Trigger (sync) settings

RDI os150 Data Collection Parameters

Cruise Setup
Cruise ID: Suuuu

Start Cruise

End Cruise

Data Recording

Start Recording

Stop Recording

Command	Range	New	Present
Narrowband Mode	ON or OFF	ON	ON
NB Number of Bins	5 to 128	60	60
NB Bin Length (m)	4 to 16	8.0	8.0
NB Blanking (m)	2 to 90	4.0	4.0
Broadband Mode	ON or OFF	OFF	OFF
BB Number of Bins	5 to 128	80	80
BB Bin Length (m)	2 to 16	4.0	4.0
BB Blanking (m)	2 to 90	4.0	4.0
Bottom Track	ON or OFF	OFF	OFF
BT max depth (m)	50 to 700	500.0	500.0
TP min ping time (s)	0 to 6	01.10	01.10
Trigger in,out[,timeout]	[timeout 120-43200]	0,0	0,0

Restore Defaults

Load File

Save File

Commands
NP1
NN60
NS800
NF400
WP0
WN80
WS400
WF400
BP0
BX5000
TP00:01.10
CX0,0

☺

Defaults for UHDAS: NO TRIGGER

01.10	01.10
0,0	0,0

UHDAS notes about triggering:
Ocean Surveyor: BB or NB only (not interleaved, and not BT) for KSync, start UHDAS quickly or it will time out

Common triggering settings

TP min ping time (s)	0 to 6	0.00	01.10
Trigger in,out[,timeout]	[timeout 120-43200]	1,1	0,0

TP min ping time (s)	0 to 6	0.00	01.10
Trigger in,out[,timeout]	[timeout 120-43200]	1,3	0,0

CX – Trigger Input/Output

Purpose — The Trigger Input allows the Ocean Surveyor to be pinged by an external +5V logic level signal.

Format — CXa,b,c

Range —
a = 0 to 5
b = 0 to 5
c = 120 to 43200 seconds (0 = disable)

Default — CX0,0,0

💬 **Recommended Setting.** The default setting for this command is recommended for most applications.

Descriptions — The minimum duration for the Trigger Input is 1 ms. The Input resistance is at least 2.7k Ohm. The Trigger Output is a +5V logic level signal as well. The nominal source resistance of the Trigger Output is 50 Ohms. The command that controls the Trigger Output and Input is CXa,b, where "a" controls the Trigger Input mode, and "b" the Trigger Output mode. For flexibility, several modes for the Trigger Input and Output operation have been implemented. See Table 29 for a description of the command.

The third parameter "c" is a timeout value in seconds.