

USM SSP 23\_012 Notice of Proposed Sole Source Purchases of the following:

Delsys 16-sensor Trigno Research+ Digital System and Its Associated Components

RFx: 3150004592

[http://www.ms.gov/dfa/contract\\_bid\\_search/Bid](http://www.ms.gov/dfa/contract_bid_search/Bid)

Comments/objections will be received as required per Section 31-7-13 (C) of the Mississippi Code until 8:00 a.m. (Central Time) on October 19<sup>th</sup>, 2022.

Any person or entity that objects and proposes that the commodity listed is not sole source and can be provided by another person or entity shall submit written notice, by 8:00 AM CST, October 19<sup>th</sup>, 2022.

to:

Steve Ballew

Director of Procurement & Contracts 118 College Dr. Box 5003 Hattiesburg, MS 39406

[bids@usm.edu](mailto:bids@usm.edu)

Phone: 601-266-4131

Subject Line must read "Sole Source Objection – USM SSP 23\_012"

The notice shall contain a detailed explanation of why the commodity is not a sole source procurement. Appropriate documentation shall also be submitted if applicable.

If after a review of the submitted notice and documents, USM determines that the commodity in the proposed sole source request can be provided by another person or entity, then USM will withdraw the sole source request publication from the procurement portal website and submit the procurement of the commodity to an advertised competitive bid or selection process.

If USM determines after review that there is only one (1) source for the required commodity, then USM will appeal to the Public Procurement Review Board. USM will have the burden of proving that the commodity is only provided by one (1) source.

**Run Dates:**

**10.05.22**

**10.12.22**

**The University of Southern Mississippi**  
**Notice of Proposed Sole Source Purchase**  
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The University of Southern Mississippi anticipates purchasing the item(s) listed below as a sole source purchase. Anyone objecting to this purchase shall follow the procedures outlined below.

**1. Description of the commodity that USM is seeking to procure:**

The Delsys Trigno Research+ system is a wireless EMG system that assesses muscle function by recording muscle activity from the surface above the muscle on an individual's skin using wireless sensors that connect to the system via Bluetooth. We are seeking to procure one Delsys 16-sensor Trigno Research+ digital system and its associated components. This system includes a Trigno digital base station, including the SC-P05 power adapter, 16 Trigno Avanti electromyography (EMG) sensors, 2 Trigno Galileo sensors, Trigno sensor and Galileo sensor skin interfaces, as well as the EMGWorks, Trigno Discover, and NeuroMap software licenses.

**2. Explanation of why the commodity is the only one that meets the needs of the agency:**

The Delsys Trigno Research+ system meets the needs of the agency for three specific reasons. First, it is the only EMG system that has the ability to utilize up to 16 EMG sensors to synchronously collect real-time data. One way we use EMG data is to validate simulated muscle activations calculated through musculoskeletal modeling. Having 16 sensors to collect up to 16 different muscles and their neuromuscular function allow us to confidently validate our data. Having a 16-sensor system also allows us to expand our research capabilities in understanding neuromuscular function of a large number of muscles and being able to record up to 16 muscles and their respective muscle functions synchronously in real-time. Second, the Delsys Trigno Research+ system is completely wireless. Some EMG systems require the use of the sensors to be hardwired into the EMG signal receiver connected to a computer. The wireless

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capabilities of the Delsys Trigno Research+ system greatly simplifies the collection of EMG data by eliminating cable connections between the EMG sensors, the EMG amplifier, and can be synchronously transmitted to the EMG signal receiver via Bluetooth. Other wireless EMG systems that currently exist still require the use of disposable, self-adhesive Ag/AgCl snap electrodes connected to the EMG sensor via a wired lead. The Delsys Trigno Research+ system does not require this for EMG collections. The Delsys EMG sensors can be placed directly on the surface of the skin, over the muscle belly of the desired muscle, and collect muscle activity without any extra electrodes or wired leads. Finally, the Delsys Trigno Research+ system contains specific sensors that allow for more complex collection and analysis of muscular function. Most EMG systems contain sensors that only measure overall muscle activity. However, the Delsys Trigno Research+ Trigno Avanti sensors contain an on-board inertial measurement unit, accelerometer, and gyroscope. The Delsys Trigno Research+ Galileo sensors allow for the collection of motor unit action potentials, motor unit firing rates, and the decomposition of total EMG activity.

**3. Explanation of why the source is the only source is the only person or entity that can provide the required commodity:**

Delsys is the sole manufacturer of all Trigno Research+ products, and therefore are not available for commercial sale by any other EMG system manufacturer. The Trigno Research+ system is the only system capable of offering their unique set of sensor and software configurations and features. No other EMG manufacturer uses Delsys's proprietary patented technology. The Trigno Research+ products are protected by US Patents 6480731, 6238338, and European Patent EP1070479.

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**4. Explanation of why the amount to be expended for the commodity is reasonable:**

The quoted price is reasonable as it contains all the necessary components for the Delsys Trigno Research+ system package. The quoted price contains all the required cords, adapters, proprietary software, Avanti EMG sensors, sensor to skin interfaces, as well as technical support. It also contains the more advanced Galileo EMG sensors, which are only sold through Delsys. The list price quoted by Delsys matches the price on their internal price list for universities and government institutions. Because the University of Southern Mississippi is a public university, the quoted price contains an educational discount.

**5. Efforts that the agency went through to obtain the best possible price for the commodity:**

Effort was made to investigate if third-party vendors sold the Delsys Trigno Research+ system and its associated components in its entirety (i.e., complete system including cords, adapters, sensors, software, sensor to skin interfaces, etc.). No third-party vendors sold the complete system package. Delsys also states that they are the sole manufacturer of all Trigno products due their patent, proprietary configurations, and features. Therefore, they are not available for commercial sale by any other EMG system manufacturer. Delsys also reserves the right to be the sole source provider of the Trigno Research+ system and accessories in the United States and other regions.

<b>Advertisement Schedule</b>	<b>Date</b>
<b>1<sup>st</sup> scheduled</b>	<b>10.05.22</b>
<b>2<sup>nd</sup> scheduled</b>	<b>10.12.22</b>

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Director of Procurement & Contracts  
steve.ballew@usm.edu

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