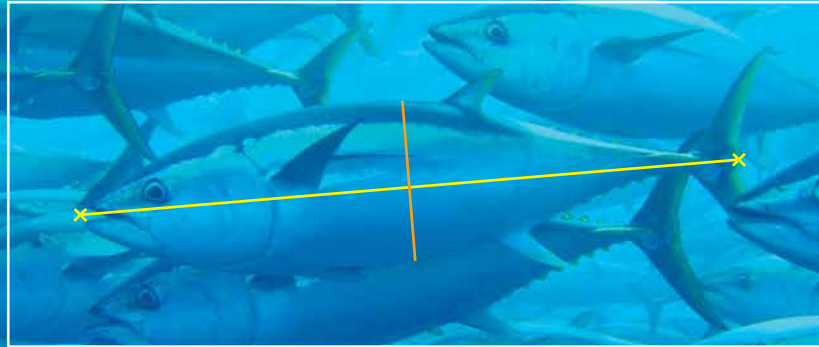# AM100

Underwater Tuna photography courtesy of Adam Watkins.

AM100

FISH SIZING
AND COUNTING
TECHNOLOGY

Description and Benefits

The AM100 is an innovative system that allows non-invasive, rapid, accurate measurement and counting of any fish or marine organism.
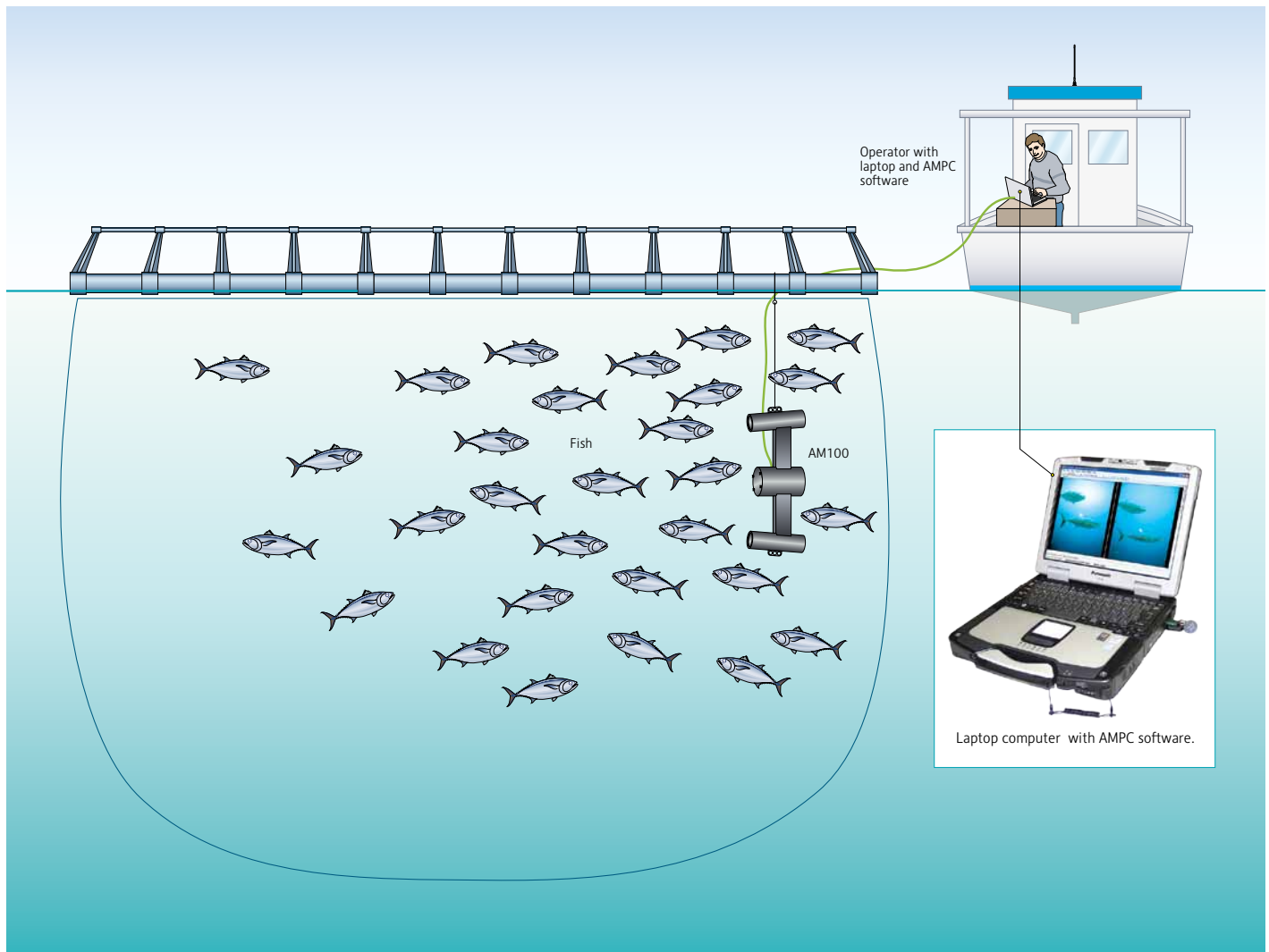
The AM100 system consists of 2 stereo digital cameras in a rugged marine grade underwater housing connected to a ruggedised laptop which has the AM100 analysis software.

The AM100 analysis software allows users to size and count objects underwater. Sizing can be done by single or multiple point-to-point measurements that can be compared directly or used to model functions such as mass or surface area. The AM100 analysis software can count objects moving past a fixed point, which is great for fish transfer or movement situations or in ecological time-related density analysis.

AQ1
AQ1 SYSTEMS

AM100 FISH SIZING AND COUNTING TECHNOLOGY

Operator with laptop and AMPC software

Fish

AM100

Laptop computer with AMPC software.

Specification

Stereo cameras	Two high resolution, high sensitivity 1.4 Megapixel colour cameras (GigE digital Ethernet)
Underwater housing	Aluminium coated in thermoplastic powder coat over a marine anodized finish. (Dimensions 924 x 368 x 224mm, mass 16kg)
Underwater cable	Standard 30m cable (high grade polyurethane CAT 5e)
Computer	Minimum specs: Dual core processor, 1GB RAM, Gigabit Ethernet card, Microsoft XP Pro. Ruggedised laptop recommended for outside use. Pictured: Panasonic tough book (IP-54)
Depth	Rated to 40m
Power	110-240VAC (recommend 12VDC-110/240VAC converter with UPS)
Software	AM100 analysis software -Windows XP based. Data can be exported in a *.csv format
Carry case	Robust transport case
Accuracy	1-2% of measured length up to 8m from the cameras

AQ1 SYSTEMS