Ocean Surveyor Command Quick Reference Card

Ocean Surveyor Input Command Summary

	Command	Description
Misc.	?	Shows Command Menu
	<BREAK>	Interrupts or wakes up Ocean Surveyor and loads last settings used
	V	Display banner
Bottom Track	BAnnn	Amplitude Threshold (0 to 255 counts)
	BCnnn	Correlation Threshold (0 to 255 counts)
	BEnnnn	Error Velocity Threshold (0 to 9999 mm/s)
	BPn	Bottom-Track Pings (0 = disable, 1 to 999 = number of pings)
	BXnnnn	Maximum Tracking Depth (0 to 9999 dm)
Control	CBnnn	Serial Port Control (Baud Rate/Parity/Stop Bits)
	CFabcde	Flow Control (a = ensemble cycling, b = ping cycling, c= binary/ASCII, d = serial port, e = not used)
	CK	Keep Parameters as User Defaults
	CRn	Retrieve Parameters (0 = User, 1 = Factory)
	CS	Start Pinging
	CXn,n	Trigger Mode (In, Out)
Environment	EA±nnnnn	Heading Alignment (-179.99 to 180.00)
	ECnnnn	Speed of Sound (1400 to 1600 m/s)
	EDnnnnn	Depth of Transducer (0 to 65535 decimeters)
	EEnnnn nnnn	Attitude Data Output and Interpolation
	EF±nn	External Pitch/Roll Factor (-99 to 99)
	EHnnnnn,n	Heading Angle (heading (-179.99 to 180.00); frame (0 = instrument coordinates, 1 = ship coordinates))
	EI±nnnnn	Roll Misalignment Angle (-179.99 to 180.00)
	EJ±nnnnn	Pitch Misalignment Angle (-179.99 to 180.00)
	EP±nnnn, ±nnnn,z	Tilts (pitch (-179.99 to 180.00), roll (-179.99 to 180.00), frame (0 = instrument coordinates, 1 = ship coordinates))
	ESnn	Salinity (0 to 40 parts per thousand)
	ET±nnnn	Temperature (-5.00 C to +40.00C)
	EUn	Orientation (0 = Down, 1 = Up)
	EV±nnnnnn	Heading Bias (-179.99 to 180.00)
	EXnnnnn	Coordinate Transformations
	EZnnnnnnn	Sensor Source (c; d; h; p; r; s; t, u); (0 = manual, 1 = transducer, 2 = synchro)
Fault	LC	Clear Fault Log
	LD	Display Fault Log
	LL	Display Fault List
Narrow Bandwidth Water Profiling	NAnnn	False Target Amplitude Threshold (0 to 255 counts)
	NDabc def ghi	Data Out (a = velocity, b = power, c = echo intensity, d = percent good, e = status f to i = reserved)
	NEnnnn	Error Velocity Threshold (0 to 9999 mm/s)
	NFnnnn	Blanking Distance (0 to 9999 cm)
	NNnnn	Number of bins (0 to 128 bins)
	NPnnn	Number of Pings (0 to 999 pings)
	NSnnnn	Bin Size (1600 to 6400 cm for 38kHz, 800 to 3200 cm for 75kHz, 400 to 1600 cm for 150kHz)
Performance	PA	Runs Built-In tests
	PCn	Show Sensor Data (0 = help, 2 = sensor data)
	PDn	Data Stream Select (n = 0)
	PSn	Display System Parameters (0 = Sys Configuration, 1 = fixed leader, 2 = variable leader, 3 = reserved, 4 = ping sequence)
	PTn	Diagnostic Tests (0 = help, 3 = receive path, 5 = electronic wrap around, 6 = receive bandwidth)
Timing	TC	System Timer Value
	TEhh:mm:ss.ff	Time per Ensemble (hh = hours, mm = minutes, ss = seconds, ff = hundredths of seconds)
	TPmm:ss.ff	Time Between Pings (mm = minutes, ss = seconds, ff = hundredths of seconds)
	TSyymmddhhmmss	Set System Date and Time (Year/Month/Day, Hour: Minute: Second)

	Command	Description
Broad Bandwidth Water Profiling	WAnnn	False Target Amplitude Threshold (0 to 255 counts)
	WCnnn	Correlation Threshold (0 to 255 counts)
	WDabc de0 000	Profile Data Out (a = Velocity; b= Correlation; c = Intensity; d = percent good, e = Status)
	WEnnnn	Error Velocity Threshold (0 to 9999 mm/s)
	WFnnnn	Blanking Distance (0 to 9999 cm)
	WNnnn	Number of bins (1 to 128 bins)
	WPnnn	Number of Pings (0 to 999 pings)
	WSnnnn	Bin Size (80 to 6400 cm for 38kHz, 40 to 3200 cm for 75kHz, 20 to 1600 cm for 150kHz)
	WVnnn	Ambiguity Velocity (0 to 390 cm/s)

ADCP Factory Defaults (Highlighted commands should typically remain at the factory default value)

COMMAND	38.8 kHz	75 kHz	150 kHz
BAnnn	20	20	20
BCnnn	220	220	220
BEnnnn	1000	1000	1000
BPnnn	1	1	1
BXnnnn	20000	10000	05000
CBabc	411	411	411
CFabcde	11110	11110	11110
CXn,n	0,0	0,0	0,0
EA±nnnnn	0	0	0
ECnnnn	1500	1500	1500
EDnnnnn	0	0	0
EEnnnnnn	111111	111111	111111
EF±nn	1	1	1
EH±xxxx,y	0,0 (Stationary) 0,1 (Vessel)	0,0 (Stationary) 0,1 (Vessel)	0,0 (Stationary) 0,1 (Vessel)
EI±nnnnn	0	0	0
EJ±nnnnn	0	0	0
EP±xxxx, ±nnnn,z	0,0,0 (Stationary) 0,0,1 (Vessel)	0,0,0 (Stationary) 0,0,1 (Vessel)	0,0,0 (Stationary) 0,0,1 (Vessel)
ESnn	35	35	35
ET±nnnn	2100	2100	2100
EUn	0	0	0
EV±nnnnn	0	0	0
EXnnnnn	00000	00000	00000
EZnnnnnnn	1011101	1011101	1011101
NAnnn	255	255	255
NDnnnnnnnnn	111110000	111110000	111110000
NEnnnn	1000	1000	1000
NFnnnn	1600	800	400
NNnnn	050	050	050
NPnnn	000	000	000
NSnnnn	3200	1600	800
PDn	0	0	0
TEhhmmssff	00000000	00000000	00000000
TPmmssff	000300	000200	000100
WAnnn	255	255	255
WCnnn	120	120	120
WDnnn nnn nnn	111 110 000	111 110 000	111 110 000
WEnnnn	1000	1000	1000
WFnnnn [min]	1600	800	400
WNnnn	128	128	128
WPnnn	1	1	1
WSnnnn	3200	1600	800
WVnnnn	390	390	390