Demonstration of fluorescence imaging of endosymbiotic algae in marine organisms. measurements with the Micro head IMAG-MIC of the IMAGING-PAM. The investigated sample from a marine aquarium contained green filamentous algae, sea anamones, ciliates and flatworms. The movement of the sea anemones and flatworms can be followed via fluorescence imaging.

Endosymbiotic algae contain chlorophyll, which can be imaged via its fluorescence. With every saturation pulse images of F and Fm' are taken. Relatively high Yield-values show that the endosymbiotic algae are photosynthetically active.

The movement of the organisms is best followed via the Fm'-images after starting the Go-function.