M1+³

SETTOP

EXPANDS THE POSSIBILITIES OF SETTOP M1 TO 2D OR 3D POSITIONING. CONNECT AND CONTROL EXTERNAL SENSORS.

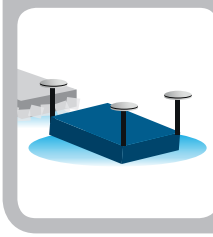
CHECK THE REAL-TIME POSITION (HEADING, PITCH AND ROLL) OF YOUR SYSTEM VIA AN INTERNET CONNECTION.

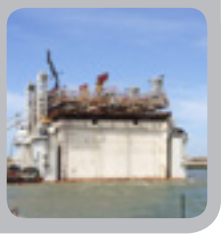
IST connect SETTOP

CHARACTERISTICS

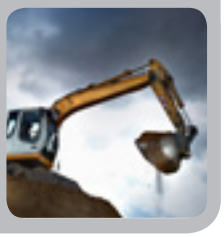
- Up to 3 GNSS receivers Full RTK or heading
- CAN BUS
- 3 x RS232 ports. 3 x USB ports. Ethernet
- DC power output control

PRECISE PLATFORM POSITIONING (3P)

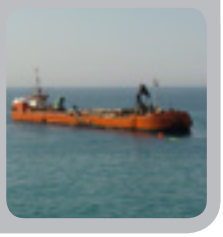




MACHINE CONTROL 2D/3D



PONTOON (BOAT)



The **Settop M1+³** is a powerful accessory for Settop M1 that increases the possibilities for many types of applications (Machine Control, guidance, dredging, pontoon (boats), precise platform positioning, etc). The new system is flexible, rugged, light, and can easily be carried from site to site.

The **Settop M1+³** CAN BUS allows synchronization of external sensors, uses up to 3 GNSS antennas and increases x 6 the number of COM ports (RS232, USB) Ethernet and Power Control. The **Settop M1+³** could be configured and controlled via the internet.

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SETTOP

SETTOP M1+3

This product **only works with Settop M1**. **Add these characteristics** to your Settop M1 unit.

COMMUNICATION PORTS	
RS232	x 3 (Lemo 7-pin)
CAN BUS	x 1 (Lemo 7-pin)
USB Host	x 3 (Lemo 7-pin)
Ethernet	x 1 (RJ45)
Antenna	x 2 TNC connectors
Power in	Lemo connectors
SIZE AND WEIGHT	
Size	142 x 135 x 47 mm
Weight	400 g.
ELECTRICAL AND OPERATING REQUIREMENTS	
External Power	12V - 30V DC
Operating temperature	-40º to 75º C
Storage temperature	-55º to 85º C
Dust	IP67
Power	9,8 W

GPS (2x or 3x depends on installed options)

- 220 Channels (2x or 3x depends on installed options)
  - GPS: L1 C/A, L2E, L2C, L5
  - GLONASS: L1 C/A, L2 C/A
  - Galileo: E1, E5A, E5B, E5AltBOC
  - QZSS: L1 C/A, L1 SAIF, L2C, L5
  - SBAS: L1 C/A, L5
  - BeiDou: B1, B2
- Advanced GNSS Technology chip.
- High precision multiple correlator for GNSS pseudorange measurements.
- Unfiltered, unsmoothed pseudorange measurement data for low noise, low multipath error, low time domain correlation and high dynamic response.
- Very low noise GNSS carrier phase measurements with <1mm precision in a 1Hz bandwith.
- Low elevation tracking technology

POSITIONING SPECIFICATIONS

Mode	Accuracy	Latency	Max. Range	
Single Baseline	0.008m+1ppm Hz	<20ms	50Hz	
RTK (< 30Km)	0.015m+1ppm Vt	<20ms	50Hz	
DGNSS	0.25m+1ppm Hz 0.50m+1ppm Vt	<20ms <20ms	50Hz 50Hz	
SBAS	0.50m Hz 0.85m Vt	<20ms	50Hz	

RTK initialization time: ..... typically < 10 s.
RTK initialization reliability: 99.9%

HEADING, ROLL/PITCH SPECIFICATIONS

Baseline	Heading (Accuracy)	Roll/Pitch (Accuracy)	Max. Range	
2m	0.09º	0.18º	20Hz	
10m	0.05º	0.10º	20Hz	

OPTIONS

Settop M1+2	1x GNSS Board (Full RTK or Heading)
Settop M1+3	2x GNSS Boards (Full RTK or Pitch and Roll)

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