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FISH WELFARE AND BIOMASS ESTIMATORS

Welfare Monitoring, Lice Counting and Biomass Estimation

A high-quality camera paired with leading software for biomass estimation, lice counting, and welfare measurement gives you full control of fish welfare without handling the fish.

Follow growth from day to day, keep an overview of the lice numbers, and monitor fish welfare.

Imenco Fish Welfare Camera

Fish Welfare Camera with automatic sea lice counting and biomass estimation. Can be combined with Imenco Feeding Camera for the full overview.

Features

→ Precise biomass estimation

→ Automatic lice counting - approved by the Norwegian Food Safety Authority

→ Continously insight and control over the fish welfare status in the cage

→ Detects operative welfare indicators automatically

→ Integrated sensors for O2, temperature and depth

→ High sensitivity and premium colour reproduction under water

→ Connection: 5G, ethernet or Wi-Fi

The next generation Fish Welfare Camera

We introduce the first Multi Camera to the Aquaculture industry. With a combination of the Imenco Feeding Camera and the new Imenco Fish Welfare Camera, you gain full control over feeding, biomass estimation, sea lice counting and the overall fish health status in the cage.

Combined with the Createview user-friendly software, the system gives you a brand new and unparalleled overview of your fish.

Using only the best available modules this camera delivers the best possible underwater images and live video stream.

The Fish Welfare camera is also available as a standalone camera.

Product specification

Standard connector	SubConn DBH13
Power	24VDC / 100 W
Materials	POM / Bronze / Hiduron
Cameras	Biomass and Welfare
Weight in air	19 Kg
Weight in sea water	3 Kg
Depth sensor	Standard
O2 sensor	Standard
Temperature sensor	Standard

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Biomass Measurement Frame

Imenco Aqua's Biomass Measurement Frame is sold world-wide and is well-known for its long lifetime. It is a proven product for almost 30 years and for many, it is best known as the robust and highly reliable "Storvik Frame".

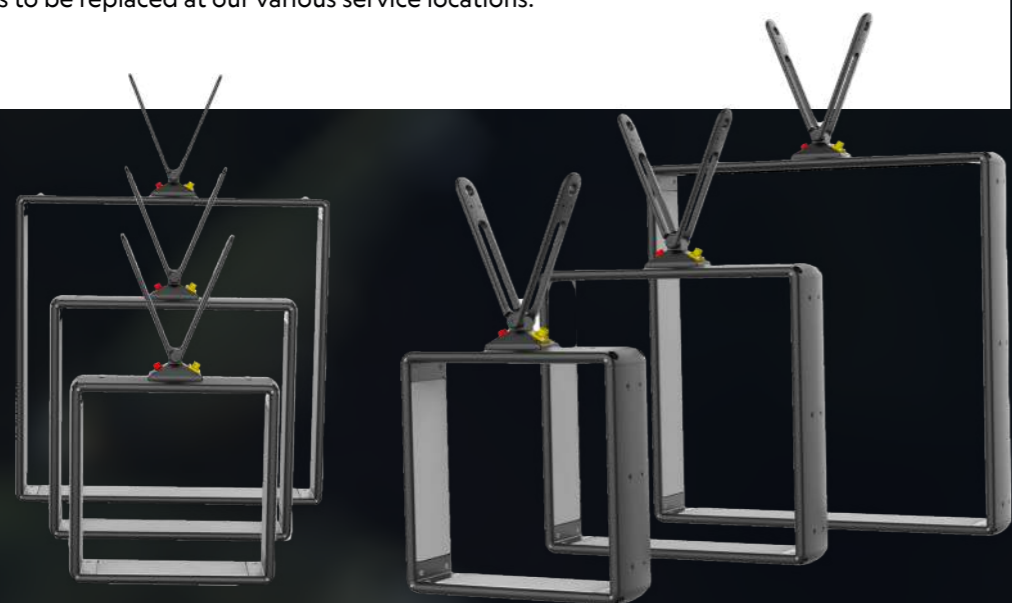## Innovation based on acknowledged technology

The recently developed generation has several new features that provide improved individual accuracy combined with increased level of valid registrations.

→ Robust 3D measurements with high individual accuracy
→ Designed for optimized features in challenging water conditions (high turbidity, water flow or sea current)
→ Optimized for both land-based and sea-based aquaculture
→ High technological capacity
→ Remote support
→ Flexible connection via mobile network, Wi-Fi, or Ethernet
→ OPC UA
→ Easy placement with integrated sensors for angle and depth – data provided in real-time
→ CView analytics provides overview, historical logs, and new opportunities for analysis
→ Measures a variety of fish species
→ Easy maintenance & Service

Easy to install and use

The fish swim through the frame, alone or simultaneously, while the sensors scan the fish's length, height, width, shape, and speed. The data is analyzed in the frame and made available in the built-in OPC UA module. Data is then automatically transferred to the cloud solution, which presents the data to the user in real-time. For example, presenting the distribution of fish in weight classes and their growth over time.

Support related to software and use can be provided remotely and the structure of the frame allows components to be replaced at our various service locations.

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Mort Control

Automatic monitoring and analysis may reduce fish mortality rates

CView LiftUp counts the number of fish mort and estimates the biomass of fish removed from the cages using a pump system supplied by LiftUp. Our systems provide you with information on the causes of fish welfare drops, wastage, and overall mortality.

Preventive measures

Mortality rate is the most widely used health-related welfare indicator. With automatic, daily insight into why fish die, you may continuously prioritize welfare, and carry out improvements.

Registration of welfare indicators

We detect, among other things:

→ Lice
→ Skin health/shell loss
→ Wounds
→ Deformities
→ Gill cover damage

Decision support

All results and data are available through our web-based system CView Analytics.

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CView Analytics

CView Analytics provides access to information concerning:

→ welfare status
→ lice numbers
→ biomass

The fish Farmer's welfare dashboard

In CView Analytics, fish farmers are presented with easy-to-understand welfare data for each cage/sensor on their personal computer, tablet, or mobile phone. On your preferred device, you can filter your data selection, adjust measurement periods etc. for quick and easy analysis of data presented in the tool.

Traffic lights

In CView Analytics, Createview has established a traffic light system for classifying the level of danger in line with the authorities' guidelines for number of lice per fish. The limit values are configurable.

The results from CView Analytics can be displayed as single images or as graphs and trends over time.

CView

Unique artificial intelligence solution for counting salmon lice, measuring biomass and detecting welfare parameters on the fish.

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Smart Solutions
For Aquaculture

We strive to accomplish two things: To make your workday easier, and
to increase fish health and growth. To achieve those goals, we specialize
in developing state-of-the-art solutions which optimize your business.
Choose Imenco Aqua as your partner – together we create the ideal
aquatic environment for the fish.

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