

FR Camera

Feed Response CCTV for aquaculture

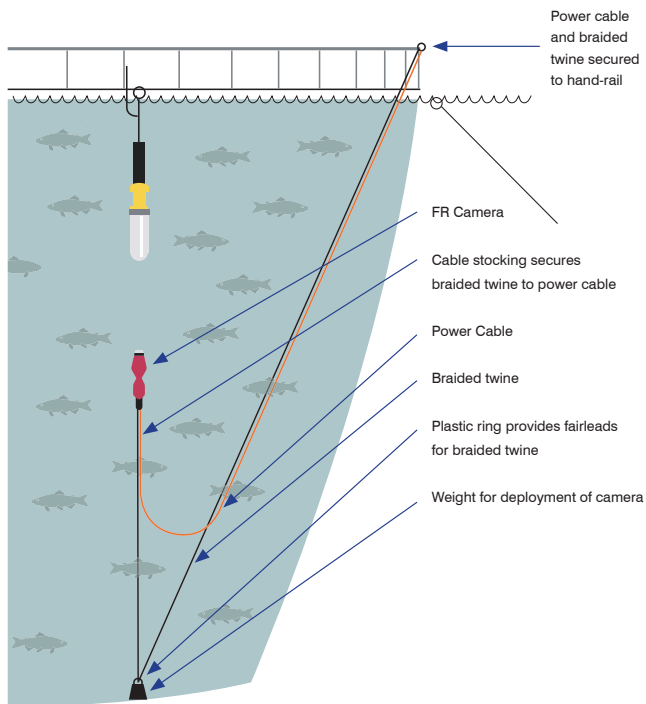


A compact and robust, underwater camera assembly for feed response and behavioural monitoring of fish stocks. The camera is designed for operation in low light conditions and housed for permanent immersion in seawater.

Feed response monitoring is achieved with the camera rendered positively buoyant by the attachment of a floatation collar, allowing its deployment to look vertically upward from a pre-determined point beneath the feeding stock. The accumulation of debris on the camera viewpoint is minimised as a result of the housing.

Camera location and positional adjustment is obtained as depicted in the sketch. A suitable weight, with suspension ring, is lowered to the bottom of the cage net on a twine, or light rope, line threaded through the weight ring and with both ends retained above the surface of the water. The camera, with float, is attached to one end and the other is used to adjust its depth of operation. Typically, the free end is made off to the cage superstructure and a small float is attached to aid the recovery of a stray end.

The combined, camera power and signal cable is taken to the cage side, as shown and terminated in a connector for interface with the monitoring system. The cable is designed to resist abrasion and remains flexible in cold conditions. Like the camera it is designed for permanent immersion in seawater. Camera monitoring systems are available and may be configured to suit individual requirements. Components include camera power supply units; picture monitors; signal amplifiers; automatic and manual, camera selector units and cable assemblies.



SPECIFICATION

- > Min AGC Illumination: 0.01 lux
- > Monochrome image
- > Power supply: 8-12vDC
- > Resolution: 420TV lines

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