



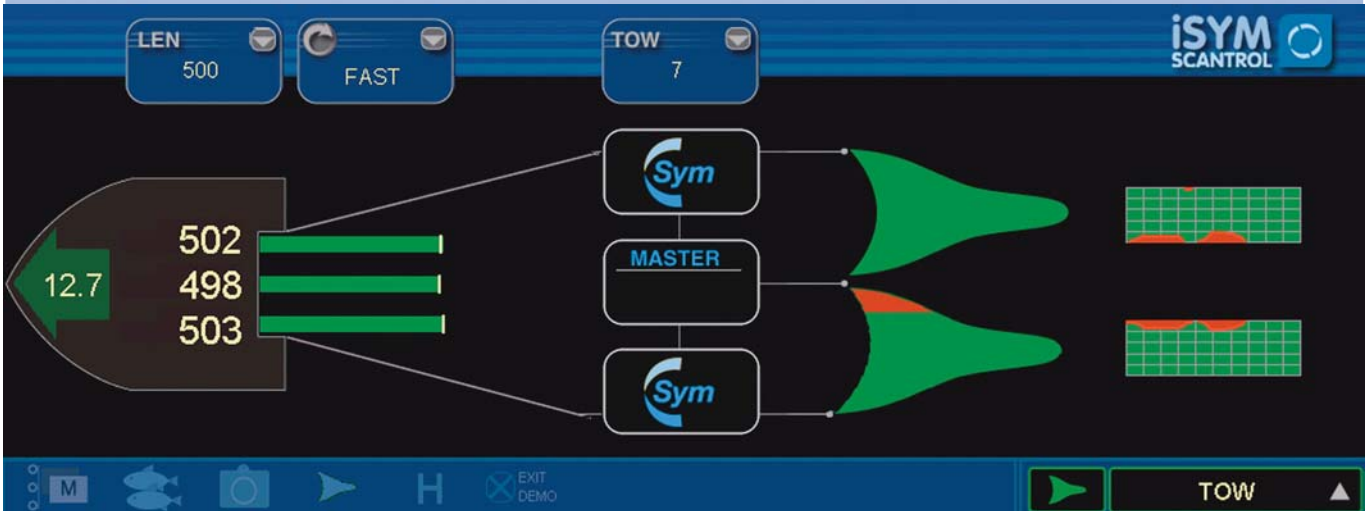
SCANTROL

CATCHING TECHNOLOGY

CATCHING
EFFICIENCY

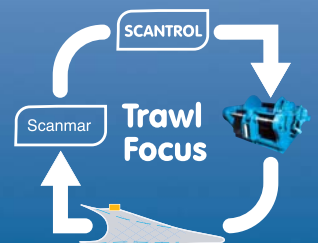
FUEL
ECONOMY

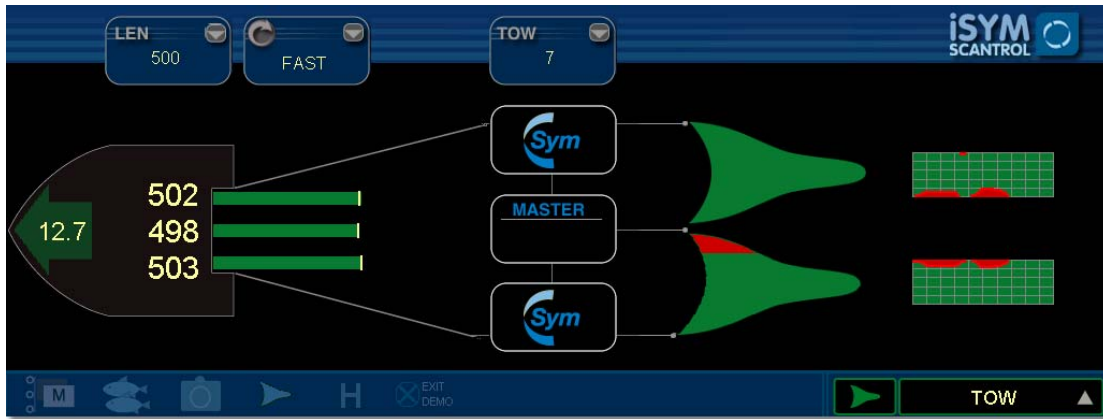
GEAR
ECONOMY



TRAWL CONTROL

- Single Trawl
- Twin-rig
- Pair Trawl
- Pelagic Trawl
- Scalloping





Scantrol iSYM – Trawl control with focus on catching efficiency and catching economy

iSYM is built on a modern technology platform and combines information from the trawl and winches with navigation data and the skipper's settings to control the trawl efficiently. iSYM is a user friendly system that gives the skipper the possibility of choosing different control modes for different fishing conditions.

Design philosophy

All iSYM functions shall give benefits to the user in one or more of these categories:

CATCHING EFFICIENCY	Focus on trawl to maintain high gear performance in varying fishing conditions.
FUEL ECONOMY	Control of winch power, towing power and regeneration of energy.
GEAR ECONOMY	Reduce wear and damages to trawl gear, wires and winches.

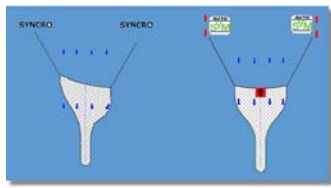


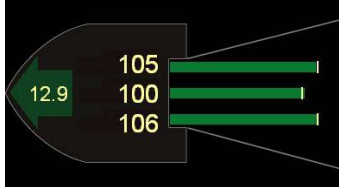



Autotrawl for all winch types

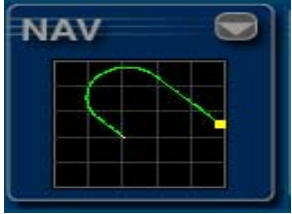



iSYM can control all modern hydraulic and electric trawl winches. iSYM keeps focus on the trawl, and it is not required to have 100% perfect winches to be efficient. In good fishing conditions it is sufficient to work with synchronized winches and equal wire tension, but with iSYM it is possible to improve catching efficiency by controlling the winches according to the water flow into the trawl opening.

iSYM includes all control functions that are required for safe and reliable winch control.

Existing autotrawl systems can be upgraded or replaced.






Function	User Benefit	
<p>Symmetry Control New improved automatic symmetry control for stable and reliable control of your trawl geometry. Correct symmetry is essential for catch efficiency and reduced towing time.</p>	<p>CATCHING EFFICIENCY</p>	
<p>History Simple access to historical data to let you monitor how the haul develops, or analyse previous trawl hauls.</p>	<p>CATCHING EFFICIENCY</p>	
<p>Trawl Profiles Save settings for different gears and fishing grounds and reload the settings when you need them.</p>	<p>CATCHING EFFICIENCY</p>	
<p>Trawl Pull iSYM calculates the force that is being used for pulling the trawl through the sea. This helps the skipper to adjust the engine power in varying tidal and weather conditions.</p>	<p>FUEL ECONOMY</p>	
<p>Winch Response Adjust sensitivity of the winches according to weather conditions or skippers preferences. Separate mode for pelagic trawling.</p>	<p>FUEL ECONOMY</p>	
<p>Snag Detector Automatic detection of fasteners – reduced gear damages, less loss of catch, and quicker back to efficient fishing.</p>	<p>GEAR ECONOMY</p>	
<p>ISPOOL – Electronic Spooling Computer controlled wire spooling can increase the life time of your trawl wires by 50% or more.</p>	<p>GEAR ECONOMY</p>	

Function	User Benefit	
<p>Turn Superb turn performance when you are twin-rigging. Total control during the turn, and quick alignment after the turn – even if your winches are “stiff”.</p>	<p>CATCHING EFFICIENCY</p>	
<p>Pairlink Combining Scantrol iSYM with modern radio technology to give pair trawl skippers comprehensive information and possibilities for full automatic control of winches, engine power, and steering</p>	<p>CATCHING EFFICIENCY FUEL ECONOMY</p>	
<p>Winch Control Reliable and efficient control of all electric and hydraulic trawl winches. All safety functions included. Upgrade kits for most winches available.</p>	<p>GEAR ECONOMY</p>	
<p>Scanmar Connection Access to unfiltered data from Scanmar sensors on the trawl combined with extensive quality control makes it possible to use this information for automatic control of winches, engine power, and course.</p>	<p>CATCHING EFFICIENCY</p>	

User References

iSYM Applications		
Bottom	Pelagic	Shellfish
<ul style="list-style-type: none"> • Single Trawl • Twin-rig • Pair-Trawl • Danish Seining 	<ul style="list-style-type: none"> • Single Trawl • Pair Trawl • Purse seining** 	<ul style="list-style-type: none"> • Clam dredgers • Scallopers
		** Available 2006

Scantrol installations		
< 25 m	25 – 45 m	> 45 m
		
82 vessels	178 vessels	92 vessels

Compatible Winches		
Hydraulic Drive	Electric Drive	
<ul style="list-style-type: none"> • Low Pressure • Medium Pressure • High Pressure 	<ul style="list-style-type: none"> • DC Motor , Thyristor Drive • DC Motor, Ward-Leonard Drive • AC Motor, Frequency Converter 	

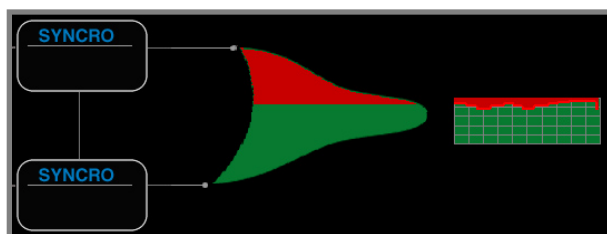
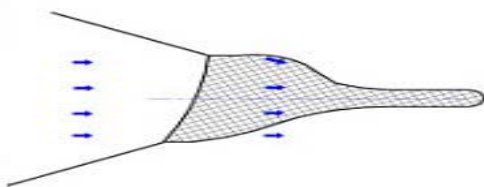
KEEP YOUR NET SQUARE - ALWAYS

iSYM Symmetry Control monitors the direction of water flow into the trawl by a Scanmar Symmetry sensor and adjusts the wire tensions automatically to get the water flow directly into the trawl. This makes the net symmetric and well spread even when towing in strong tides and along slopes. iSYM let the skipper choose towing modes for different towing conditions. It is for example possible to choose normal SYNCRO mode when towing on flat bottom, and Symmetry Control when towing along a slope.

Towing in SYNCRO mode along a slope (port side is deepest)

The net gets skewed because the direction of the water flow is not correct. Lower tension on the port winch is required to square up the net and get the port door on the bottom.

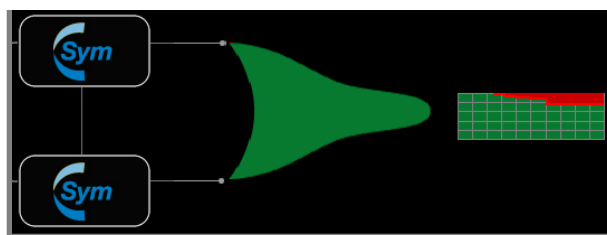
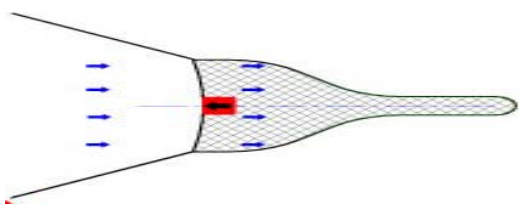
The iSYM display shows the skipper that the trawl is skewed. Towing a skewed net is waste of towing time and fuel.



Towing in Symmetry Control mode along a slope (port side is deepest)

The winches are automatically controlled to get the waterflow directly into the trawl opening. The net will be symmetric even when towing along steep edges.

The iSYM display shows the skipper that he is towing a symmetric trawl.



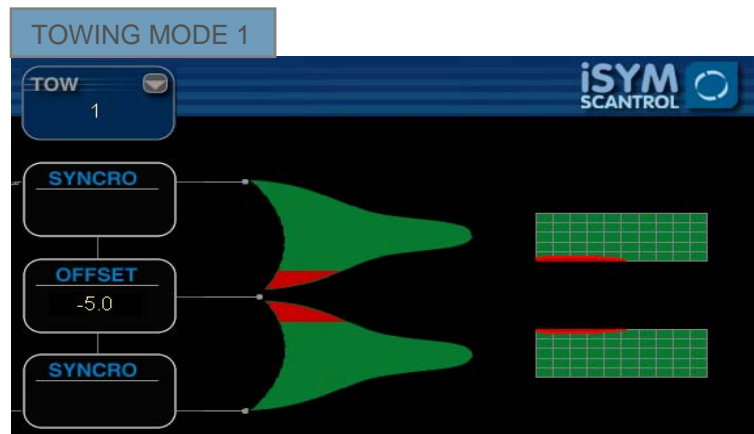
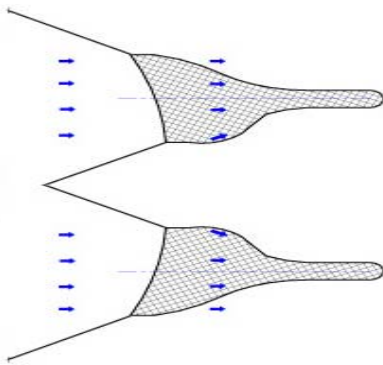
TOWING MODES		TOWING CONDITIONS						
		FLAT BOTTOM	SLOPE	ROUGH BOTTOM	LIGHT CURRENT	STRONG CURRENT	WINCH PROBLEMS	GEAR PROBLEMS
1	SYNCRO	***	*	***	**			
2	SYMMETRY CONTROL	***	***	**	***	***	**	***
3	LENGTH LOCK		**				**	
4	TENSION OFFSET			***			**	

Twin-rigging with iSYM

Symmetry Control was originally developed for single trawl, but it was not until twin-rigging started that fishermen really discovered the benefits of controlling the trawl according to the water flow. It is easy to see if one net is catching more fish, and if this is caused by how the nets are controlled. iSYM makes it easy to choose the towing mode that is most suitable for the fishing conditions and fishing gear

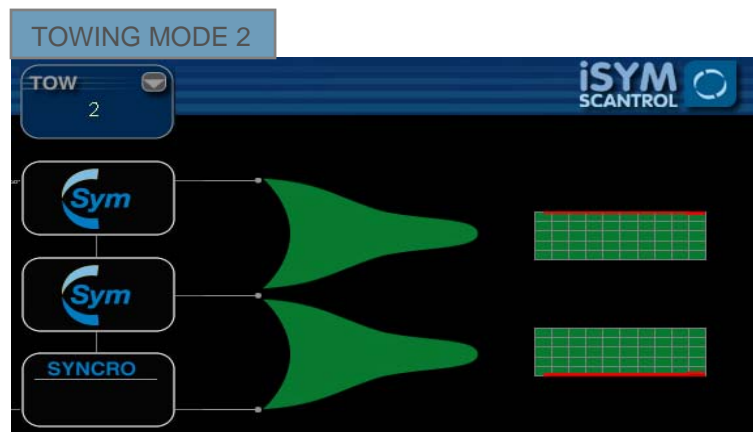
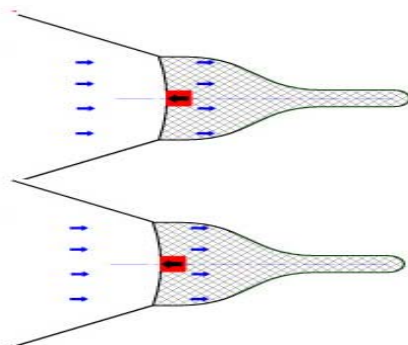
Twin-rigging in SYNCRO mode with manual centre winch offset

STB and port winches are synchronized on tension, and the skipper can set the offset length of the middle winch. If the offset length of the middle winch is not correct, both trawls will be skewed and catching efficiency is reduced.



Twin-rigging in SYNCRO mode with Automatic Symmetry Control for positioning the middle winch

STB and port winches are synchronized on tension, and the position of the middle winch is adjusted by a symmetry sensor in either STB or port trawl. In the example below, the symmetry sensor in STB trawl is controlling the middle wire.

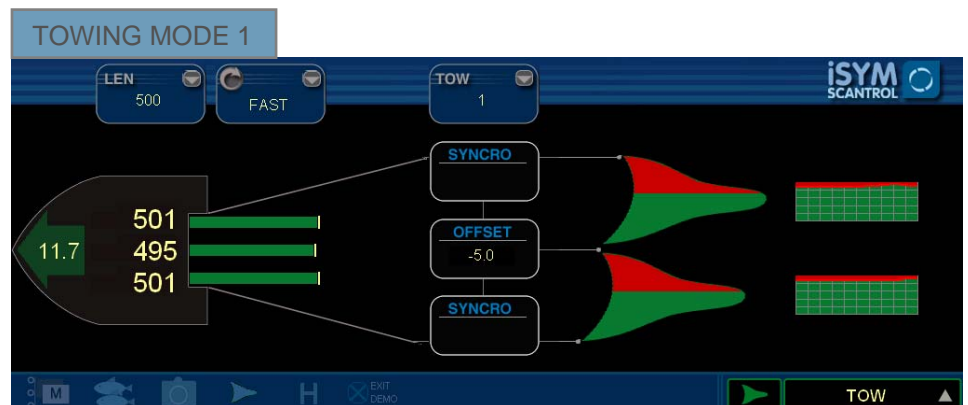


Twin-rigging along slopes

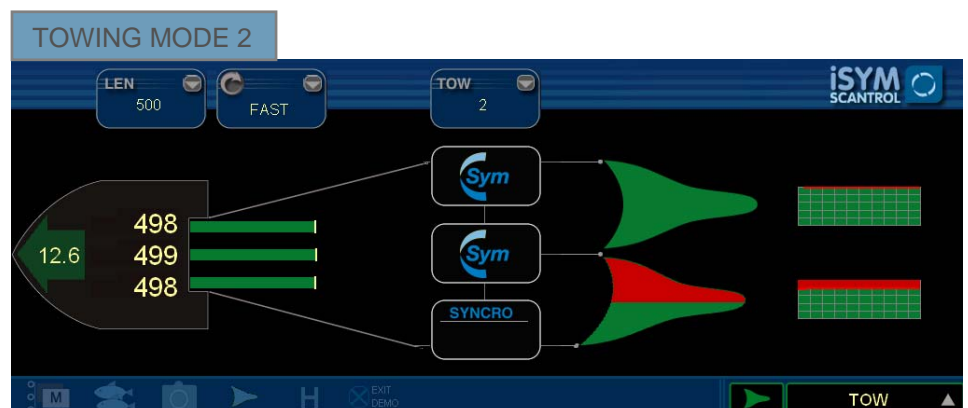
Towing along a slope in SYNCRO mode can give very undesirable results. SYNCRO keeps equal tension on the trawl doors, while you will need less tension on the lower door to make sure it has bottom contact.

Making the middle winch the master, and control each side winch individually by the water flow can significantly increase catching results.

This shows what happens when towing with SYNCRO along a slope (port side is deepest). The tension in the port wire must be lower than the STB to get the port door on the bottom. This is not possible as long as stb and port winches have equal tension (Syncro). Both nets are skewed, wasting both towing time and fuel.

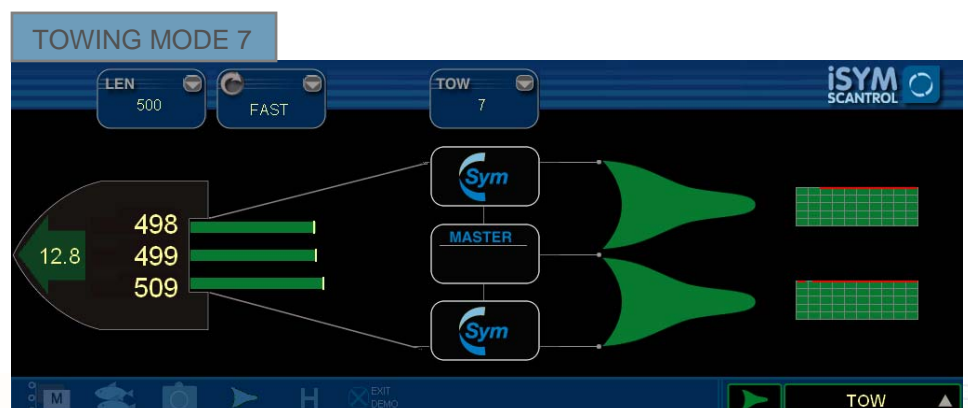


Using one symmetry sensor for controlling the middle wire does not solve this problem. The Symmetry Control will make one net square (the net with the sensor), but the other nets becomes even more skewed.



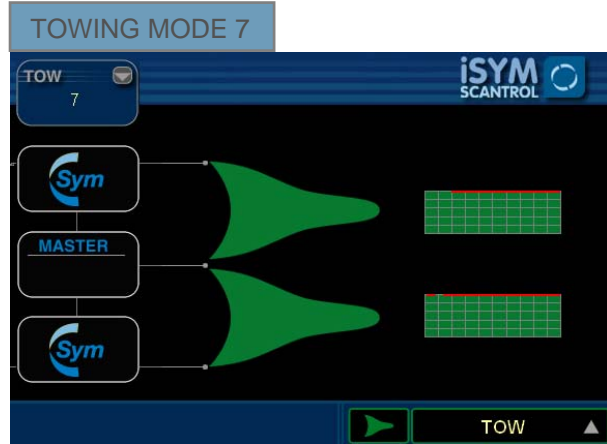
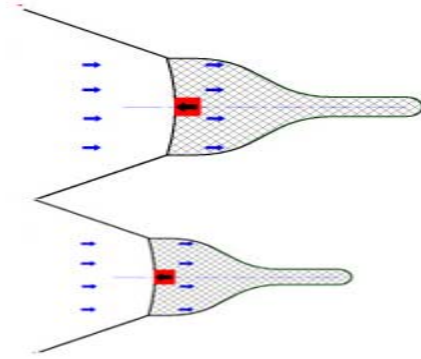
Switching off the Synchro function and making the middle winch the master solve the problem. STB and port winches are controlled automatically by one symmetry sensor in each net.

This will keep both nets symmetric in all situations. Note the wire lengths that are needed to get both nets symmetric when towing along a slope



Towing two different nets

It is possible to tow two nets of different size or different design when operating in Towing Mode 7. This can be necessary because one of the dedicated nets is damaged. It can also be very useful when experimenting with net design and materials.



Towing with winch problems

It is not uncommon that a winch problem occurs during a fishing trip. If for example one winch loses some of its power, iSYM can compensate and let you catch efficient for the rest of the trip. The iSYM log will help explain your problems to the winch service engineers. There are several towing modes that can help you out of this situation.



TWIN-RIG TOWING MODES		TOWING CONDITIONS						
		FLAT BOTTOM	SLOPE	ROUGH BOTTOM	LIGHT CURRENT	STRONG CURRENT	WINCH PROBLEMS	GEAR PROBLEMS
1	SYNCRO	***	*	***	**			
2 / 3	SYMMETRY CONTROL / SYNCRO	***	*	***	**			
7	SYMMETRY CONTROL		***	***	***	***	***	***

How does Scantrol Symmetry Control work?

Ordinary autotrawls try to keep the trawl square by keeping equal tension in the trawl wires (SYNCRO). This is easy to do with hydraulic winches: You simply connect the winches together hydraulically to get the same pull on the motors. With electric winches you will have to measure the wire tension by using load cells mounted in extra blocks on deck, and use these signals to control the winches to make the tension equal. Syncro is working well when towing in good conditions, provided the winches are working perfect and the wire spooling is good.

Scantrol Symmetry Control focuses on the trawl, working after a simple principle: The trawl is square and fishes most efficiently when the water flows directly into the opening. When the water flows straight into the opening, the water forces inside the trawl will be equally distributed, making the trawl symmetric with correct geometry. The direction of the water flow is measured with a Scanmar symmetry sensor or trawl speed sensor, and the winches are controlled automatically so that the water always flows directly into the opening of the trawl. In this way you will keep your nets square even when fishing in difficult conditions such as slopes or strong tides, and you will be less dependent on perfect winches and wire spooling. Scantrol can also control the winches in normal SYNCRO mode if the conditions are suitable for this.

Scantrol Symmetry Control is a patented system that can control all types of hydraulic and electric trawl winches. The system has control functions for single trawl, twin rig, triple trawl and pair trawl. Small boats as well as larger fishing vessels use it. Today there are over 300 systems worldwide working on trawlers from 19-120 meters.

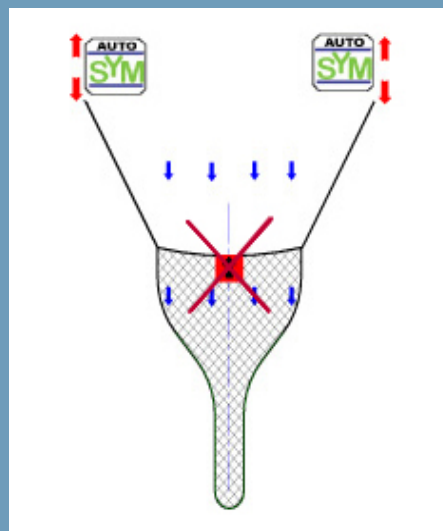
What if the symmetry sensor does not work

We know that we can not rely 100% on a cable less sensor operating in the sea, so we have designed Scantrol Symmetry Control with flexible control functions that can handle also situations where symmetry information is not available.

You can operate in different control modes:

- Standard syncro mode with equal tension
- Length or tension offset on the middle winch
- Individual tension or length control on all winches

Our next step will be to put more intelligence into our controls, so that the computer adapts the optimum settings during good hauls, so that you can repeat the good hauls on a bad day.

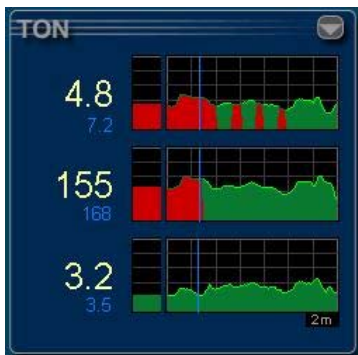


LEARN BY YOUR MISTAKES AND SUCCESSES

iSYM History let you go back in time and study what went wrong, or what you did to catch so much fish. Or you can see how the tow has developed during the last hour. Has anything changed? Or is it a stable tow? The iSYM screen allows you to look at historical data while you are towing, keeping all current information updated on the screen.

iSYM is logging all data with 1 second intervals, and keeps an updated log of the last 10 hours. In addition every haul is stored in a logfile that can be opened and monitored at any time.

You can use iSYM History to investigate a fastener.
Where did it start? How did it develop?



STB door starts snagging. After coming loose a couple of times, STB door gets real fast and pulls out wire. The middle winch follows after a few seconds



Browse through the log with the History Control



Navigation panel gives the GPS position for the fastener



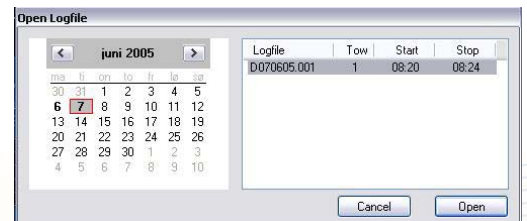
STB and CEN winches are paying out wire



Symmetry display shows that stb nets get skewed when the door starts to snag

CAPACITY:

Log buffer: 10Hours
Log Interval: 1sec
Number of logfiles: every haul



It is easy to go back and look at previous tows


SAVE THE SETTINGS THAT GIVES THE BEST PERFORMANCE

TrawlProfiles is a tool for saving settings that are changed by the operator when changing between fisheries or moving to another ground.

Create a trawlprofile when happy with gear and winch performance, and load these settings to have identical performance next time you fish at these conditions.


Quit writing down your favourite settings and create a TrawlProfiles when everything is working perfectly!

Save your favourite settings...



- Use trawlprofiles to keep optimal settings for specific gear, ground or fishery.
- Save a profile when happy with your settings.
- The TrawlProfile is labelled with your own comments.
- Three step operation:
 1. Select name for trawlprofile
 2. Write a comment for the profile
 3. Click the button "Save profile"

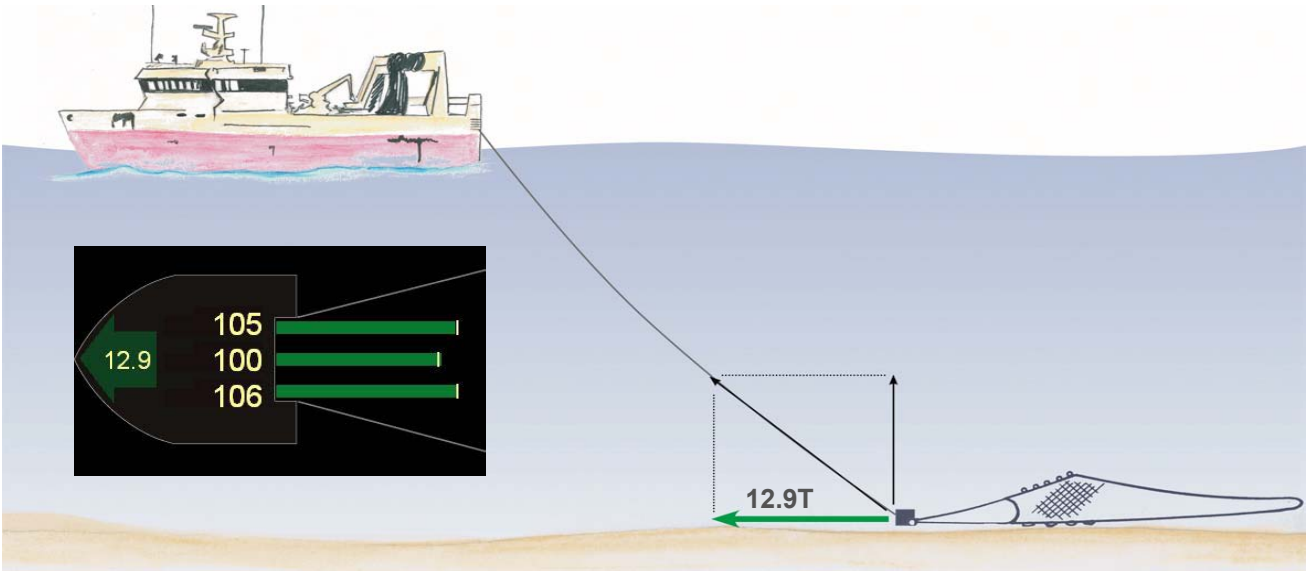
....and load them back when needed



- Load a TrawlProfile when changing gear, ground or fishery
- Pick from a list of TrawlProfiles created.
- Two step operation:
 1. Select trawlprofile
 2. Click the button "Use this profile"

TOWING TOO HARD OR TOO LIGHT? iSYM CAN HELP YOU TO ADJUST ENGINE POWER


iSYM calculates the force that is being used to pull the trawl gear through the sea. Trawl Pull is calculated from wire tensions, taking depth and door spread into account. It will not take many tows for the skipper to determine the correct Tow Pull reading, and use this as reference for adjusting the engine power when towing in changing tides and weather conditions.



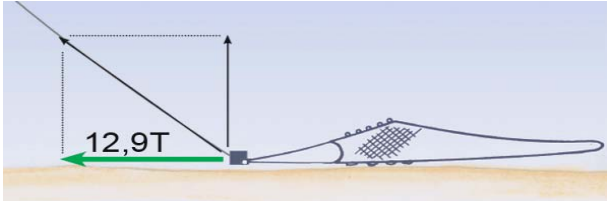



Towing too light
Tow Pull too low.
Warning to increase engine power



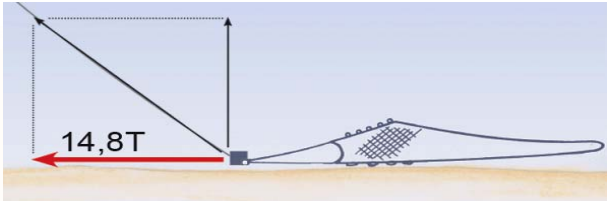


Correct Tow Pull



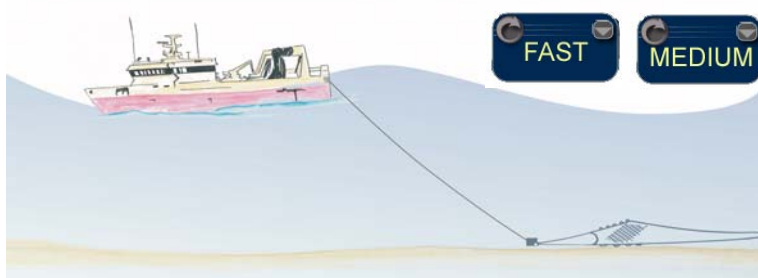


Towing too hard
Tow Pull too high.
Warning to reduce engine power



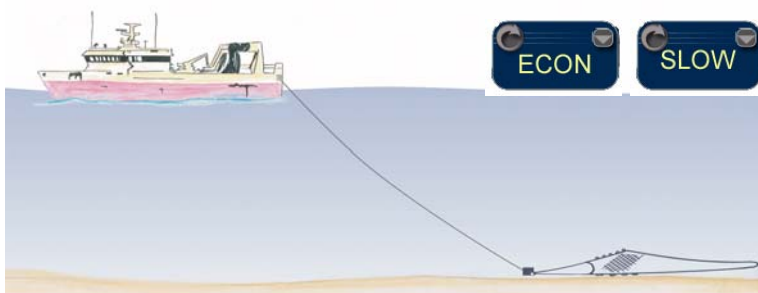
Select winch response and save fuel

iSYM has a new control function that makes it possible for the skipper to choose appropriate winch response for varying towing conditions. This will reduce the fuel consumption when the weather is good, and secure the highest catch rate when the sea gets rough



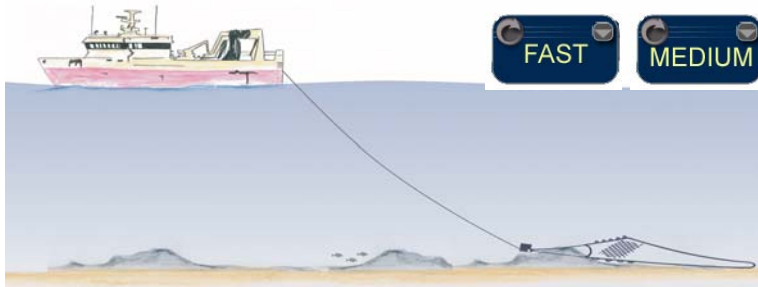
FAST or **MEDIUM** winch response is required in rough weather. The winch speed must be sufficient to compensate for vessel movement in order to keep constant pull on the trawl doors. This is important to keep up the catch rate in rough weather.

If the winch response is too slow, the vessel movement will be transferred to the trawl, and the catch rate goes down.

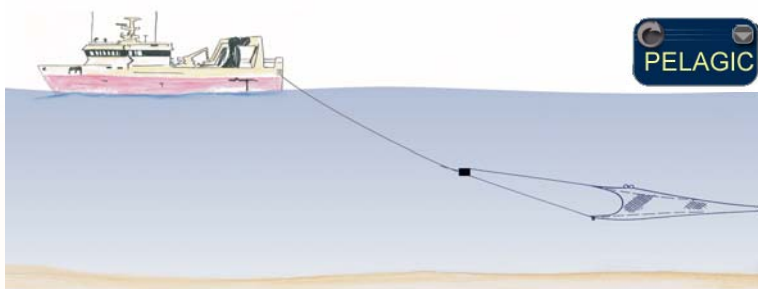


It is possible to slow down the winch response when the weather is good.

ECON mode can be used when the bottom conditions are good and the risk of a fastener is low. In **ECON** mode the winches are normally parked with the brakes on and all pumps are stopped. iSYM will run the winches automatically to correct symmetry, when turning, and when the skipper changes the wire length



It is important to have sufficient winch power available when towing on rocky bottom. Use **FAST** or **MEDIUM** response to enable the winches to withstand fasteners, and recover the net when it comes loose.

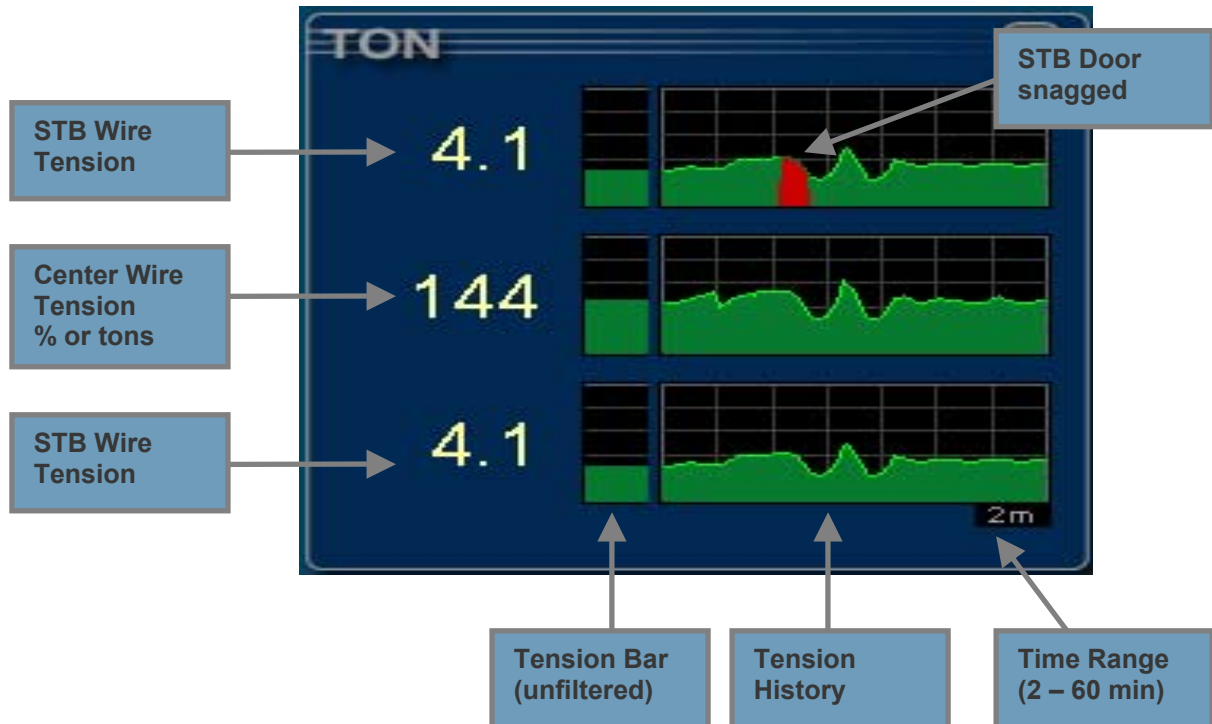


Choose **PELAGIC** mode when towing a pelagic net. This activates settings and control functions that are best suitable for pelagic fishing.

PELAGIC mode can be combined with automatic depth and water flow control.

SAFE AND EFFICIENT ON ROUGH BOTTOM

iSYM monitors winch pull and winch movement to detect when the trawl is fast on the bottom. The Snag Detector will give an early warning when a trawl door starts to snag to alert the skipper to monitor the situation. All fasteners are recorded as red marks in the graph, and it is easy to go back and see what happened, or how the situation developed.



Snag Detector can be configured to perform different automatic functions when a fastener develops. This includes engine power slow down and winch speed and tension control. Automatic functions and settings are selected according to fishing gear and bottom conditions.

The graph shows how a fastener develops.

STB door starts snagging. After coming loose a couple of times, STB door gets real fast and pulls out wire. A few seconds later, more load is transferred to the clump that pulls out the centre wire. The skipper reacts quickly, reduces engine power, and the load on the gear decreases. Engine power reduction can also be controlled automatically by iSYM Snag Detector

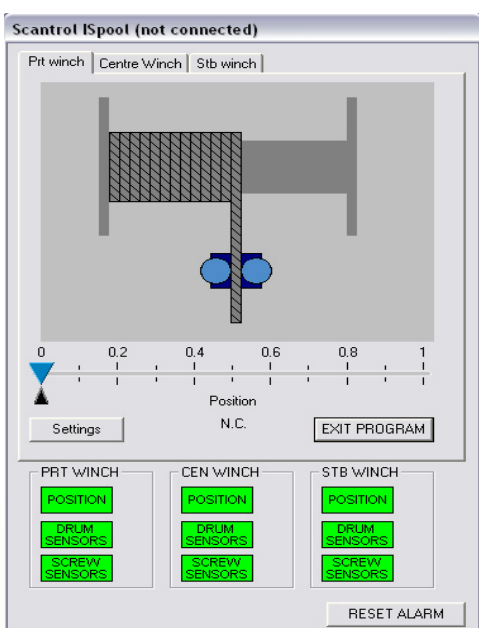


DOUBLE WIRE LIFE WITH PERFECT SPOOLING



Electronic Wire Spooling:

iSPOOL is a control system for electronic wire spooling that can be integrated in the Scantrol iSYM system. The spooling gear is computer controlled to get exact spooling even with varying wire diameter. You will save time spooling on the wires, and you can double the life time of your wires.



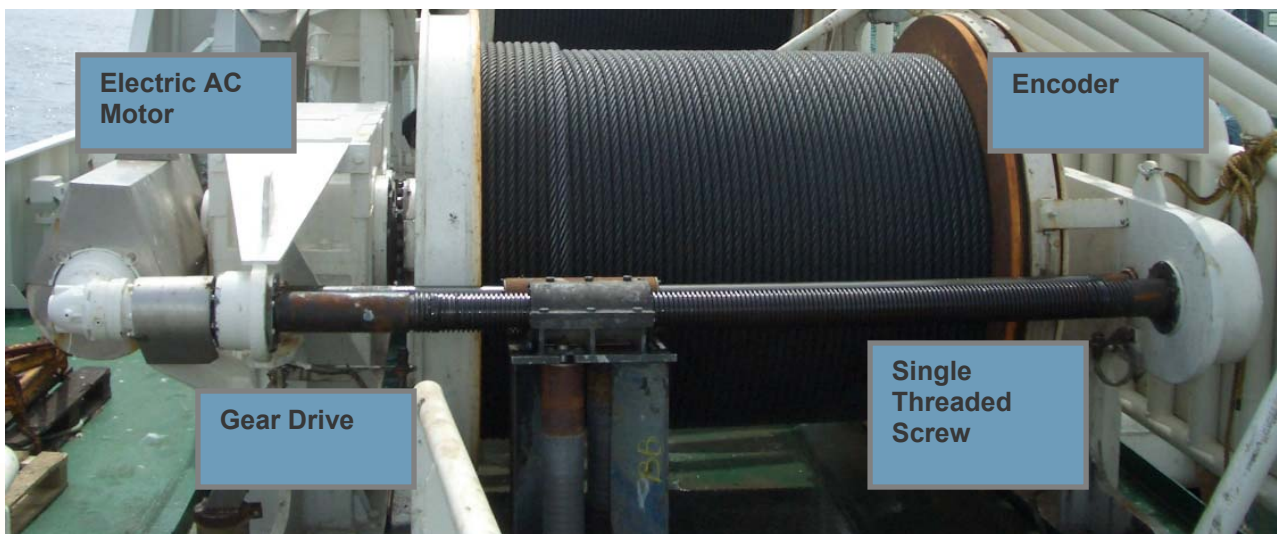
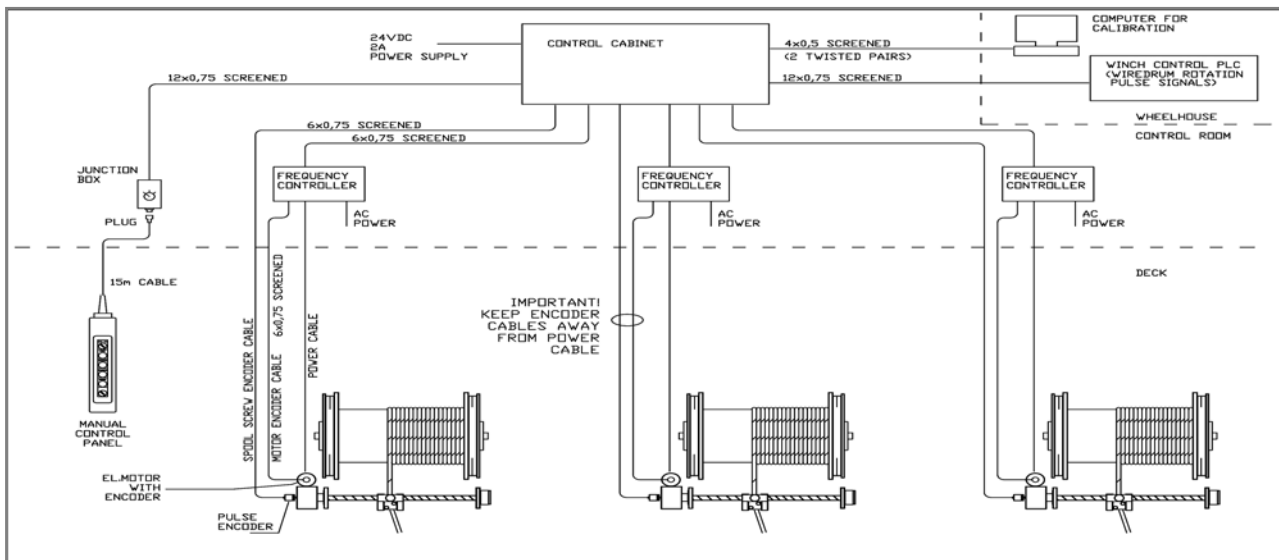
iSPOOL features

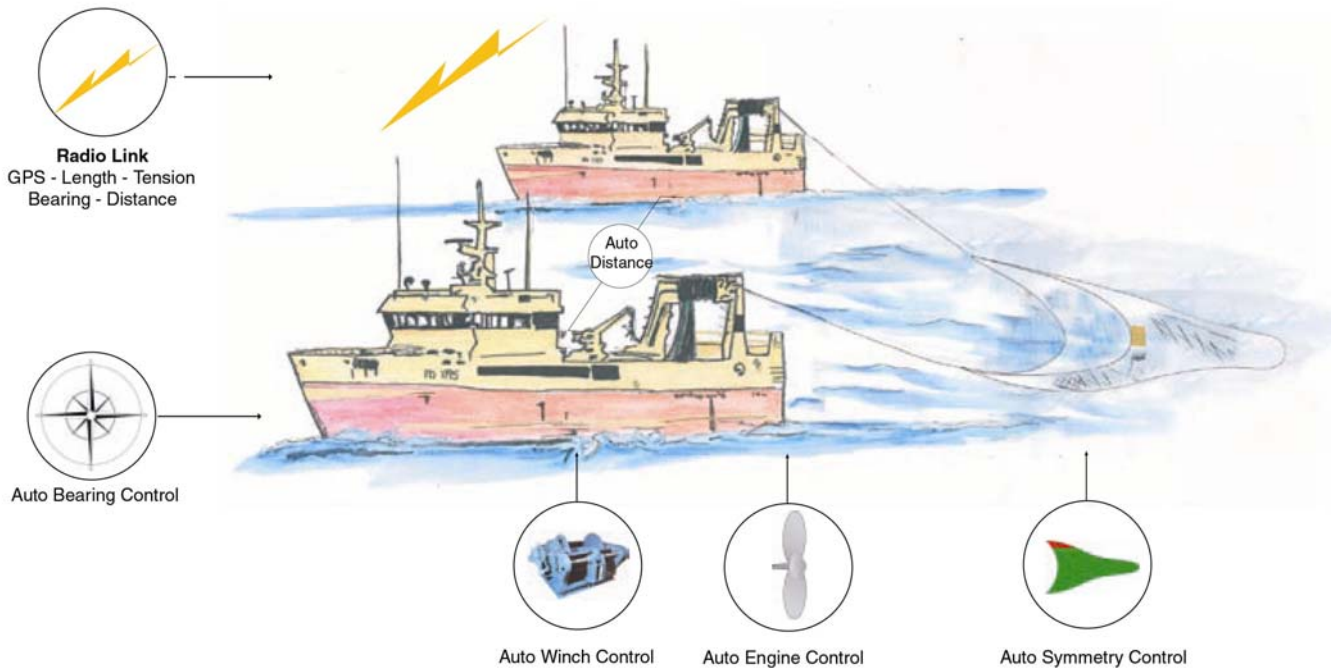
- Computer controlled wire spooling
- Programmable wire diameter
- Selectable spooling programs
- Refit to existing winches
- Simple diamond threaded screw
- Integrates in iSYM system

The picture shows one winch equipped with iSPOOL and the other with mechanical spooling gear.

iSPOOL makes it easy to program the exact wire diameter, and to choose the turn sequence that gives best spooling.

A portable control panel can be used when spooling on new wire.

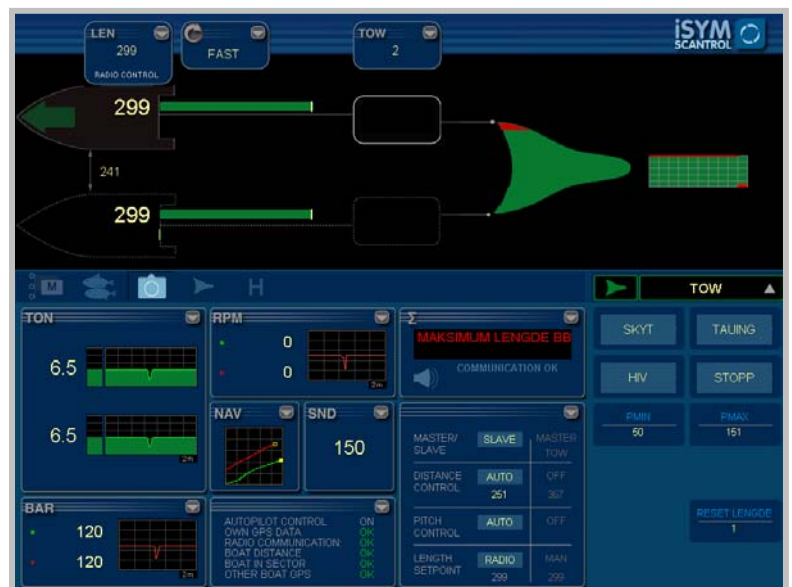




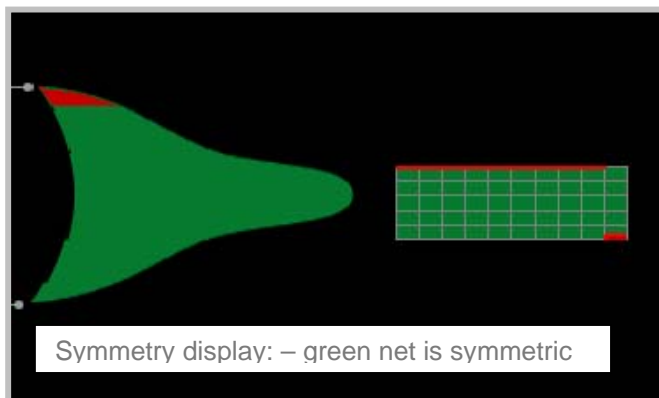
Scantrol Pairlink – Monitoring and control system for pair trawlers

Combining Scantrol iSYM with modern radio technology to give pair trawl skippers comprehensive information and possibilities for full automatic control of winches, engine power, and steering.

Information from winches and navigation data are transmitted between the ships over a coded radio link, and presented on the trawl screen on the partner ship. Interface to main engine control, propeller pitch, and autopilot are included to give the skipper the choice of having automatic control of net symmetry and vessel distance. Pairlink comes in two versions: one with full autotrawl, and one that connects to other autotrawl systems via NMEA (Pairlink LT). The system can monitor one or two winches, and can be used with bottom and pelagic trawls.



Automatic Symmetry Control



The symmetry of the net is depending on the pulling power of the two ships. The most efficient way of controlling the net symmetry is to monitor the direction of the water flow and make sure the water flows directly into the trawl opening.

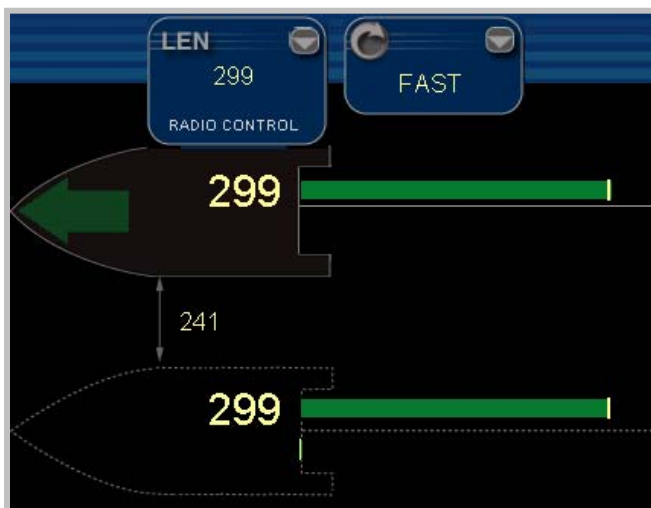
Pairlink can control the engine power automatically to keep the net symmetric by using information from a Scanmar symmetry or trawl speed sensor.

Winch Control

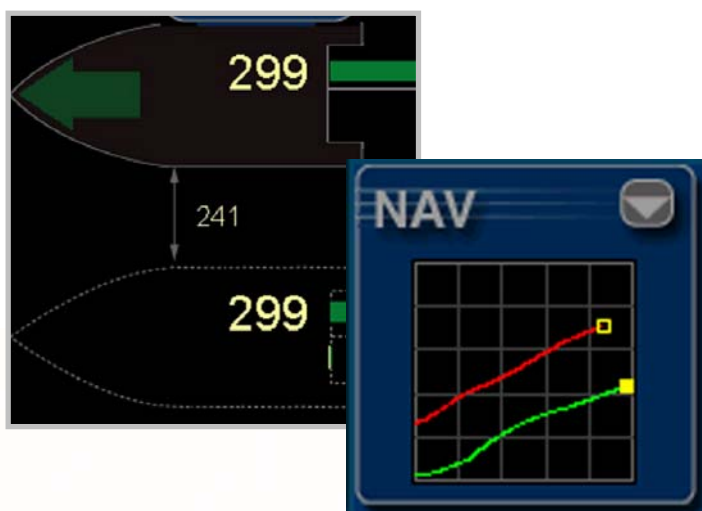
Wire lengths and wire tensions are transmitted between the two ships, and the data from the partner ship are immediately updated on the trawl screen. Also the length set points are transmitted to make it easy to see what the partner ship is doing.

The slave can choose to let the winches follow the master automatically. If the master changes the wire length, the slave's winches will follow automatically.

Pairlink can monitor and control one or two winches for both bottom and pelagic trawls.



Vessel Distance



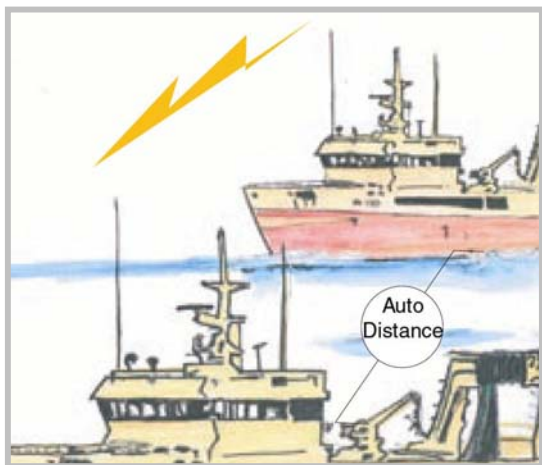
The distance between the vessels is calculated from the GPS positions transmitted over the radio link.

The distance is displayed on the trawl screen, and the vessels positions are plotted. A warning can be activated if the distance is out of limits.

Pairlink includes an interface to the autopilot to allow automatic control of the vessel distance. The slave vessel can choose to follow the master at a constant distance.

The plot shows the slave (green) adjusting the bearing automatically to increase the distance to 250 meters

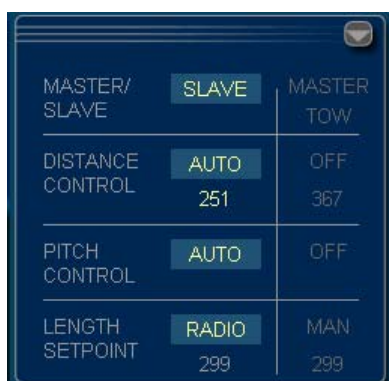
Radio Communication



Pairlink includes a coded radio link with a range of 3000 meters. The frequency is 450Mhz, and there are 20 different channels that can be used to avoid interference from other pair trawl teams.

All data are coded by the transmitter, decoded and checked by the receiver. The transmission delay is less than one second.

Master – Slave Operation



The vessel that is identified as **master** can read information from the slave vessel. The vessel that is set up to be the **slave** can read information from the master, and has the possibility to activate following automatic controls to follow the master:

- Auto Distance Control (Autopilot)
- Symmetry Control (Main engine/Pitch)
- Auto wire length control (Winch control)

Specification

Pairlink Functions	Pairlink	Pairlink LT
Full automatic winch control	X	
NMEA interface to autotrawl		X
Wire length and tension	X	X
Vessel distance monitor	X	X
Auto distance control (autopilot interface)	X	X
Auto symmetry control (engine control interface)	X	X
History	X	X
Navigation plot	X	X

Scantrol iSYM SymmetryControl for Single Trawl and Twin-rig

General

Scantrol iSYM Symmetry Control is an auto trawl system that controls all modern trawl winches. The system is developed in close collaboration with Scanmar and experienced trawl skippers – always with the trawl in focus.

Scantrol iSYM is designed to the highest quality standards to meet the reliability required by modern trawlers. The system is easy to operate, and the user interface is available in several languages.

Operation

Scantrol iSYM uses information from sensors in the trawl to control the trawl winches. The system monitors the water flow in the trawl by a symmetry or trawl speed sensor, and adjusts the wire tensions individually to get the flow of water directly into the trawl opening, and to get the net symmetric. Correct symmetry and optimum water flow is essential for the catching efficiency of your trawl. In order to get the net square it is quite common to have wire tension difference of 2-3 tons when fishing in slopes, strong tides, and in deep water.

iSYM can also operate in traditional “synchro” mode with stb and port winch synchronized on tension. This mode can be used in good fishing conditions, and as a backup mode if the symmetry sensor is not in operation.

Scantrol can control your trawl independent of the Scanmar system, but you will experience increased catches or reduced towing time if you use information from sensors on the trawl to control your nets automatically. Most skippers use one symmetry sensor for automatic control of the single trawl and two sensors for controlling the twin-rig.

References

Scantrol can control all modern electric and hydraulic trawl winches. It is in operation on more than 300 trawlers controlling winches from 30 winch manufacturers.

Scanmar connection

Scantrol SymmetryControl is the **only** system that can use information from Scanmar symmetry sensor to automatically control the trawl.

Training

Scantrol includes training on board by experienced instructors.

Upgrade

Scantrol iSYM comprises components and sensors based on newest technology. This secures reliable operation, and simple upgrade to future needs. All Scantrol systems are compatible (or can be upgraded) with future software versions.

Trouble shooting

iSYM has built in faultfinding routines to identify hydraulic or electric faults.

New functions

- ISPOOL – Electronic Wire Spooling
- SnagDetector – Detect fasteners
- History – Records trawl and winch information
- Trawl Profiles – Save settings for gear and fishing grounds

Specification

Scope of supply and system functionality are specified on following pages

Scantrol iSYM – Scope of Supply

Model	Description	iSYM-2HYW 2 WINCH	iSYM-3HYW 3 WINCH	iSYM-4HYW 4 WINCH
LD-880	iSYM Display 17 " LCD Monitor Dimmer Flush mounting	1	1	1
KB-770	iSYM Keyboard Shoot/Heave/Towing/Stop Numeric Keys Touch Pad USB Extension	1	1	1
AC-660	iSYM Computer Scanmar Interface WI-101 Interface Echo Sounder Input NMEA Navigation Input NMEA Data Output NMEA	1	1	1
WI-101	Winchinterface Mounted in electronic cabinet Inputs for pressure and length sensors Output for winch speed and winch pull valves Inputs for joysticks and aux. sensors	1	1	1
PSEN	Pressure Sensors Winch pressure and winch pull	2	3	4
LESEN	Length Sensors Pulse encoder or Proximity sensors To be mounted on winch	2	3	4
CA-iSYM	Cable Set For interconnecting all bridge units	1	1	1
SLMON	Slave Monitor Kit 17" Standard LCD Monitor Video Splitter 15 m Cable	Option	Option	Option
SLKBD	Slave Keyboard Kit KB-770 iSYM Keyboard Splitter 15 m Cable	Option	Option	Option
RLINK	Radio Link for Pair Trawlers	Option	Option	Option
ISPOOL	Electronic Wire Spooling	Option	Option	Option

Scantrol iSYM – Functions

	Measurements:	Numeric	Graph	History
	Wire Length Measurement Sensors on winch	X	X	X
	Winch Speed Measurement From length sensors	X	X	X
	Wire Tension Measurement Measured on winch drive	X	X	X
	Winch Monitoring Monitoring and alarm system for temperatures, oil level, filters, over speed.	X		X

	Automatic Shoot and Heave Functions:	
	Automatic Shoot To preset length with tension control and over speed protection. Synchronized control of up to 4 winches	
	Automatic Heave To preset stop length, with speed and tension control. Synchronized control of up to 4 winches	

	Automatic Towing Functions:	
	Tension Control Compensate for vessel movement to keep constant pull on trawl doors.	
	SnagDetector Automatic detection and pay out if the trawl hits obstructions on the sea bed.	
	Automatic Symmetry Control ***** Individual control of winch pull to keep correct water flow into the trawl. Based on input from one or more water flow sensors.	
	Towing Modes Determines how winches are controlled: Synchro mode (equal tension), automatic symmetry control or manual override. Towing modes are selected according to fishing conditions and skippers preferences.	
	Winch Sensitivity Control Select winch response according to weather conditions and skippers preferences.	
	Automatic Length Adjustment at Changing Depth Using info from echo sounder and length/depth ratio	
	Twin-Rigging with different trawls Requires two symmetry sensors	
	Automatic Depth Control For pelagic trawling	

****** Automatic Symmetry Control is protected by patents in all major fishing nations**

Other Functions:	
History Records trawl and winch data for every haul. Recorded information for current haul or previous hauls can be reviewed on the iSYM screen	
Length Lock Controls the wire lengths independent of wire tension in case of fasteners or damaged gear.	
Turn Mode 3 turn modes are available: Syncro, Active, and Auto. Select turn mode according to winch performance and type of turn	
Trawl Profiles Saves all settings for a trawl type or fishing ground for later use.	
Alarm Log Records 3000 alarms.	
Operation Log Record operating conditions and load for winches and drives	
Language iSYM user interface is available in following languages: Norwegian English Spanish French Icelandic	