














Physiology Recording Devices

Systems	10-Channel	8-Channel	5-Channel	2-Channel
				
Channels	10	8	5	2
Compatible Sensors	EEG, SCP/EP, EMG, EKG, BVP(Blood Volume Pulse), Respiration, Temperature, Skin Conductance, Inclinator, Algometer/Force, Bend, Foot Switch, Hand Push Button, Voltage Isolator, Force Adapter, Goniometer/ Torsiometer Adapter, HEG(Hemoencephalography)	EEG, SCP/EP, EMG, EKG, BVP(Blood Volume Pulse), Respiration, Temperature, Skin Conductance, Inclinator, Algometer/Force, Bend, Foot Switch, Hand Push Button, Voltage Isolator, Force Adapter, Goniometer/ Torsiometer Adapter, HEG(Hemoencephalography)	EEG, SCP/EP, EMG, EKG, BVP(Blood Volume Pulse), Respiration, Temperature, Skin Conductance, Inclinator, Algometer/Force, Bend, Foot Switch, Hand Push Button, Voltage Isolator, Force Adapter, Goniometer/ Torsiometer Adapter, HEG(Hemoencephalography)	EEG, SCP/EP, EMG, EKG, BVP(Blood Volume Pulse), Respiration, Temperature, Skin Conductance, Inclinator, Algometer/Force, Bend, Foot Switch, Hand Push Button, Voltage Isolator, Force Adapter, Goniometer/ Torsiometer Adapter, HEG(Hemoencephalography)
Sensor type	External sensors	External sensors	External sensors	1 Internal EEG on Channel A External sensors on B, C & D
Impedance check	All channels	All channels	All channels	Channel B only
Sampling Rate	2048 samples/sec on all 10 channels	2048 samples/sec on Channel A and B, 256 samples/sec on Channel C, D, E, F, G, H	2048 samples/sec on Channel A and B, 256 samples/sec on Channel C, D, E	256 samples/sec on Channel A and B, 32 samples/sec on Channel C and D
Connect to PC	Fiber Optic to USB Or Compact Flash Module Bluetooth Tele-Infiniti	Fiber Optic to USB Or Compact Flash Module Bluetooth Tele-Infiniti	Fiber Optic to USB Or Compact Flash Module Bluetooth Tele- Infiniti	Fiber Optic to USB or COM port (Pro-SB)
Weight	200g (7oz)	200g (7oz)	200g (7oz)	40 g (1.4oz)

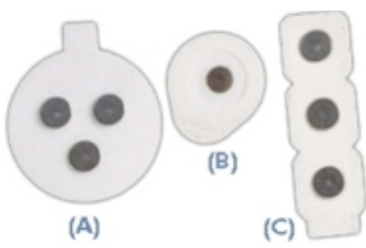
Size	5.1" x 3.7" x 1.5" (130 mm x 95 mm x 37 mm)	5.1" x 3.7" x 1.5" (130 mm x 95 mm x 37 mm)	5.1" x 3.7" x 1.5" (130 mm x 95 mm x 37 mm)	2.2" x 2.8" x 0.75" (55 mm x 71 mm x 19 mm)
Self-calibration	Yes	Yes	Yes	No
Compact Flash	Yes	Yes	Yes	No
Power source	4AA batteries, single-use alkaline or NiMH rechargeable	4AA batteries, single-use alkaline or NiMH rechargeable	4AA batteries, single-use alkaline or NiMH rechargeable	1 AA battery, single-use alkaline or NiMH rechargeable
Battery life (alkaline)	30 hours typical, 20 hours minimum	30 hours typical, 20 hours minimum	30 hours typical, 20 hours minimum	10 hours typical

Sensors (Selection)

		Sensors
<p>Skin Conductance Sensor.</p> <p>A sensor to measure the conductance across the skin, normally connected to the fingers or toes. Supplied with two finger bands. Accuracy: +/- 5 % Range: 0 – 30 μS</p>		
<p>EKG-Sensor</p> <p>A pre-amplified electrocardiograph sensor, for directly measuring heart electrical activity. Connects via extender cables for a single channel hook up. Bandwidth of 0.05 Hz – 1 KHz.</p>		
<p>Blood Volume Pulse Sensor (BVP)</p> <p>A blood volume pulse detection sensor (otherwise known as a PPG sensor) housed in a small finger worn package, to measure heart rate & provide BVP amplitude, BVP waveform, HR and Heart rate variability feedback.</p>		

	Sensors
<p>EEG-Z Impedance Testing Sensor A pre-amplified electroencephalograph sensor with built in impedance checking; it monitors skin impedance (both the reactive and resistive elements) and sensor connection.</p>	
<p>EEG Flex/Pro Sensor Monitors skin impedance (both the reactive and resistive elements) and sensor connection.</p>	
<p>Temperature Sensor Temperature sensor measures skin surface temperature between 10°C – 45°C (50°F - 115°F). It is supplied with a self adhering band for easy finger placement.</p>	
<p>EMG MyoScan Sensor A pre-amplified surface electromyography sensor used with the ProComp Infiniti/ProComp5 Infiniti channels A – B or all FlexComp-Infiniti channels for RAW sEMG. Compatible with Triode electrodes or extender cables for wider placement of electrodes. Range of 0 – 2000 µV.</p>	
<p>EMG MyoScan Pro A pre-amplified surface electromyography sensor used with the ProComp Infiniti channels C – H for RMS sEMG. Features a range switch in the sensor head to change filter settings between 0 – 400 µV Narrow filter, 0 – 400 µV Wide filter, 0 – 1600 µV Wide filter with 0.1 µV sensitivity. Compatible with Triode electrodes or extender cables for wider placement of electrodes.</p>	
<p>Respiration Sensor Includes a sensitive and repeatable girth sensor using an easy fitting high durability latex rubber band fixed with self-adhering belt for monitoring respiration rate, waveform and amplitude. Can be worn either thoracically or abdominally, over clothing.</p>	

Electrodes

FlexComp Infiniti	
	
(A) Triode electrodes	With standard 2cm spacing of silver chloride electrodes, backed with nickel plated brass snaps to prevent corrosion when connected to pre-amplifiers for extended periods.
(B) UniGel electrodes	Pre gelled single electrodes, for sensitive placements on dry skin.
(C) Single strip electrodes	Versatile electrodes can be used as strip or separated for wider placements.

Additional Module

Mangold VideoSyncPro specific module	
Synchronization Box	<p>The <i>VSPro Synchronization Box</i> allows to synchronize the video recording process of <i>Mangold VideoSyncPro Workstation</i> with the physiology data which is recorded independently in the recorder as described above.</p> <p>The <i>Mangold VSPro Synchronization</i> Box is connected between the <i>VideoSyncPro Workstation</i> and one input of the Physio Recorder to make a synchronization signal available within the physiology data stream.</p>