

ITEM OPPORTUNITY SYNOPSIS

Scouting Number:	2024-233
Name of the item to be scouted:	Wearable Camera Prototype
State item to be used in:	Virginia

Describe the Item:

Please describe the item application/the end use of the item.	Client is looking for an engineering/prototype manufacturer to assist with designing the first iteration of a wearable camera that utilizes 2-way communication and AI technology. See attached documents for more specifics.
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Supplier Information:

Type of Supplier Being Sought (select from the list below):

Manufacturer	x
Contract Manufacturer	
Distributor	
Other (Please Specify)	

Reason for Scouting Submission (select from the list below)

2nd Supplier	
Price	
Re-Shore	
Past supplier no longer available	
New Product Startup	x
BABA	
Other (Please Specify)	

Summary of Technical Specifications and Performance Requirements:

Describe the manufacturing processes (elaborate to provide as much detail as possible)	As the product has only been virtually designed, there is no set process.
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Provide dimensions / size / tolerances / performance specifications of the item	See attached documents for specifications.
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List required materials needed to make the product, including materials of product components, if applicable	See attached documents for specifics.
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Are there applicable certification requirements?	
Yes	
No	x
Please explain:	

Are there any applicable regulations that apply to the production of this item?	
Yes	
No	x
Please explain:	

Are there any other standards / requirements?	
Yes	
No	x
Please explain:	

NAICS CODES:	
NAICS 1	
NAICS 2	

Additional Comments:

Additional technical comments:	
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Volume and Pricing:

Estimated Potential Business Volume (i.e. #units per day, month, year):	One prototype initially with the potential to manufacture the final product.
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Estimated Target Price/Unit Cost Information:	To be determined in negotiation.
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Delivery Requirements:

When is it needed by? (Immediate, 30 days, 6 months, etc.)	Project expected to start in March 2025.
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Describe packaging requirements (i.e. individually/group packaging, etc.)	To be determined in negotiation.
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Where will this item be shipped?	Maryland
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Additional Comments:

Is there other information you would like to include?

The organization is also willing to work with technical universities and is open to suggestions on overall design.



Patent Specifications for GENEDGE:

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XAICAM® WEARABLE CAMERA PRODUCT DESCRIPTION:

(See attached Power point for Product Images and Use Cases)

- Can be worn comfortably around the user's head.
- Will have a thick inner cushion for heat protection.
- Adjustable Head strap for tight fit around the head.
- Captures livestream video, images and stores media to the AWS cloud.
- Facilitates two-way communication for remote assistance.
- Will perform A.I. computer vision/image recognition.
- Integrated with our X, A.I. digital voice assistant & ChatGPT 4o.
- Bluetooth and Wi-Fi enabled.

HARDWARD (MINIMUM VIABLE PRODUCT):

- 1.) Housing form-factor based on images in Power point.
- 2.) CPU Processor Memory Chipset
- 3.) Wi-fi and Bluetooth Connectivity 802.11ac
- 4.) Wi-Fi Antennae
- 5.) Electronic image stabilizer (EIS)
- 6.) Camera Module/Image Sensor
- 7.) Speaker/Microphone Audio Codec
- 8.) SD Storage Card Slot 32GB (optional for prototype)
- 9.) Rechargeable Li-ion battery 1200 to 2000 mAH (**Integrated within wearable device or facilitated via connected battery pack on the waist for the prototype.**)
- 10.) Sweat Resistant Inner Cushion to protect forehead from battery heat.
- 11.) Power On/Off / Reser Button located on XaiCam® Wearable device.
- 12.) LED Indicator

XAICAM® FIRMWARE:

NOTE: Camera firmware will be supported by an AWS cloud solution. In addition, we need the prototype to facilitate two-way communications in real-time for remote assistance via a built-in Wi-Fi module and/or SIM Card, or an interface with wearer's Smartphone Wifi capability.

a.) 1080 HD – H.264 Video Compressor firmware on device camera to reduce bandwidth prior to capture on AWS Cloud Server to save cost.

b.) Session Initiation Protocol (SIP) Implementation via Wi-Fi/5G mobile application

SIP: Android provides an API that supports the Session Initiation Protocol (SIP). This will allow us to add SIP based internet telephony features to the applications. Android includes a full SIP protocol stack and integrated call management services that lets the application easily setup outgoing and incoming voice calls, without having to manage sessions, transport level communication, audio record or playback directly. SIP runs over the wireless connection such as WiFi.

NOTE: We are open to suggestions to improve or simplify the prototype (MVP). XCESS, LLC welcomes any recommendations from potential manufacturers to achieve the development of our patented wearable AI camera prototype.

Awarded Two Patents on Advance Wearable A.I. Camera Technology

XaiCam[®]



Patent US9648277 and US9360682

- Can be worn comfortably around the user's head.
- Will have a thick inner cushion for heat protection.
- Captures live video, images and stores it to the cloud.
- Facilitates two-way communication for remote assistance.
- Will perform advance A.I. computer vision applications.
- Integrated with our X[®] A.I. digital voice assistant & ChatGPT 4.



Patented Wearable A.I. Camera Technology

**FRONT
VIEW**



AI Camera

Patent US9648277 and US9360682

TOP VIEW



THICK INNER CUSHION

Patent US9648277 and US9360682

XaiCam[®] Vision Impaired Use Case

- Developed with computer vision capability.
- The A.I. powered wearable camera can perform images analysis to assist the Vision impaired to navigate walking around and accessing information in everyday life.
- The integrated A.I. digital voice assistant will instruct the vision impaired on what the XaiCam sees in front of them.
- The X, voice assistant will read text in any language and answer questions via interfacing with ChatGPT 4o.



XaiCam[®] Medical Use Cases:



The computer vision capability.



The A.I. powered camera can help doctors identify skin abnormalities for early detection of melanoma.



The A.I. algorithm can be trained to process diagnostic images by performing a comparative analysis of patient images.



XaiCam[®]

Medical Use Case



- ⊕ Emergency room doctors encounter patients with life threatening conditions which require immediate advice from a specialist.
- ⊕ Doctors can utilize our wearable to livestream patient symptoms to a specialist in another state to ascertain how to save the patient's life.

Use Case for Healthcare Education



Medical students across the globe can remotely access live video of a surgeon **wearing our device** perform any number of surgical procedures to see firsthand how it's done.



Use Case for Contractors



- **Contractors can receive remote live assistance for repair issues.**
- **They can perform hands-free repairs while guided by an expert.**
- **The XaiCam[®] captures each successful repair session to train the X[®] A.I.**
- **Our X[®] A.I. voice agent will also be capable of assisting contractors with repairs.**
- **XaiCam[®] will significantly increase efficiency and reduce cost from downtime.**

XaiCam® remote assistance when seconds matter.



THANK YOU!

