



# Coastal's MacroSpec

- Description:** Coastal's MacroSpec and MacroSpec+ record and monitor tides, temperature and currents as well as directional waves, using PC Spec spectral wave software.
- Capacity:** 32MB standard  
Optional(Compact Flash Cards): 48MB, 64MB, etc.
- Housing:** **Diameter** – 5.5 in.  
**Length** – 41.5 in. (including sensor)  
**Weight** – 45 lbs. in air  
**Material** – Stainless steel and UHMW plastic housing
- Power:** User replaceable standard alkaline D cells
- Interface:** Wizard IBM PC compatible software  
ASCII data files in engineering units  
User controlled sampling parameters and sensor functions  
**Optional** *PCSpec* directional wave spectral software
- Clock:** Solid state real time, accuracy one minute per year
- Standard:** **Heading** – Falmouth Scientific Ostar Compass  
**Current Speed** – Marsh-McBirney 585 Velocity Sensor  
**Pressure, Standard** – ICS Strain Gauge  
**Temperature, Internal** – YSI Thermister
- Optional:** **Pressure, High Precision** – Paroscientific Digiquartz  
*Standard for MacroSpec+*
- Optional:** **Heading** – KVH C100 Fluxgate Compass



Coastal MacroSpec

Function	Sensor (*optional)	Range	Accuracy	Resolution	Units
Heading	FSI Ostar Compass, magnetoresistive	0°-360°	2°	.09	degrees magnetic
Current Speed	Marsh McBirney 585 Velocity Sensor, electromagnetic	+/- 300	2%	0.18	cm/s
Pressure, Standard	IC Sensors Strain Gauge, piezoresistive	30, 50, 100, 250	0.1%	12 bit	psia
Temperature	Internal YSI Thermister	-5° to 35°	0.1°	.02 typ	°C
Pressure, High Precision	*Paroscientific Digiquartz	900<	0.015%	16 bit	psia
Heading	*KVH C100 Compass Engine, fluxgate	0°-360°	0.5	0.24	degrees magnetic