

# CAP - Wireless Sensor Network



## Wireless transmission of video and sensor data...

This wireless sensor network is an important integrated part of the Akvasmart CCS feed system. The new CAP (Cage Access Point) has two-way data communication with the feed system and is an active part of AkvaControl. Up to two underwater video cameras can be connected to each unit, in addition to the built-in surface camera and camera winch. Important new features include more powerful transmitters, external channel selection, 360° adjustable surface camera and directional antennas. The CAP also allows for connection of temperature-, oxygen-, current- and doppler pellet sensors. Video and sensor data are transmitted by wireless from each cage to the base.

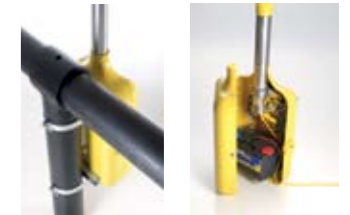
The Wireless Sensor Network provides a practical and reliable access point and communication between cages and farm base.



Robust access point for a wide range of AKVA cameras and sensors. Non-corrosive materials and low maintenance.



Built-in directional antenna and adjustable 360 degrees horizontal view.

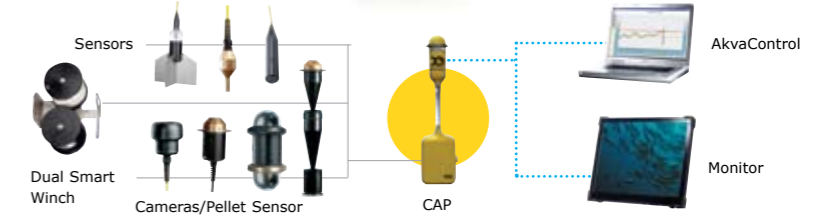


The CAP is user-friendly and easy to mount on cage handrails.



Battery and cable connections are integrated in a splashproof compartment.

### Wireless Sensor Network flow chart:



CAP	Sensor CAP	Smart CAP
Built-in surface camera:	1 pcs.	1 pcs.
Resolution:	380 TV-lines	380 TV-lines
Light sensitivity:	0.2 Lux@F2.0 (Colour)	0.2 Lux@F2.0 (Colour)
Angle of view:	92°	92°
Frequency - video transmission:	5,8 GHz***	5,8 GHz***
Frequency - command radio:	868 MHz***	2,4 GHz***
Power supply:	12 - 24VDC / 230VAC*	12 - 24VDC / 230VAC*
Power consumption:	110 - 1100mA**	180 - 4900mA**
Materials:	Aluminum/PC/Stainless Steel	Aluminum/PC/Stainless Steel
Size - Width x Height :	Ø280 x 770 (Ø10,9"x30,3")	Ø280 x 770 (Ø10,9"x30,3")
Weight:	7kg	7kg
<b>Connections</b>		
Underwater Camera:	2 pcs.	1 pcs.
Temperature Sensor:	1 pcs.	-
Current Sensor:	1 pcs.	-
Oxygen Sensor:	1 pcs.	-
Pellet Sensor - Doppler DPS:	1 pcs.	-
Camera Winch:	-	1 pcs.

\* Via separate AC adapter (extra) \*\* Depending on connected equipment  
\*\*\* Frequencies can vary from country to country

## CAP - a new powerful and reliable transmitter..



The new wireless CAP can transmit camera and sensor data and can easily be installed on both steel- and plastic cages.



The CAP has a built-in surface camera for monitoring fish surface activity and feed spread even in difficult light conditions.



The Akvasmart Smart CAP is designed for the SmartEye Twin Camera and can also control the flexible Smart Winch.