TiVA UVC

REAL-TIME ANALYSIS – EASY INSTALLATION

Underwater camera for fish monitoring

TiVA UVC is an entirely new type of underwater camera that utilizes advanced real-time AI technology to analyze fish activity beneath the water's surface.

With a **continuous connection to a web platform**, data can be accessed almost instantly as the fish pass by the camera. The platform, accessible from any computer or mobile device, features user-friendly analysis and reporting tools conveniently gathered for swift and effortless access.

The compact size of the underwater housing **enables smooth and cost-effective installations** in any conceivable environment. The hardware package includes the underwater housing with camera. And an equipment cabinet containing all necessary supplies for power and remote connectivity with a lighting solution for improved illumination.

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INSTALLATION

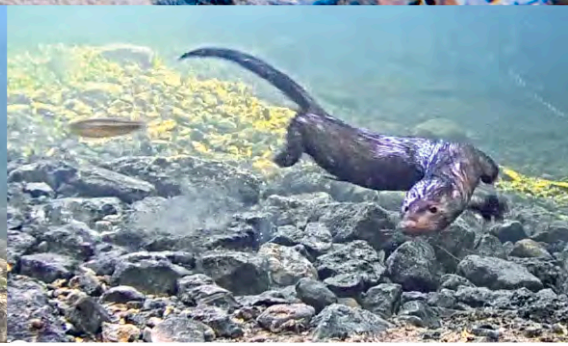
The underwater housing is supplied with a stainless steel bracket for flexible mounting, allowing adjustment of the camera's angle and direction. This enables optimization of the camera's view based on the surrounding environment. The camera features a wide-angle lens and also supports 3X optical zoom.

CAMERA HOUSING

The camera housing is cast in polyurethane, which is both impact-resistant and resistant to water and chemical exposure. The window through which the camera captures footage is made of scratch-resistant polycarbonate, making it easy to clean from any potential algae growth.

LIGHTING

The TiVA UVC underwater camera offers versatile lighting options that can be directly positioned on or around the camera to enhance video quality. The lighting can be remotely turned on, off or be dimmed to best suit the environmental conditions in which it is placed.



SOFTWARE

The image stream from the camera is analyzed in real-time by a processing unit specially trained to recognize only fish that pass by the camera. This ensures that false registrations from external disturbances such as sunlight or underwater vegetation is kept to a minimum.

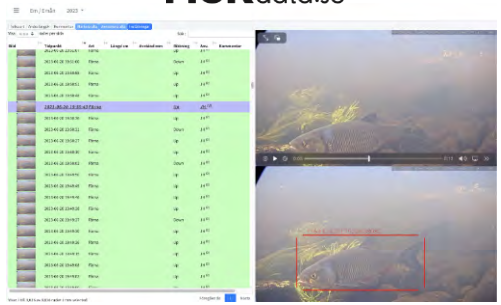
When a fish passes by the camera, information about the time, species, and direction is stored along with an image and video clip of the passage.

WEB PLATFORM

All the records collected by TiVA UVC are continuously uploaded to a user-friendly web platform where the user can access all the data and view all the video clips.

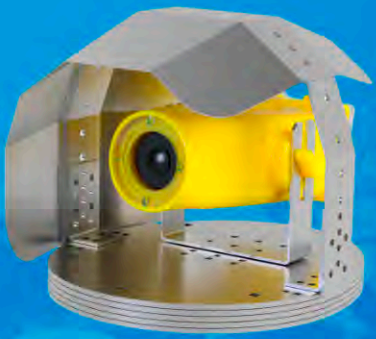
The platform features tools for analyzing every registration and create reports with charts and tables. Of course, it's also possible to export all the data to Excel or similar software for further data processing.

FISKdata.se



TiVA UVC SPECIFICATIONS

TiVA UVC is designed for the smoothest and easiest installation possible. All connections are of the quick-connect type, and only one power source needs to be connected for the unit to be up and running, collecting data and sending it to the web platform fiskdata.se.



TiVA UVC with riverbed fixture

POWER SUPPLY

TiVA UVC can be powered either through a fixed power supply at 110-230VAC or by using solar panels and batteries for convenient installation in areas without access to a stable power source.

OPTICS

The underwater camera consists of a high-quality network camera with a large 1/1.8" image sensor to provide sharp images even in low-light conditions. The camera features a wide-angle lens at 116° and can optically zoom 3X to a 40° angle, offering the best opportunity to compose the image where the fish are expected to pass.

MULTIPLE CAMERAS

Up to four cameras can be connected to each cabinet for covering a wider area.

CABLING

The underwater camera and the illumination ramp are equipped with 15 m long cables featuring quick-connectors, allowing for an easy and flexible installation in the field.

ELECTRICAL CABINET

The underwater camera comes with an electrical cabinet that contains all the necessary equipment for power control and remote communication, including a 4G router with a pre-installed SIM card.

LIVE STREAM

It's possible to live stream the camera to Youtube, Facebook, DaCast, Vimeo or a custom web page.

TiVA

INNOVATION THAT COUNTS