Comparison of Viamed DB3 Supramaximal Nerve Stimulator VIAMED Neuromuscular Transmission Monitor

		Viamed Microstim DB3	MIPM TOF3D	
		(subjective)	(subjective)	(objective) 3-dimensional acceleromyography
Stimulation modes				
TOF - Train of Four	Single	✓		√
	Continuous, every 15 seconds.		✓	
TOFs - Train of Four	Stimulation interval adjustable			✓
	between 1 to 60 minutes.		Stimulation mode can be removed/added via the setup menu.	
PTC - Post Tetanic Count		✓	✓	
Oirede Tritale ation dation	Single	1 Hz	Default can be switched between 1 Hz and 0.1 Hz Stimulation mode can be removed/added via the setup menu.	
Single Twitch stimulation	Continuous 1			between 1 Hz and 0.1 Hz
		1 Hz	Stimulation mode can be removed/added via the setup menu.	
DBS - Double Burst Stimulation		Ratio 3:2	Default can be switched between ratio of 3:2 and 3:3 Stimulation mode can be removed/added	
			via the setup menu.	
TET - Tetanic			Default can be switched between 50 Hz and 100 Hz	
			Stimulation mode can be removed/added via the setup menu.	

Stimulation sites			
Abductor pollicis / nervus ulnaris	✓	✓	
Flexor hallucis brevis muscle / posterior tibial nerve		✓	
Obiculari oculi muscle / Facial nerve		✓	
Colonial Coal Massic / Lasia Milyo			
Ctimulation factures 9 antique			

Stimulation features & options		
Stimulation strength unit	mA	Default can be switched between mA or μC
Stimulation pulse width	200 μs	In any stimulation mode the pulse width can be switched between 200 μs or 300 μs
Stimulation output	Rotary control knob	Adjustable via keypad. Default output can also be set (0 - 60 mA, 0 - 12/18 µC)
Numerical display of stimulation output		✓
Stimulation visual indicator	✓	✓
Stimulation beep	√	Can be switched on/off
Timer display		✓

Calibration modes			
Automatic calibration function for alignment			✓
with patients' individual response			
Impedance monitoring for optimal stimulation			✓
Calibration of device and creation of		✓	✓
baseline reference			
Calibration (1) at set stimulation strength		✓	✓
Calibration (2) determination of			✓
supramaximal stimulation strength			
Adjustable baseline		V	√

Graphs & trends	T			
Single Twitch Trending Graph			√	
TOF Trending Graph			✓	
TOF Twitch Result graph			✓	
PTC result graph			✓	
Single Twitch stimulation graph		✓		
TOF stimulation graph		✓		
DBS stimulation graph		✓		
TET stimulation graph		✓		
Display features				
Large LCD display		√ 4 4	✓ 4.4" (11.18 cm)	
Adjustable TOF monitor alerts (lower & upper)			√ ·	
Alerts and faults display			✓	
Skin Temperature monitoring		Sensor attaches	to the hand adapter.	
Patient stimulation data				
Onboard data storage			✓	
Data storage download to external devices		(Un	√ released)	
Remote connection to patient monitor			✓	
		(Unreleased)		
Accessories				
Stimulation leads	Included	Ir	ncluded	
Patient cable assembly		Included		
AMG (Acceleromyography) sensor			Included	
Temperature sensor		Optional accessory		
AMG Thumb adapter			Optional accessory	
AMG Hand adapter		Optional accessory,	Optional accessory,	
		for connection of	for connection of AMG sensor and/or	
		skin temperature sensor.	skin temperature sensor.	
AMG Eye adapter			Optional accessory	
Pole mount / standard rail mount		Optional accessory		
USB cable		Optional accessory		

Stimulation Electrodes	Uses standard low-cost ECG electrodes	Uses standard low-cost ECG electrodes (Paediatric)
Designed to comply with the latest European medical standards		✓

Hz = Stimulation pulses per seconds (Hertz).

mA = Stimulation strength in milliamperes.

 μ C = Stimulation strength in microcoulombs.

μs = Stimulation pulse width in microseconds.

