

# KINETIX

## RESEARCHER EDITION

Suited for naval architects and shock  
and vibration consultants concerned  
with post-transit analysis.



## RESEARCHER EDITION COMPONENTS

**Processing Unit** Seat-mounted or standalone

**On-board data storage** 1000+ hours

**Accelerometer** Triaxial

**Data acquisition rates** Up to 1kHz



**SYSTEM PROCESSING  
UNIT  
(SPU)**

+



**DIGITAL  
LOG BOOK  
(DLB)**

+



**DECK ACCELERATION  
UNIT  
(DAU)**



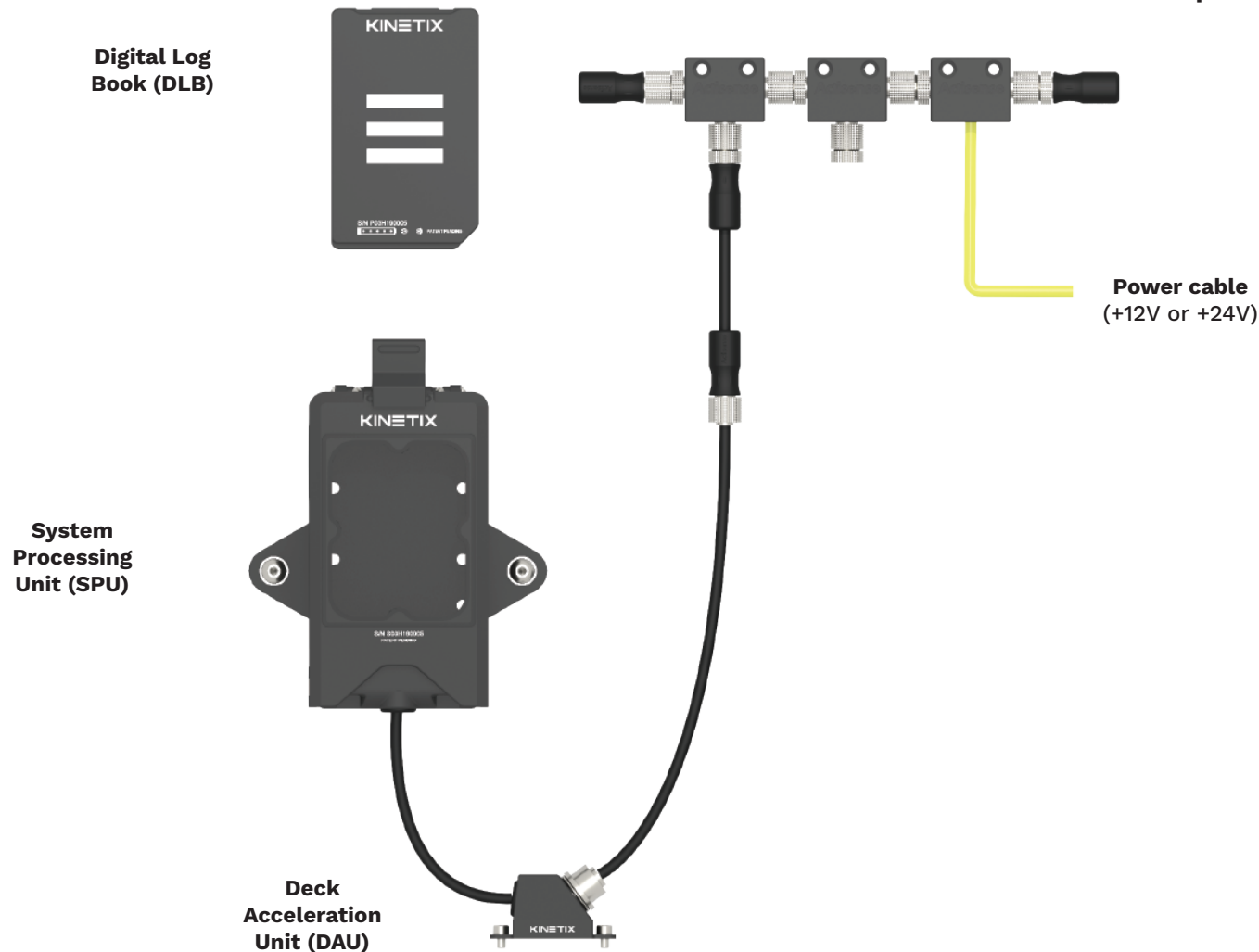
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## SYSTEM PROCESSING UNIT (SPU)

The System Processing Unit (SPU) is an IP68 housing to protect the data logbook. It also functions as a system computer and contains a seat accelerometer.

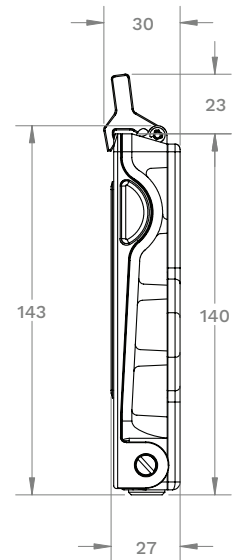
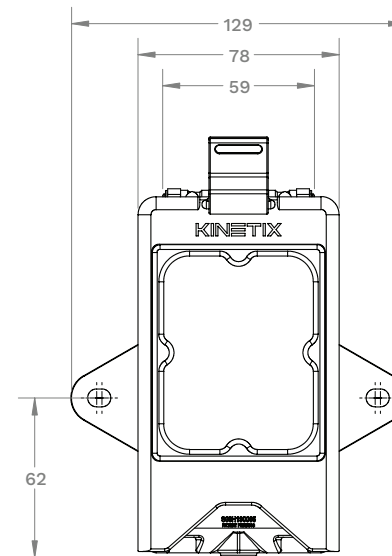
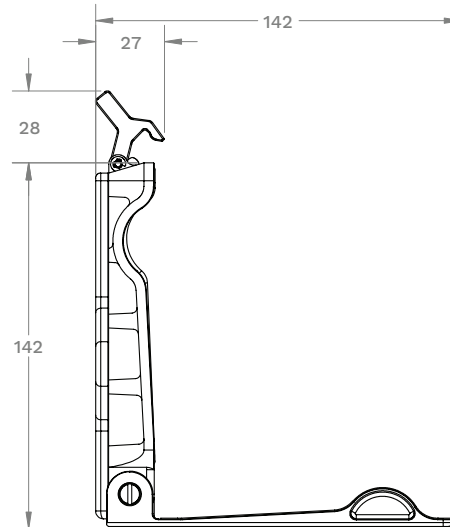
It is typically permanently mounted to a shock mitigating suspension seat.



KINETIX System Processing Unit (SPU)



Seat placement (for illustration only, seat types may vary)





## DIGITAL LOG BOOK (DLB)

The DLB records occupant and vessel data. The DLB fits into the SPU, and is easily removed for data download or charging.

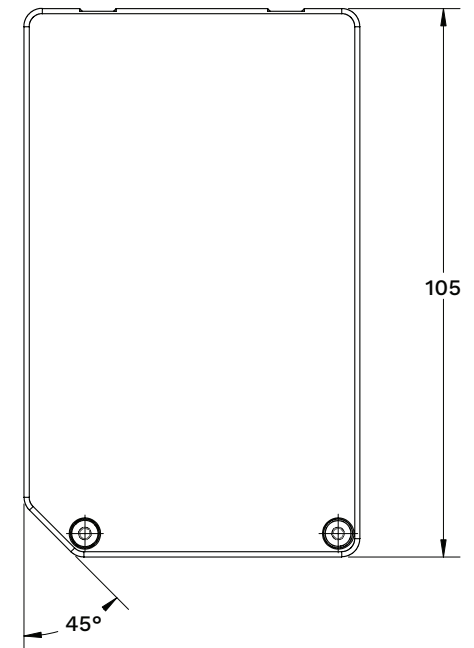
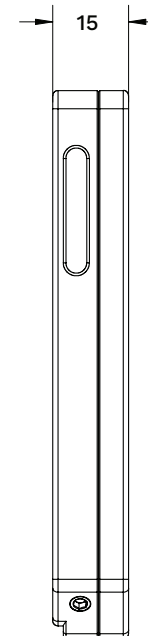
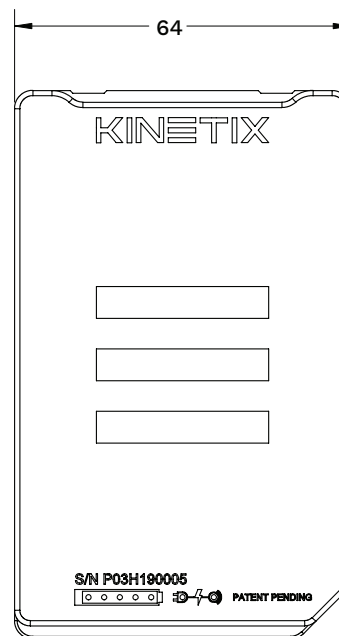
The DLB also powers the Kinetix system. It is rechargeable and IP68 rated. The DLB is not required for all applications, only when data recording is desired.



KINETIX Digital Log Book (DLB)



Seat placement (for illustration only, seat types may vary)

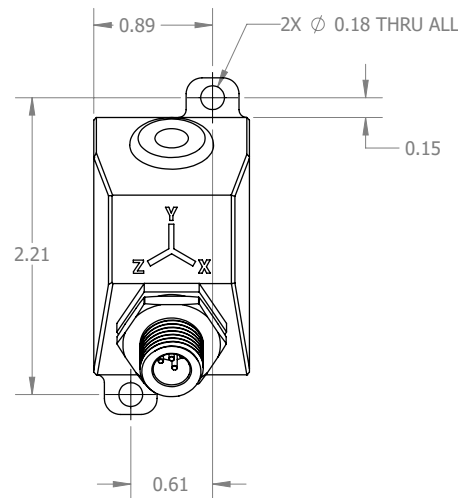




## DECK ACCELERATION UNIT (DAU)

The Deck Acceleration Unit (DAU) measures accelerations acting on the vessel.

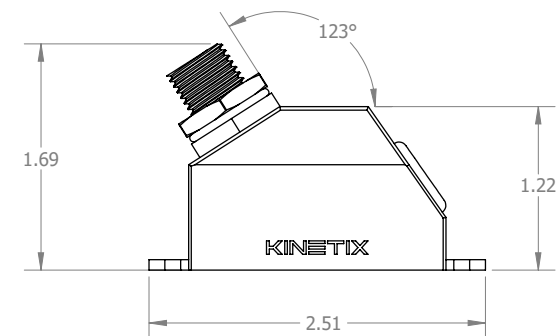
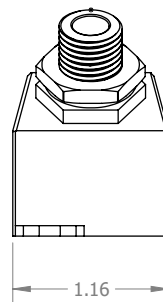
It is typically permanently or semi-permanently mounted to a fixed point on the vessel.



Deck Acceleration Unit (DAU)



Seat placement (for illustration only, seat types may vary)





## ADDITIONAL DISPLAY OPTIONS

\*Both options require a Bluetooth-connected  
Digital Log Book



The KINETIX application is available through the Raymarine LightHouse application store for the Axiom series. KINETIX also displays on most other Android-powered devices.



The KINETIX application can be displayed on a Smartwatch for individualized reporting and physical alerts (i.e. vibration or sound).



## KINETIX SPECIFICATIONS

**Processing Unit** Seat-mounted or standalone

**On-board data storage** 1000+ hours

**Accelerometer** Triaxial

**Data acquisition rates** Up to 1kHz

Acceleration	Data Storage	Power
Tri-axial X, Y, Z with gyro	64 GB flash memory	6000 mAh LiPo battery
Up to 1 kHz recording	Up to 2000 hours logging	100 hours active logging
+/- 30 g range	7+ data channels	6+ months standby mode
1 mg resolution	Real-time clock stamped	12-24 V power input