 fish. Below the table is a detailed report for the selected count, showing general information, technical information, spread, throughput, size distribution, visibility, and stored values. The report includes details such as 'Total: 14,505', 'Wed Aug 24 2016', 'From: SORTERING VAKSINERING B10', 'To: ', 'Operator: ', 'Person in charge: ', 'Tank: RETT', 'Begin time: 18:06:02', 'End time: 17:43:39', 'Duration: 23:37:37', and 'Overload: 00:00:12 (0.0014%)'. There are also tabs for 'Channels:' showing 'Counter 1' through 'Counter 4D' and a 'Comment:' section.

Select count:

Date	Farm	Counter	Operator	User	From	To	No.Fish	Comment
9/3/2016	372	USER-PC		SIA	SORTERING VAK...		5,864	
8/24/2016	372	USER-PC			SORTERING VAK...		14,505	
8/22/2016	372	USER-PC			SORTERING VAK...		909	
8/18/2016	372	USER-PC		GUNNAR	15		63,283	
8/14/2016	372	USER-PC		LIZA	12		57,053	
8/10/2016	372	USER-PC		LIZA	2		24,227	
8/6/2016	372	USER-PC		LIZA	3		57,445	

## General Information

The general information tab contains basic information from the count. Total fish count is showed in bold. Below is the date of which the count was performed.

Then to the right operator, person in charge and tank is showed. Also time related information such as the begin time and end time of when the count was performed and the duration. Also for how long the count was overload and promill (‰) of the total time.

Below there is information about each channel: *total count*, *size settings*, and *estimated size*.

General Information	Technical Information	Spread	Throughput	Size Distribution	Visibility	Stored Values
<p><b>Total: 3,870</b></p> <p>Mon Sep 12 2016</p> <p>From:</p> <p>To:</p>		<p>Operator: Istor</p> <p>Person in charge:</p> <p>Tank:</p> <p>Begin time: 6:50:46</p> <p>End time: 7:33:09</p> <p>Duration: 00:42:22</p> <p>Overload: 00:00:00</p>				
<b>Channels:</b>						
<p><b>Counter 1</b></p> <p>Total count: 2,554</p> <p>Size settings: 10g</p> <p>Estimated Size:</p>		<p><b>Counter 2</b></p> <p>Total count: 1,316</p> <p>Size settings: 10g</p> <p>Estimated Size:</p>		<p><b>Counter 3</b></p> <p>Total count: 0</p> <p>Size settings: 10g</p> <p>Estimated Size:</p>		
<b>Comment:</b>						

## Technical information

The technical information tab contains information concerning technical side of the count, such as the hardware (pc and the camera) and the software. In the *other* section information about the counter type is displayed.

General Information	Technical Information	Spread	Throughput	Size Distribution	Visibility	Stored Values								
<table border="1"> <thead> <tr> <th>PC</th> <th>Camera</th> <th>Software</th> <th>Other</th> </tr> </thead> <tbody> <tr> <td> <p>PC MAC Address:</p> <p>Dropbox Computer Number: Computer237</p> </td> <td> <p>Camera serial number: 13050752</p> <p>Camera MAC Address: 00-11-1C-F5-94-08</p> <p>Scan Rate: 1116</p> <p>Light strength: 1200</p> </td> <td> <p>Magic number: 46150</p> <p>Software version: 402</p> </td> <td> <p>Counter Type: 3 ch Micro</p> <p>Channel width: 0</p> </td> </tr> </tbody> </table>							PC	Camera	Software	Other	<p>PC MAC Address:</p> <p>Dropbox Computer Number: Computer237</p>	<p>Camera serial number: 13050752</p> <p>Camera MAC Address: 00-11-1C-F5-94-08</p> <p>Scan Rate: 1116</p> <p>Light strength: 1200</p>	<p>Magic number: 46150</p> <p>Software version: 402</p>	<p>Counter Type: 3 ch Micro</p> <p>Channel width: 0</p>
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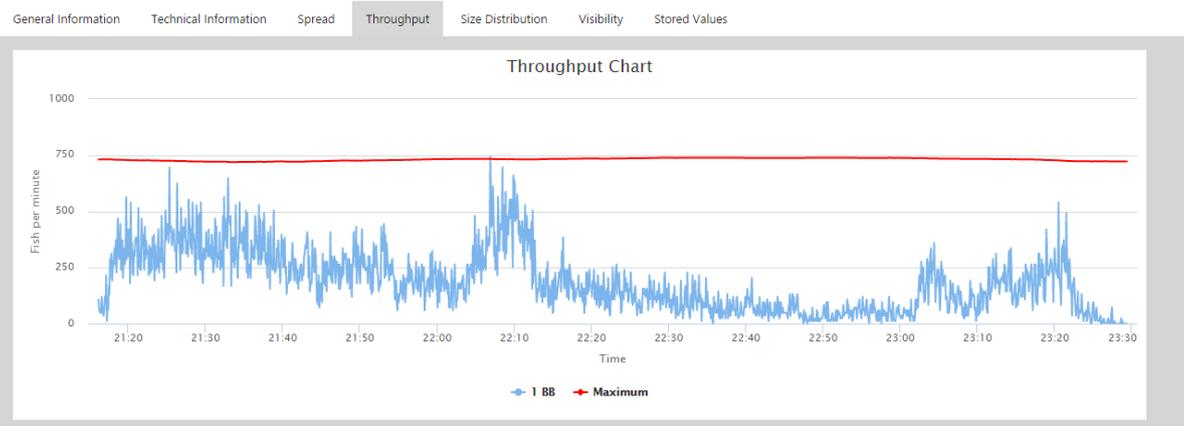
## Spread

The spread chart gives information about where in the channel/scanner the fish is passing. This can show whether the counter is tilted or if the water is flowing through the scanner unevenly. The red line is a line of best fit for each channel, to give a general idea of how well the fish is spread across the camera. The vertical lines indicate the bulkheads in the scanner.



## Throughput

The throughput graph (blue line) shows number of fish at a given moment. The graph also shows maximum capacity the counter can handle (red line).



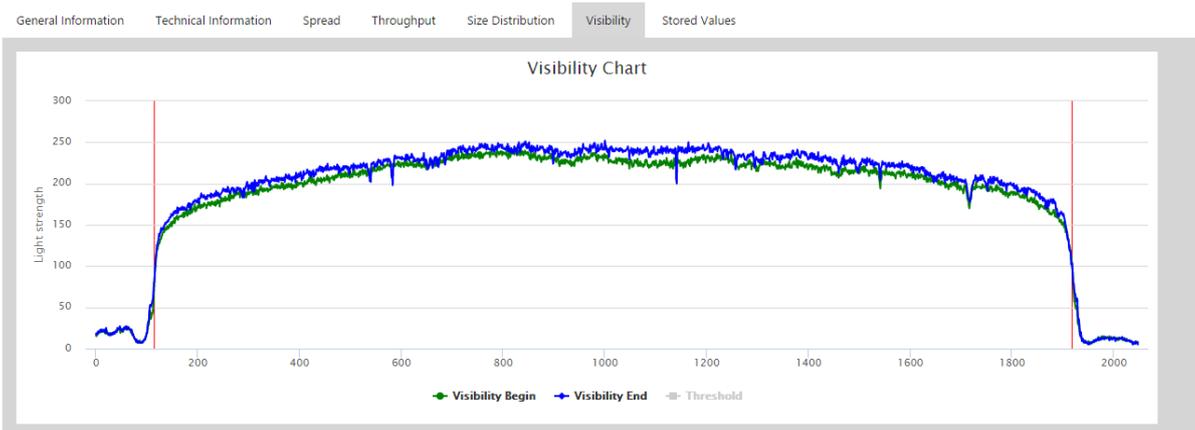
## Size Distribution

This graph shows how large the fish is and in size distribution for for each channel. It shows in presentage how each channel is devied into different sizegroups.



## Visibility

The visibility graph shows the status of the camera inthe beginning of the count and at the end of the count. It shows light strength per pixel. It can give an idea if there is dirt on the glass, mirror or the lens.



## Stored Values

In the counter, while a count is ongoing, there is an option to store values at any given time. These stored values will be displayed in a table in the stored values tab.

## Download and view files

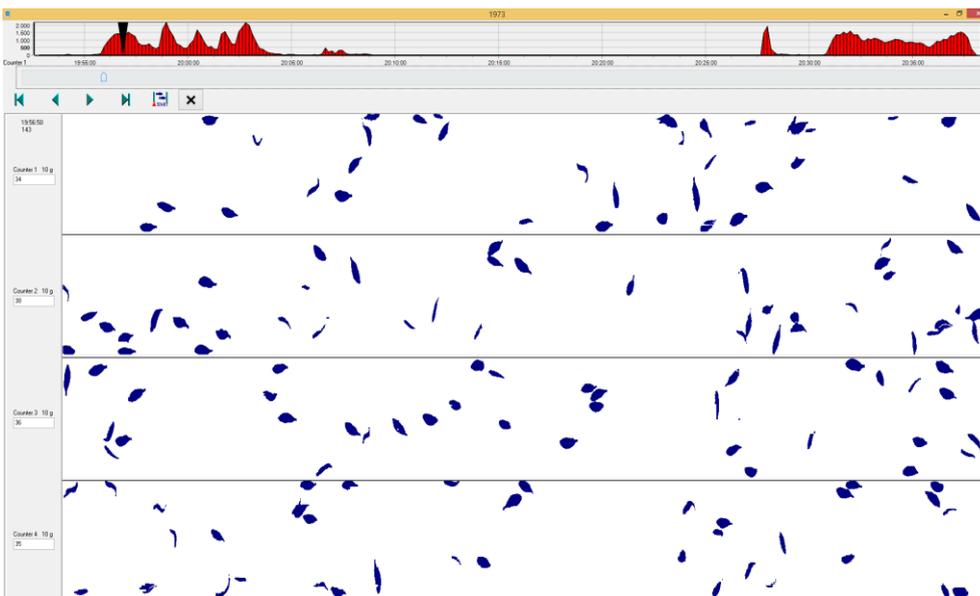
Below the tab element, two buttons are displayed.



One button is for downloading a report in pdf format from the count. The other is to download a video recording file (.blb and .mse) of the count. The files downloaded (.blb and .mse) can be opened in the special Vaki program Recordreader. A link to Recordreader installation is on the website in the top right corner as showed on the picture below.



The Recordreader program can be used to open and view record files (.blb). It can also be used to recount and evaluate the quality of the counting session .



## Channel Counter

Channel counters are usually installed as a group of counters, two or more and generate a number of counting files corresponding to the number of installed counters. This type of counters therefore require different type of viewing.

If a channel counter is selected then only the general information tab is shown. To see more detailed information on each channel click the blue button. The buttons make it easy to navigate between channels.