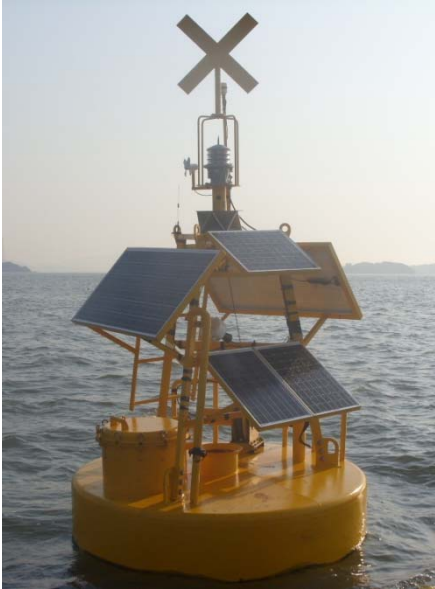


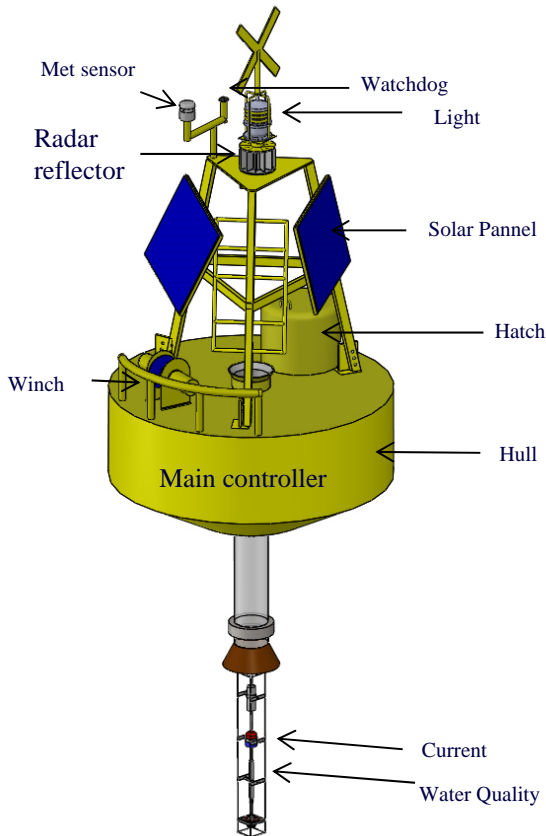
INtelligent BUoy System [OT-INBUS]



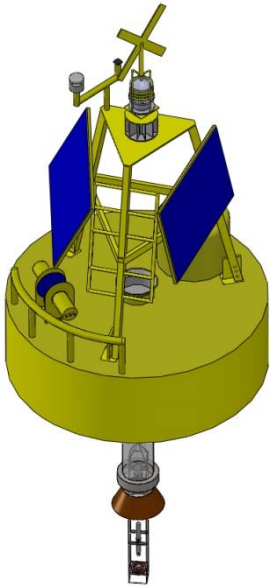
Summary

INBUS ; INtelligent BUoy System

- Unmanned Automatic vertical profiling Hyd-Met Monitoring System
- User Interface Display & Monitoring program
- Operating Interval can be set by User
- Communication can be used by CDMA, Iridium Satellite
- The system can be operated & stopped by Motion sensor automatically



센서 구분	관측항목
Met. sensor 	Wind Speed
	Wind Direction
	Air Pressure
	Air Temperature
Water Quality Idronaut 316 RBR concerto 	Temp
	Cond.
	Turbidity
	Chlorophyll (Option)
	Depth
	Oxygen(Option)
	Current



Hull

- Center Pipe design for safety mooring
- Water proof design
- Discus design for stable mooring
- Under part Ballast weigh for stable mooring

Upper part

- Ring Design for Met sensor. Light. Antenna
- Inside protecting control Box

Center HULL

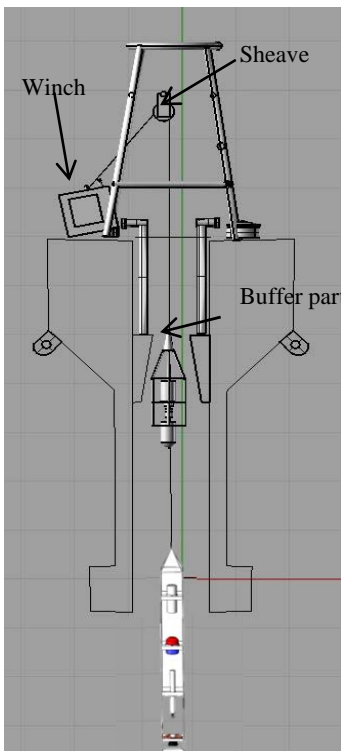
- Profiling Winch fixed side
- Battery Box is located at the opposite side from Winch for stable

Underwater

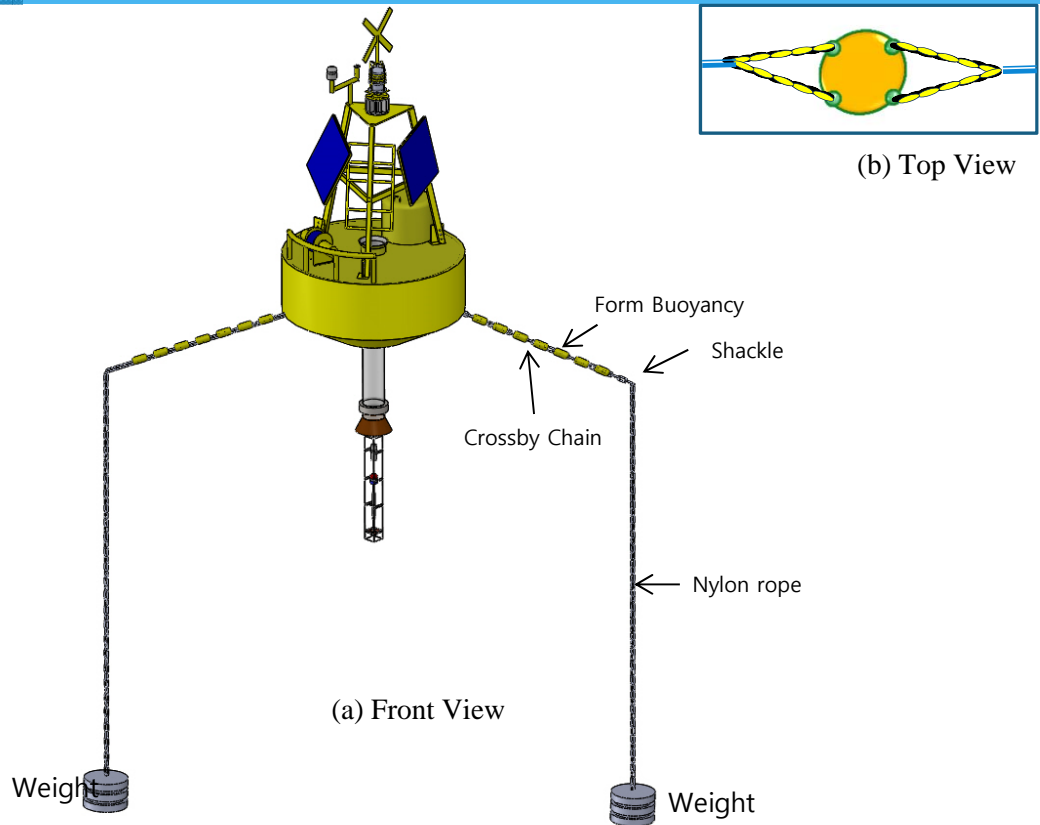
- Corn Type design for stable profiling
- Altimeter with Gimbal installation for accurate control
- Current sensor with Gimbal Installation for accurate control

Winch Profiling

- Motor & Drum combined design
- Center vertical profiling mechanism
- Buffer unit for Pipe inside
- Buffer unit can be installed & uninstalled to easy
- Electronic Brake is installed in Motor
- Low temperature grease, oil in all mechanical parts
- Bearing support at Drum



계류구성도



- Two line mooring Method for Tide current

Specification and Sensors

- Buoy Hull : Stainless Steel 316 / 304
- Weight : 3,200 Kg
- Demesion : 2.5 diameter x 5.9 m
- Marine Navigation : X Mark, Light, Radar Reflector
- Main Board & Controller, Underwater controller, Pitch & Roll controller
- Winch System : BLDC Motor, Absolute encorder, Cable Drum, Slipping, Limit switch
- Power system : Solar power
- Met. : Wind, Temp. Pressure, Solar Radiation
- Sea : Current sensor
- Water Quality : Temp., Conductivity (Salinity), Turbidity , Oxygen(option) , Chlorophyll(option)
- Others : Altimeter, GPS (Altimeter can measure Tide Curve)