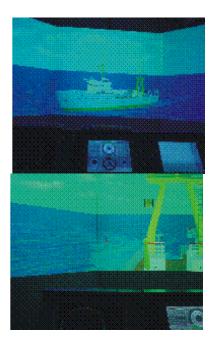
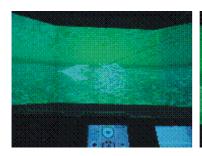
L SHIP-HANDLING BRIDGE FISHING SIMULATOR (FISHING, ARPA/RADAR, WATCHKEEPING AND NAVIGATIONAL SHIP-HANDLING)

VR-FISHING is the Professional Fishing, Navigational and ARPA/Radar simulator, allows to realize the different aspects of the education and the certification of navigators according to the requirements of International Agreements STCW 95/98 and STCW-F 95/98, as well as including:

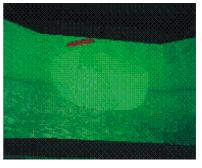
- Primary preparation in the Simulator according to the programs:
 - Observation by the Sonar and the Echosounder
 - Detection of fish bands
 - Positioning of the vessel
 - Launching of the procedure
- Special preparation in the Simulator according to the programs:
 - Observation by the ARPA/Radar and the route planning.
 - Exploitation of ARPA/Radar.
 - Electronic Chart Display and Information System (ECDIS) with a collection of officials charts in formats: S-57 ed.3.1, ARCS, BSB / NOAA, DEM.
 - Monitoring of ARPA/Radar Layer on ECDIS
 - Operations and manoeuvering of the vessel.
- The professional preparation of the navigators for fishing-ships in the simulator according to the programs:
 - Search and estimation of the fish bands using modern fishing hydroacoustic equipment.
 - Operations and maneuvering of the vessel in the fishing by the trawlnet and seine.



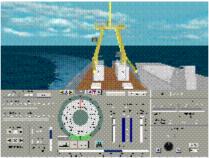








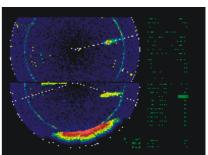




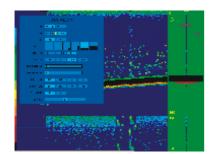


SR240 Sonar (SIMRAD):

- The frequency of work 24 kHz
- The ranges 200, 400, 800, 1200, 1600, 2400, 3200, 4800, 6400 m
- The impulse duration from 1 till 100 ms in the mono tone parcel, from 4 till 64 ms in the modulated-frequency parcel
- The width of the acoustic sector is : $12 \,^{\circ}$ x $12 \,^{\circ}$
- The width of the horizontal sector is : 12° , 90° , 180° , 360°
- The electronic slope of the sector from $+10^{\circ}$ till -90°
- The frequency of the sound indication from 689 to 1033 Hz
- The intensity of the signals image echo's by 32 nuances of color
- Nine modes of the hydroacoustic information image, including the possibility of vertical cutting image and the information from Echosounder.



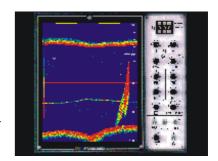
ATLAS FISCHFINDER 793 DS Echosounder (ATLAS ELEKTRONIK):



- The frequencies of work 33 and 100 kHz
- The ranges 10, 20, 50, 100, 200, 500, 1 000 m
- The ranges widened for the pelagic layer or on bottom from 6 till 120 m
- The progress of the diapason beginning: from 1 till 5 000 m
- The impulse duration from 0,15 till 10 ms
- The width of the acoustic sector is 6° x 8° or 6° x 4° on the frequency 33 kHz, 14° on the frequency 100 kHz
- The intensity of the signals image echo's by 16 color nuances
- Six modes of the hydroacoustic information image, including the possibility of inserting and ruling the window with the sweeping amplitude

CN-14A Net Sound (FURUNO):

- The frequency of work 75 kHz
- The ranges at the top 10, 60, 120, 180, 280, 400, 500, 600 m
- The ranges below 5, 10, 20, 40, 60, 120, 180, 400 m
- The impulse duration is 1 ms
- The width of the acoustic sector 28°
- The intensity of the image of signals echo's by 8 nuances of color
- Four modes of the image of the hydroacoustic information, including the possibility of the fastening at the beginning of the echo towards



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