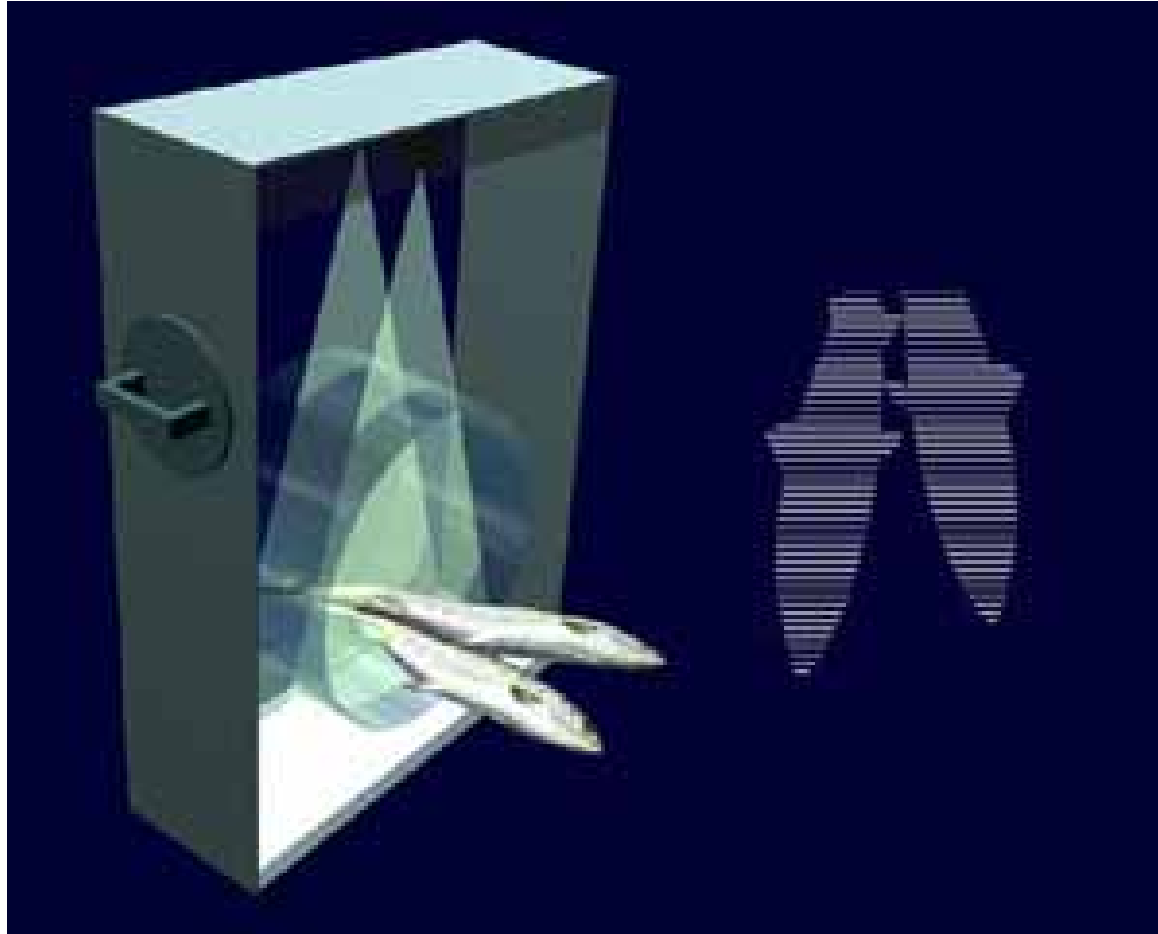


Counting with

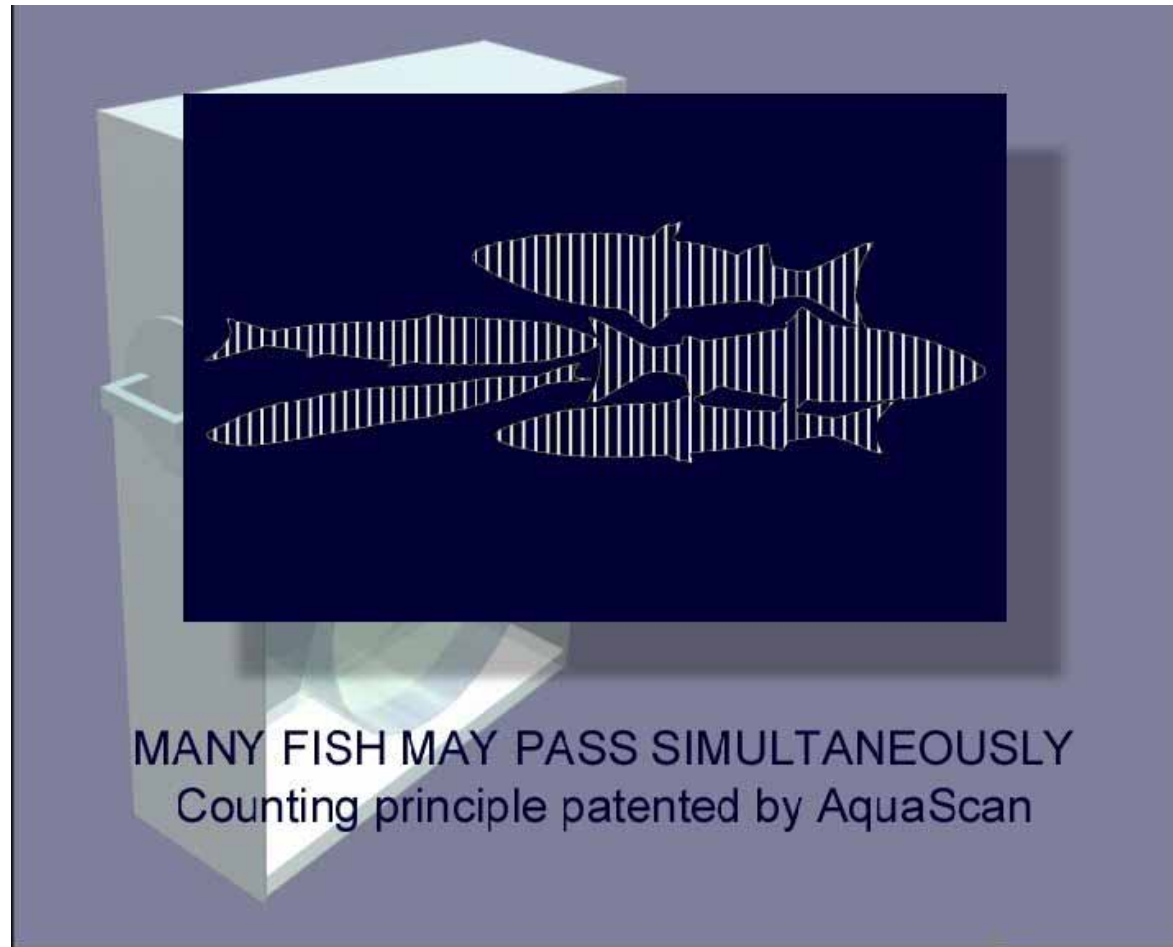
Workshop Gardermoen

Torbjørn Kvasheim, 23.06.2009

Principle drawing



The system measures the size and speed of the fish in order to produce an optimum counting result.



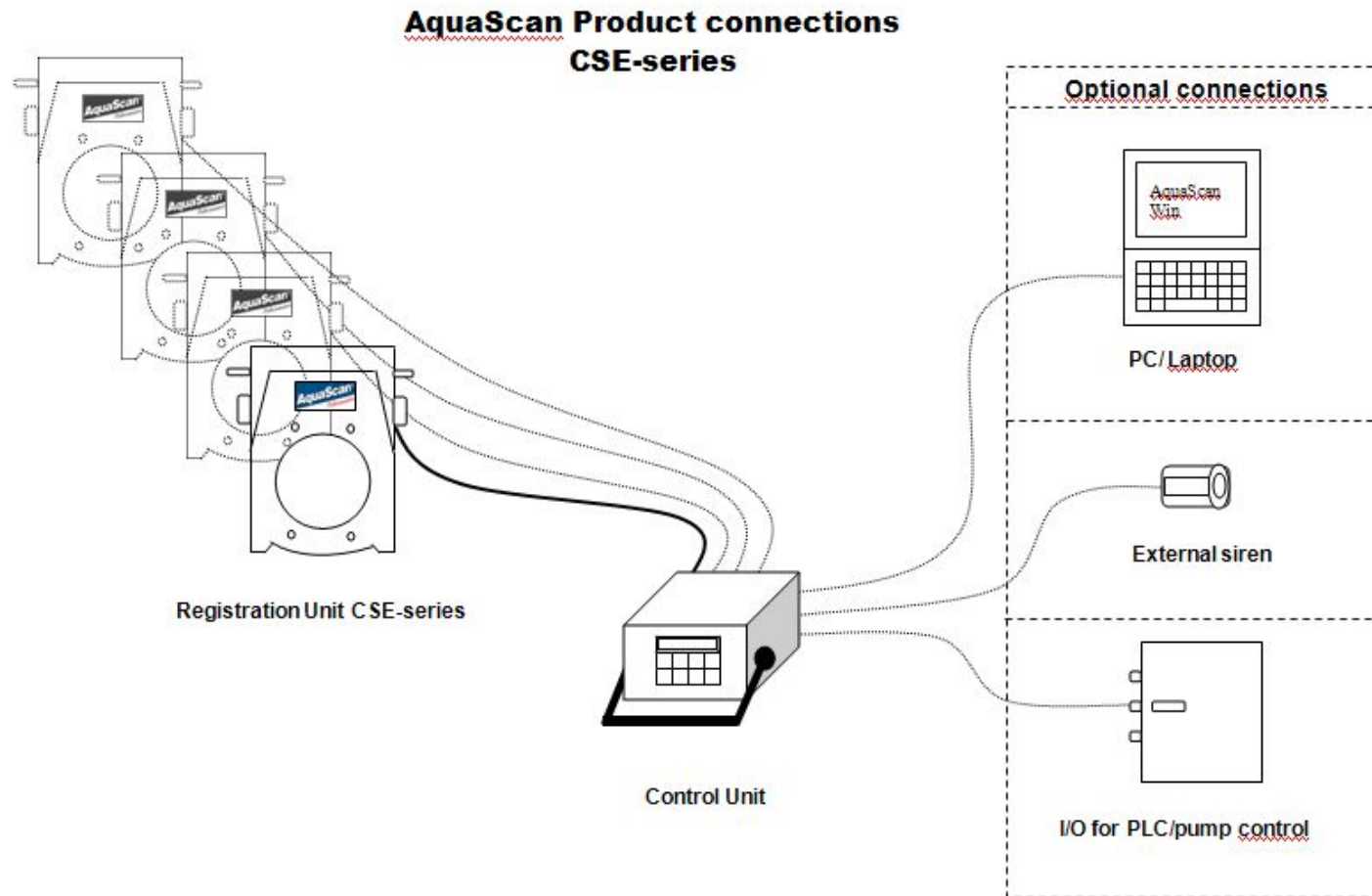
The capacity is only limited that the fish should not lie on top of each other and then cover the view of the sensor (lenses).

Parameter settings/adjustments compensates for some coverage.

Weight information is given from calculations from stored data/tables for area and weight

Counting is a relative process since calculated number equals total measured size divided by average size.

Weight estimation is however an absolute process where measured sizes are converted to a defined unit (gram).



The Control Unit can handle 4 Registration Units at the same time.

(The Control Unit may at the same time handle different models of Registration Units in the CSE-series.)

CSE-series:







Reg. Units CSE3150 (12") connected to a grader at a well boat. Same way of operation as with CSE1600 (6")



Registration Unit CSE3500 on a processing plant.








Control Unit KD-type.

The Control Unit's backlit LCD-display will always show the total number of fish passing through the Registration Unit(s).

AquaScan Win 1.9

COM1 

	Number #	Number %	Average Weight (g)	Total Weight (kg)	Total Weight %	Current Speed	Average Speed	Ne %	Status	
C1	<input checked="" type="checkbox"/>	5	27.8	4510	23	27.2	2.86	2.13	100	Counting
C2	<input checked="" type="checkbox"/>	6	33.3	4504	27	33.3	2.44	2.51	100	Counting
C3	<input checked="" type="checkbox"/>	3	16.7	4698	14	17.3	2.9	2.54	100	Counting
C4	<input checked="" type="checkbox"/>	4	22.2	4681	19	22.2	2.05	2.66	100	Counting
ALL		18	100	4577	82	100			100	Counting

Efficiency (kg/h) Current Efficiency

100 992 410

C1 C3 Distribution
C2 C4

	0-1kg	1-2kg	2-3kg	3-4kg	4-5kg	5-6kg	6-7kg	7-8kg	8-9kg	9-10kg	10kg->
	0	0	0	0	5	0	0	0	0	0	0
%	0	0	0	0	100	0	0	0	0	0	0

Counting started at: 2003-08-20 14:45:04
 Counting stopped at: 2003-08-20 14:50:03
 Run time: 00:04:59

Operator: AquaScan
 Location: AquaScan Lab

Real time monitoring or previous countings may be downloaded from the Control Unit, or from result-files on the PC.

Operating system: Windows 95/98/ME,2000,XP,Vista

Printed results from AquaScan Win:

Operator: AquaScan
 Location: AquaScan Lab
 Counting started at: 2003-05-06 14:05:20
 Counting stopped at: 2003-05-06 14:07:52
 Run time: 00:02:32

Chan.	Number #	%	Average weight (g)	Total weight (kg)	%	Eff. (kg/h)	Average Speed (m/s)	Ne %
C1	63	53.8	1538	97	59.6	2298	2.66	62.4
C2	43	36.8	1531	66	40.4	1558	2.16	83.9
C3	6	5.1	97	1	0.0	14	2.95	100
C4	5	4.3	97	0	0.0	12	2.97	100
Total	117		1400	164		3882		29.0

Chan. C1	Number #	%
0-500g	0	0
500-1000	0	0
1000-1500	9	14
1500-2000	36	57
2000-2500	18	29
2500-3000	0	0
3000-3500	0	0
3500-4000	0	0
4000-4500	0	0
4500-5000	0	0
5000g->	0	0

Chan. C2	Number #	%
0-500g	0	0
500-1000	0	0
1000-1500	5	12
1500-2000	22	50
2000-2500	16	38
2500-3000	0	0
3000-3500	0	0
3500-4000	0	0
4000-4500	0	0
4500-5000	0	0
5000g->	0	0

Chan. C3	Number #	%
0-75g	6	100
75-150	0	0
150-225	0	0
225-300	0	0
300-375	0	0
375-450	0	0
450-525	0	0
525-600	0	0
600-675	0	0
675-750	0	0
750g->	0	0

Chan. C4	Number #	%
0-75g	4	86
75-150	1	14
150-225	0	0
225-300	0	0
300-375	0	0
375-450	0	0
450-525	0	0
525-600	0	0
600-675	0	0
675-750	0	0
750g->	0	0

AquaScan product connections CSW-series

