

SureShot™ Surface Systems & Components

SureShot-MWD

APS's SureShot family includes our modular approach to building MWD decoding and logging systems according to your business's changing needs.

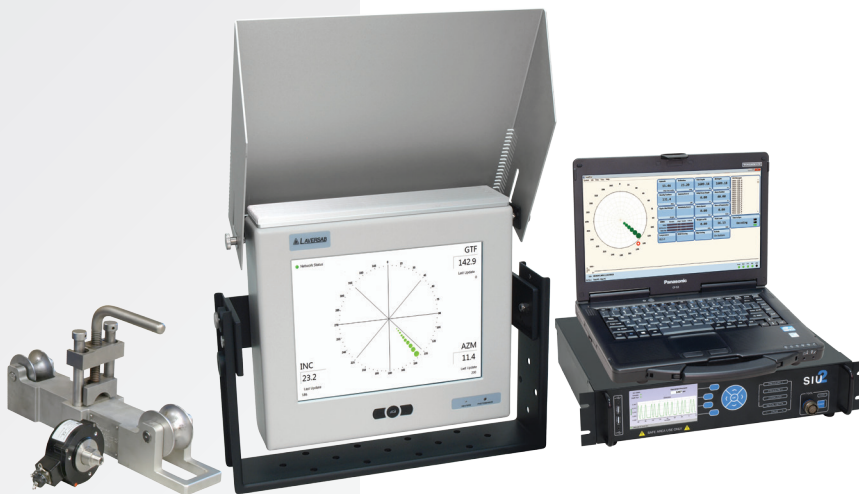
The base model of our expandable SureShot surface system is the Sensor Interface Unit 2 (SIU 2) which includes everything needed to measure, filter, decode, display, store, retrieve, transmit and remotely access data for basic survey jobs. A separate PC and rig floor display can be added when needed for full directional MWD capability, and a depth-tracking system (DTS) SIU 2 retrofit and Printrex plotter can be added for LWD service when required. SureShot's intuitive, menu-based operating system allows you to lock-out some parameter changes while allowing the field engineer to still make necessary adjustments on the job. SureShot systems are available in both "ruggedized" and "lite" versions.

Application	MWD Tool	Gamma Sensor	SIU 2	SIU 2 with DTS Option	PC* with SureShot Software	Printrex Plotter	Rig Floor Display	Surface Sensors**		
								Pressure	Hook Load	Depth
Survey-on-connection	✓		✓					✓		
MWD	✓		✓		✓		✓	✓		
Gamma / LWD	✓	✓		✓	✓	✓	✓	✓	✓	✓

* Server ("Ruggedized") or laptop ("Lite")

** Intrinsic® barriers provide an intrinsically safe connection to all surface sensors which connect to the SIU 2 in a nonhazardous environment.

✓ = required

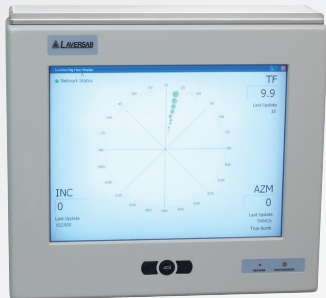


Standard APS Surface System

SureShot™ Surface Systems & Components

Product Specifications

Surface System		
SIU 2 & Plotter General Specifications		
Electrical Requirements	100 - 240 VAC, 50 - 60 Hz, 13 W	
Operating Temperatures	32° to 158°F	0° to 70°C
Storage Temperatures	14° to 185°F	-10° to 85°C
"Ruggedized" System		
Directional	Case - 19 in. EIA Standard 17 in. (h) x 27 in. (w) x 34.25 in. (d) Weight - 119 lb	Case - 483 mm EIA Standard 482 mm (h) x 686 mm (w) x 870 mm (d) Weight - 54.0 kg
Directional & Depth Tracking	Case - 19 in. EIA Standard 17 in. (h) x 27 in. (w) x 34.25 in. (d) Weight - 119 lb	Case - 483 mm EIA Standard 482 mm (h) x 686 mm (w) x 870 mm (d) Weight - 54.0 kg
"Lite" System		
Directional	3.5 in. (h) x 19 in. (w) x 16 in. (d) Weight - 12 lb plus laptop	89 mm (h) x 483 mm (w) x 406 mm (d) Weight - 5.4 kg plus laptop
Directional & Depth Tracking	3.5 in. (h) x 19 in. (w) x 16 in. (d) Weight - 12 lb plus laptop	89 mm (h) x 483 mm (w) x 406 mm (d) Weight - 5.4 kg plus laptop
Printrex Plotter		
	7.25 in. (h) x 22 in. (w) x 20 in. (d) Weight - 37 lb	184 mm (h) x 559 mm (w) x 508 mm (d) Weight - 16.8 kg
Rig Floor Displays		
Standard	Certified Zone 1 Division 2; 9 in.; wireless -4° to 140°F (-20° to 60°C) operating; -40° to 167°F (-40° to 75°C) storage	
Low-temperature	Certified Zone 1 Division 2; 15 in.; wired/wireless -40° to 122°F (-40° to 50°C) operating; -40° to 167°F (-40° to 75°C) storage	
Surface Sensors		
Pressure Transducer	4 - 20 mA current loop; certified intrinsically safe Class 1 Division 1, Class 1 Zone 0 -40° to 250°F (-40° to 121°C) operating; -67° to 302°F (-55° to 150°C) storage	
Hook Load Sensor	4 - 20 mA current loop; certified intrinsically safe Class 1 Division 1, Class 1 Zone 0 -40° to 180°F (-40° to 80°C) operating; -40° to 257°F (-40° to 125°C) storage	
Depth Encoder	Standard NAMUR Type; certified intrinsically safe Class 1 Zone 0 -40° to 180°F (-40° to 80°C) operating; -40° to 257°F (-40° to 125°C) storage	



*Low-temperature
Rig Floor Display*



*SureShot Ruggedized
System with Integrated
Server and Terminal*



Printrex Plotter

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Specifications subject to change without notice.
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