

Marine Research: Deep Sea Animal Study

Researchers need high quality imagery at ocean depths of up to 5000ft. The imaging system must be able to endure the water pressure of over 2236 psi (pounds per square inch) and the cold temperatures for prolong periods of time.



Solution:

An HDSDI camera with auto focus and iris lens is sealed within a pressurized container and placed inside an underwater ROV. The ROV is remote controlled and equipped with lighting to illuminate the subjects being studied.

The camera transmits visual data to the researchers on the boat through a fiber optic link or umbilical cord, which connects the ROV.

The camera's images can be recorded for later study. The system is able to operate efficiently at the severe conditions.



HDSDI Camera within
ROV captures deep sea life

Fiber Optic Link

5000 ft

Underwater ROV

