

# 2025 TACSM CORPORATE SPONSORS



## GOLD LEVEL SPONSORS



## SILVER LEVEL SPONSORS



**WE WOULD LIKE TO THANK NATIONAL ACSM AND GSSI FOR THE CONTINUED SUPPORT OF REGIONAL CHAPTERS!**



[www.tascsm.com](http://www.tascsm.com)



# THE MOST TRUSTED METABOLIC CART

The System of Choice  
at NASA and U.S.  
Olympic Training  
Centers.



## PREFERRED BY

U.S. (TOSH/U.S. Ski Team) and  
Canadian Olympic athletes (WinSport)

Duke U, Red Bull, Brooks Sports,  
Saucony, Nike, New Jersey Devils,  
Milwaukee Bucks

U.S. Army, Navy SEAL Team Six, NIH,  
USDA as well as Universities around  
the Globe

## CONTACT US

1043 N Eastcapitol Blvd  
Salt Lake City, UT 84103  
Toll Free: 800.942.7255  
www.parvo.com | info@parvo.com



### ACCURATE

- Precision “Yeh” algorithm
- Every system validated by  
Douglas bag method



### RELIABLE & EASY TO USE

- 3-Year Warranty Included
- Durable, Proven O2 Sensor
- Intuitive. Gas cal in 40 sec.



### Exceptional Support

- Rapid response service
- We back our product with  
World Class support

# FORCEFRAME

STRENGTH TESTING SYSTEM



## Our clinic offers ForceFrame, Strength Testing System for isometric testing and training

### Measure and train muscle strength and imbalance

With the ForceFrame we are able to measure and assess your strength and imbalances. Previously limited to elite sporting teams including many of those in the NBA, NFL and EPL and a number of performance and research centres. Our clinic has invested in this technology to make it available to you.

Once your assessment is complete, the system will generate a result of how your body moves and we will use this information to work with you to track progress and key milestones to reach your goals whether that be pain-free, return to sport or your daily activities. It can also identify changes in strength before you get injured.

### How does the ForceFrame work?

The ForceFrame is more accurate than how we have measured strength with you previously and can measure multiple muscle groups at once. Data captured from the force measurement shows your strength in real-time, and the maximum strength for each repetition and average strength across all repetitions is highlighted for quick review.

Gather a complete assessment of your strength and identify imbalances and areas to work on. This instantaneous capture and analysis allow your practitioner to make faster and better decisions for your performance or rehab program.

## Measure and see:

### Testing

Test isometric strength in over 130 positions and muscle groups.

### Training

Target specific areas including strength, endurance, pain modulation and control.

### Rehabilitation

Work towards complete rehabilitation with set goals and stages which you can see real improvements with the data collected by the ForceFrame.

#### Some of the tests include:

##### Hip

- Adduction
- Abduction
- Flexion
- Extension
- Internal Rotation
- External Rotation

##### Knee

- Flexion
- Extension

##### Ankle

- Inversion
- Eversion

##### Neck

- Flexion
- Extension
- Lateral flexion

##### Shoulder

- Adduction
- Abduction
- Flexion
- Extension
- Internal Rotation
- External Rotation



## Frequently asked questions

### Who can benefit from ForceFrame analysis?

People with enquiries, pre-op and post-op. Athletes looking to improve their strength and prevent injuries.

### How long does it take?

Depending on the tests, it can take between 5 and 30 minutes.

### Is this only for assessments?

No, this can also be very useful for rehabilitation and training. We can build a tailored program for you to build strength.

## FORCEFRAME

STRENGTH TESTING SYSTEM

### For rehab and minimising injury risk

Using the data from a ForceFrame assessment we design better rehabilitation, training, and management programs. See progress throughout your journey and know your plan is on the right track to helping you achieve your goals.

**Contact our clinic today to book a ForceFrame analysis appointment.**



## Wearable Human Physiology & Biomechanics Monitoring



**30**

**YEARS**  
*of Innovation*

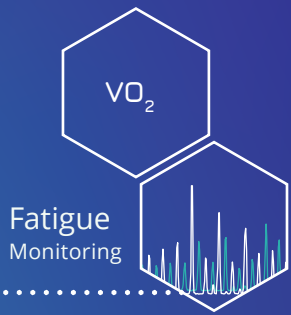
**12K+**

**RESEARCH & CLINICAL**  
Customers

**96**

**SUPPORTED**  
Countries

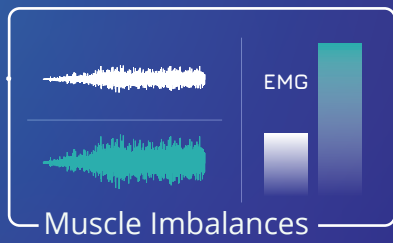




 Technique Analysis



 Virtual Reality Training



 Injury Risk



MAKING DATA WORK FOR YOU

## Validating Sports Technology



### EMG

Activation timing & amplitude assessments

Relevance: Changes in muscle activity promote improved performance and reduced injury risks.





**VO<sub>2</sub>**

Whole body metabolic efficiency

Relevance: Elevated aerobic capacity reduces energy expenditure for same running performance.



**Heart Rate**

Cardiovascular response

Relevance: Altered biomechanics supports efficient cardiovascular responses.



**Muscle Oxygen Saturation**

Fatigue development

Relevance: Tailored designs influence oxygen utilization and reduces local fatigue build up.



# COSMED

The Metabolic Company

## Total Lab Solution



### Equip your lab for top-tier **research & teaching** with **COSMED**



Cardiopulmonary



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Body Composition



Pulmonary Function



Data Networking

### Prepare students for future careers by integrating **modern & innovative** devices into your curriculum.



### Steve Gratkins

Regional Sales Manager, Southwest

[sgratkins@cosmed.com](mailto:sgratkins@cosmed.com)

520-204-5799



SCAN ME

# NORDBORD

HAMSTRING TESTING SYSTEM



## Our clinic offers NordBord, Hamstring Testing System for measuring hamstring strength and imbalance

### Measure muscle strength and imbalance and train isometrically

With the NordBord we are able to measure and assess your strength and imbalances through a range of hamstring strength tests. This is particularly important if you have had a previous hamstring injury, play a sport involving sprinting or even if you have had an ACL reconstruction with a hamstring graft.

Previously limited to elite sporting teams including many of those in the NBA, NFL and EPL and a number of performance and research centres. Our clinic has invested in this technology to make it available to you. Hamstring injury and re-injury risk is very high - know what your numbers are. Regaining muscle strength particularly eccentric muscle strength is the key to preventing recurrence.

### How does NordBord work?

The NordBord was invented by leading sports science researchers Dr. Tony Shield and Dr. David Opar, who went on to publish powerful findings from Australian Rules Football, Soccer and Rugby (among other) cohorts which would revolutionise how elite sporting organisations understand, manage and rehabilitate hamstring strain injuries.

Other leading researchers around the world continue to use the NordBord to measure, improve and understand hamstring strength and injury risk.

Live graphing shows hamstring strength data for the left and right leg, and the maximum strength for each repetition and average strength across all repetitions is highlighted for quick review.



# NORDBORD

HAMSTRING TESTING SYSTEM

## Some of the tests include:

### Eccentric

- Nordic hamstring curl
- Razor curl

### Isometric

- Prone
- 60° hip flexion
- 90° hip flexion
- Custom positions

## Frequently asked questions

### Who can benefit from NordBord analysis?

Anyone who plays sport involving sprinting. If you have a past history of hamstring injury or had a significant knee injury such as an ACL rupture, this quick test can assess your hamstring strength and help to guide your rehabilitation.

### How long does it take?

As little as 2-5 minutes. The NordBord is great for pre-season testing for individuals and for teams, the information from testing can help prevent injury and keep you and your teammates on the field.

**Contact our clinic today to book a NordBord analysis appointment.**

DIRECT HIRE OPPORTUNITY

# Play a Vital Role in the Lives of Our Nation's Defenders

As an officer on a U.S. Army multidisciplinary healthcare team, you will provide patient care, health promotion training, and injury prevention to optimize human performance. Your unique skills will maximize the health and enhance the readiness of Soldiers across the full spectrum of performance.

You'll be making a difference in the lives of our Soldiers and the country at large while gaining access to invaluable opportunities like supporting humanitarian missions, leadership training, and a competitive benefit package.

## **Requirements:**

- ✓ Be a U.S. citizen by the time you commission as an Officer
- ✓ 21 to 42 Years Old
- ✓ Advanced Degree in Your Medical Field
- ✓ Medically and Physically Fit
- ✓ In Good Moral Standing

## **Disciplines included:**

- Orthopedic Surgery
- Occupational Therapy
- Physical Therapy
- Dietetics

## **Contact:**

Tiffany Wolfe, PT, DPT  
U.S. Army Healthcare  
Recruiter  
210-382-1594



U.S. ARMY



# FLUID



## OUR PROMISE

- 3rd Party Tested
- Great Taste
- Formulated for Athletes + Professionals

## TRUSTED PROTEIN & HYDRATION



**WHEY ISOLATE**  
20g protein per serving  
packed in 3-4 ingredients.



**TABLETS**  
Complete electrolytes in  
effervescent drink tablets.



**ORS**  
High sodium replenishment  
for extreme conditions.

Learn more at [LiveFluid.com](https://LiveFluid.com)

For samples & order details, contact Nick Castro.

Nick@LiveFluid.com | 559-515-3815



# Ultima Series™

Cardiorespiratory Diagnostic Systems



MODEL:

## Ultima™ Cardio<sub>2</sub>®

Gas Exchange Analysis System

The Ultima Series™ cardiorespiratory diagnostic systems offer maximum flexibility to configure both pulmonary function testing (PFT) and gas exchange testing. The Ultima™ Cardio<sub>2</sub>® gas exchange analysis system pairs two superior technologies to product one singularly powerful solution. This system combines our leading gas exchange technology with the premier Mortara® ECG. The result is an all-in-one, easy-to-use "gold standard" metabolic stress testing system.

- Fast responding oxygen and carbon dioxide sensors acquire data on a discreet breath-by-breath basis, providing continuous analysis and display of data.
- Simplified testing and data interpretation.
- Optional wireless ECG and thermal printer.



### UNIQUE SYSTEM DESIGN

The Ultima system's all-in-one design allows for maximum testing comfort for the technician and the patient while utilizing the latest technology for unparalleled performance and reliability.

- Fully adjustable desktop allows for expansive personal workspace whether the technician is sitting or standing.
- Room to room portability with gas tanks.
- BreezeSuite Scheduler allows for automatic warm-up so the system is always ready for testing.



### FLOW SENSORS FOR SIMPLICITY AND ACCURACY

Our proprietary preVent® flow sensor and DirectConnect™ metabolic flow sensor saves time between patients and provides maximum infection control while meeting or exceeding ATS/ERS standards and specifications.

- Eliminates warm-up or flow recalibration between patients.
- Simple snap-in setup contains no moving parts or electronics for cost-effective testing.
- Options to use with a filter (PFT), sterilize or discard.



### TEST SPECIFIC QUICK CALIBRATION

Test specific quick calibration sampling via the calibration tower allows for simplified gas calibration based on the test being performed (pulmonary function or metabolic) without compromising accuracy of test results and lab efficiency.



The Ultima Series™ cardiorespiratory diagnostic systems offer maximum flexibility to configure both pulmonary function testing (PFT) and gas exchange systems. Simply select the product that best meets your needs, or talk to your product sales representative for more info.

TESTING CAPABILITIES	PF	PFX	CPX	CARDIO <sub>2</sub>	CCM
<b>PULMONARY FUNCTION TESTS:</b>					
◦ Spirometry (FVC, SVC, MVV)	✓	✓	✓	✓	✓
◦ Respiratory mechanics (MIP/MEP)	✓	✓	-	○	-
◦ Diffusing capacity	✓	✓	-	○	-
◦ Nitrogen washout	✓	✓	-	○	-
◦ Single breath N <sub>2</sub>	✓	✓	-	○	-
◦ Arterial blood gases (ABG manual entry)	✓	✓	✓	✓	✓
<b>ECG/HEART RATE CONFIGURATIONS:</b>					
◦ Integrated 12-lead ECG	-	○	-	✓	-
<b>GAS EXCHANGE TESTS:</b>					
◦ Direct fick cardiac output	-	✓	✓	✓	✓
◦ Indirect fick cardiac output (NICO)	-	○	○	○	○
◦ Exercise capacity (O <sub>2</sub> and CO <sub>2</sub> )	-	✓	✓	✓	○
◦ Nutrition assessment: REE/RMR (O <sub>2</sub> and CO <sub>2</sub> )	-	○	○	○	✓
			✓ standard	○ optional	

## SPECIFICATIONS

### ULTIMA SYSTEM

- Workspace: W x D: 24 x 21 in (70 x 53.3 cm)
- Base: W x D: 25 x 31 (63.5 x 78.7 cm)
- Height: 49 in (124.5 cm)

### PREVENT® FLOW SENSOR

- Bidirectional Pitot tube flow sensor
- Range: ±18 L/s
- Accuracy: ±3% or 50 mL, whichever is greater
- Resistance: <1.5 cm H<sub>2</sub>O @ 14 L/s
- Dead space: 39 mL

### DIRECTCONNECT™ METABOLIC FLOW SENSOR

- Bidirectional Pitot tube flow sensor
- Patent number: 5,038,773
- Accuracy: ±3% or 10 mL, whichever is greater
- Resolution: 2.4 mL/s
- Range: 0–40 L/min
- Application range: 100–2000 mL
- Tidal volume range: 100–2000 mL

### POWER REQUIREMENTS

- 100-240 V/50-60 Hz

### O<sub>2</sub> ANALYSIS

- Type: Galvanic
- Range: 0-100%
- Response: (10-90%) <180 ms
- Accuracy: ±1%

### CO<sub>2</sub> ANALYSIS

- Type: Non-dispersive infrared (NDIR)
- Range: 0-15%
- Response: (10-90%) <180 ms
- Accuracy: ±0.1% (0-10% CO<sub>2</sub>)

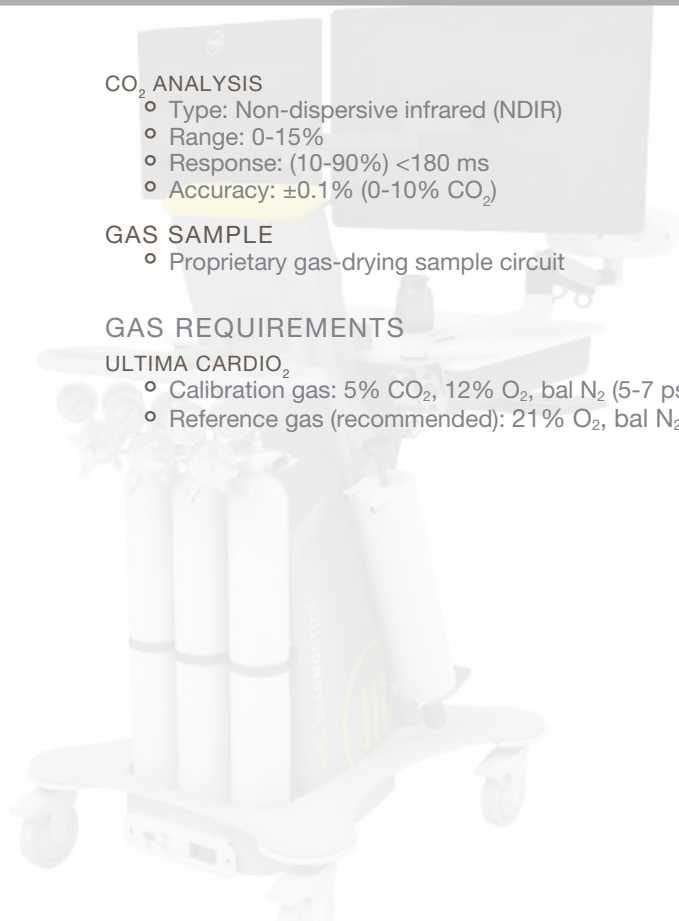
### GAS SAMPLE

- Proprietary gas-drying sample circuit

### GAS REQUIREMENTS

#### ULTIMA CARDIO<sub>2</sub>

- Calibration gas: 5% CO<sub>2</sub>, 12% O<sub>2</sub>, bal N<sub>2</sub> (5-7 psi)
- Reference gas (recommended): 21% O<sub>2</sub>, bal N<sub>2</sub> (5-7 psi)



MGC DIAGNOSTICS CORPORATION, through its subsidiary Medical Graphics Corporation  
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CE 0086





# 2025 TACSM ANNUAL SPONSOR PACKET



*From first time students to our board of directors, thank you for the support of our Chapter!*

*The meeting and the opportunities for our student members would not be possible without the annual support.*



**February 20–21, 2025**  
Waco Convention Center  
Waco, Texas