# Advanced-Data Management System Enhancing Automation of Tasks and Processes Reducing Human Performance Errors

*Midas Lite The Immediate Solution To Your Communication Challenges*

*because it knows where you are in the facility*

*Stan Robinson*

# MULTIPLE DATA MANAGEMENT TOOLS IN ONE DEVICE

1. Personnel radiation monitoring device.
2. Com device two way audio WiFi calling with all com devices at your facility.
3. Wireless video streaming from the field to the desktop on your network.
4. RTLS technology 6" to 1 ft accuracy with electronic barriers providing pre-recorded. message. For example-Hardhats and safety glasses are required for this area.

# The **MIDAS** Device

MIDAS Device

## REVOLUTIONARY ALL-IN-ONE DEVICE

- Fully Integrated, Silicon photodiode Electronic Dosimeter 7μr/hr to 10,000 r/hr.

- WiFi-enabled telemetry system showing personnel and area rad monitor data.

- RWP Access Control System connection through Midas touchscreen.

- Stream the video to the desktop like a body cam for each user in the field.

- Two-way Audio Communication Device using WiFi from Midas device.

- Real-Time Location System (VPS) AI allows electronic barriers to provide information quickly. Caution: You are not qualified for this task!  RWP required for entry, etc.

# PRIOR LARGE INVESTMENT IN DOSIMETRY

- We realize many of your companies already have a large investment in Electronic Dosimeter systems

- But you still need access to better data management devices for Audio, video, and text data from the field to your network

- So we provide an option that allows you to utilize these new data management device and system options

# The **MIDAS Lite** Device

MIDAS Device

## REVOLUTIONARY ALL-IN-ONE COMMUNICATION DEVICE ON THE ANDROID PLATFORM

- This device is not an Electronic dosimeter so you would continue to use your current ED system

- WiFi / 4G-900 Mhz Enabled Data System showing data you select to be monitored, ie Audio, video, Rad levels

- RWP Access Control System connection through Midas Lite touchscreen

- Stream the video to the desktop like a body cam for each user in the field for Midas Lite and WS (Work Station)

- Two-way communication device: WiFi from Midas Lite device and WS, and BT headset capable.

- A real-time location system (VPS) with digital assistance allows electronic barriers to provide information quickly. Caution:  You are not qualified for this task!  RWP required for entry, etc.

- Weighs less than 155 grams size will shrink going into the production phase

- Optional Haptic Feedback heart rate, BP, body Temp with wrist band

# The **MIDAS Lite** Device



**ALL-IN-ONE COMMUNICATION DEVICE**
Two-way Audio
Stream video back to desktop
RTLS Location Tracking
Connect to Access control for RWP Log On
Not an Electronic Dosimeter!

# AURUM "Work Station"



2.85" Wide

1" Thick

7" Long

- Work-Station (WS)
  - One-way video and two-way audio calling to a Desktop User using WiFi calling or 4G/900 Mhz also call desk phones and off site

  - Using a dual GM detector for Area Radiation Monitoring and for hand held Radiation surveys.

  - Location provided for WS Work-Station to the desktop via RTLS

  - Stream 4 workstations into Desktop for multiple job support

  - Deploy WS as WiFi camera rapidly with mag mount
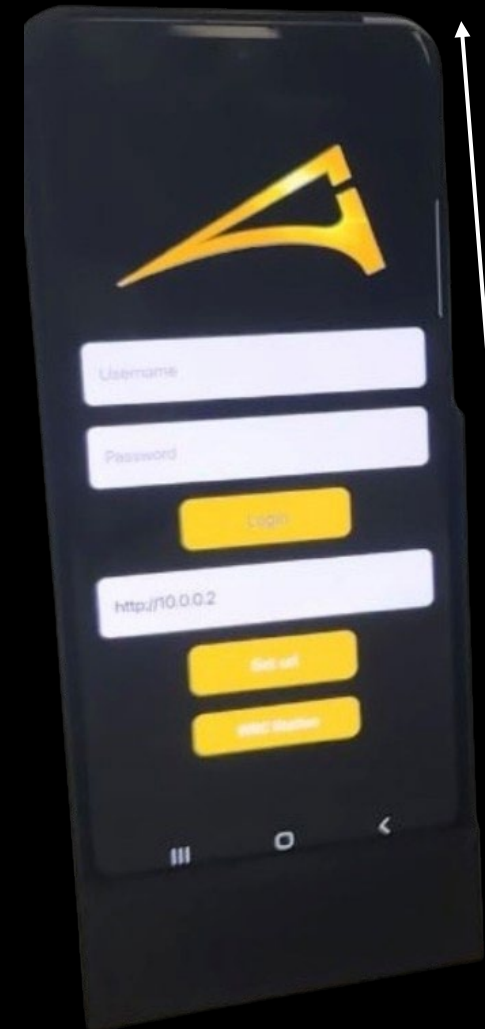
**WORK-STATION**

# Work Station And Midas Lite New Aurum Devices

- **Work-Station (WS) Using Aurum OS**
  - Wireless fixed video camera WiFi & 4G/900 stream back to desktop or to Midas Lite

  - Dual GM Radiation Detector 7µr/hr to 10,000 r/hr

  - 2 Way audio communications WiFi/4G/900 Mhz

  - RTLS technology 6" to 1 ft with Digital Assistant

  - Midas Lite Using AURUM Operating System

  - RWP access control interface

  - 2-way audio from Midas Lite to workstation, desk phone or off-site calls

  - One-way video stream to desktop

  - RTLS technology with 6" to 1-ft with digital assistant



2"Wide

4 ¾" Long

¾" Thick

Midas

2.85" Wide

7" Long

1"Thick

WORK-STATION
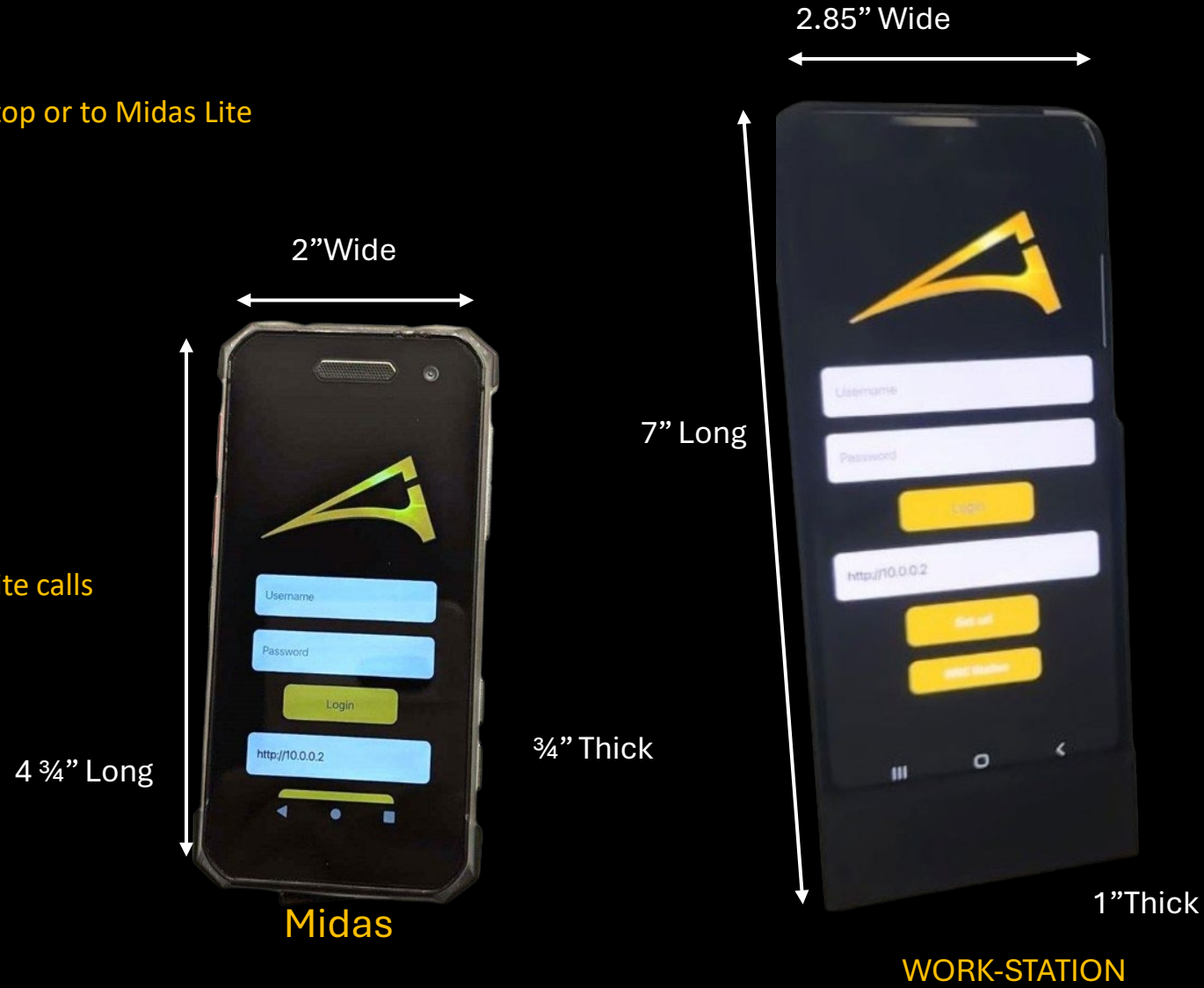
# Microsoft Hololens2 Application

Designed with Field Deployed Professionals in mind, Aurum provides a more efficient, and easier, way to do business.

- Set personal alarm setpoints and get notified before there's a problem.
- Interact with instrumentation remotely
- Hands Free procedure and document use.
- View worker data above their head, as you look at them.
- See facility Points of interest and be led to them if needed.
- Perform, and record, field measurements.
- Communicate with SMEs through Aurum Assist using the Hololens 2

# Hands Free, Electronic, Documentation

Aurum provides a revolutionary hands-free documentation system so you can complete procedures quickly, efficiently, and securely with simple hand gestures.

**Menu**
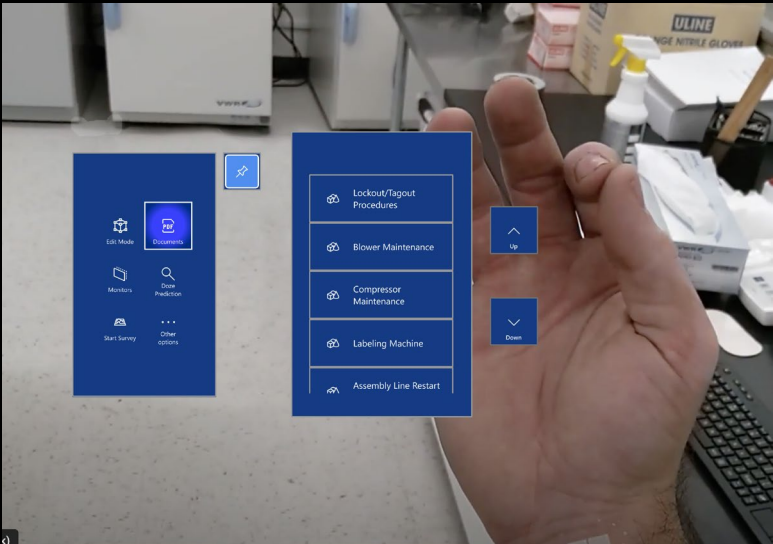
**Document**
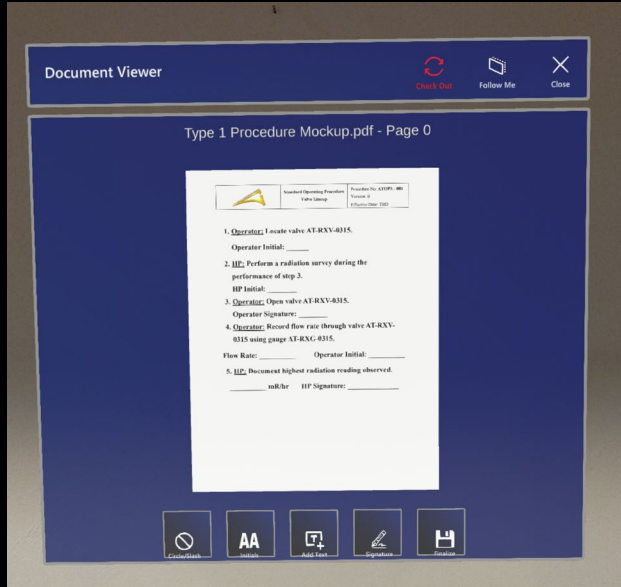
- Full Procedure/Form Documentation Suite
- Customizable Format
  - Electronic Forms
  - PDF Form edit capability
  - Checklists
- Automatic Date/Time Stamp
- Secure Signature/Initial
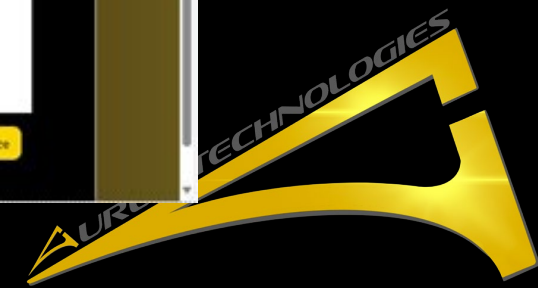- Data Input
- New Saving System
  - Customizable
- Shared Environment

# DOCUMENT MANAGEMENT

Aurum utilizes the Midas device to provide RTLS technology and heat map dose rate. Aurum RTLS AI creates a digital twin of the area you are in, providing a 6" to 1-foot resolution. The personnel icon tracks your location on an elevation map at your facility. Mousing over the icon provides Dose and Dose Rate data for the individual. The system works on your facility's WiFi with 4G/900 Mhz backup for audio and RTLS, as well as telemetry data.
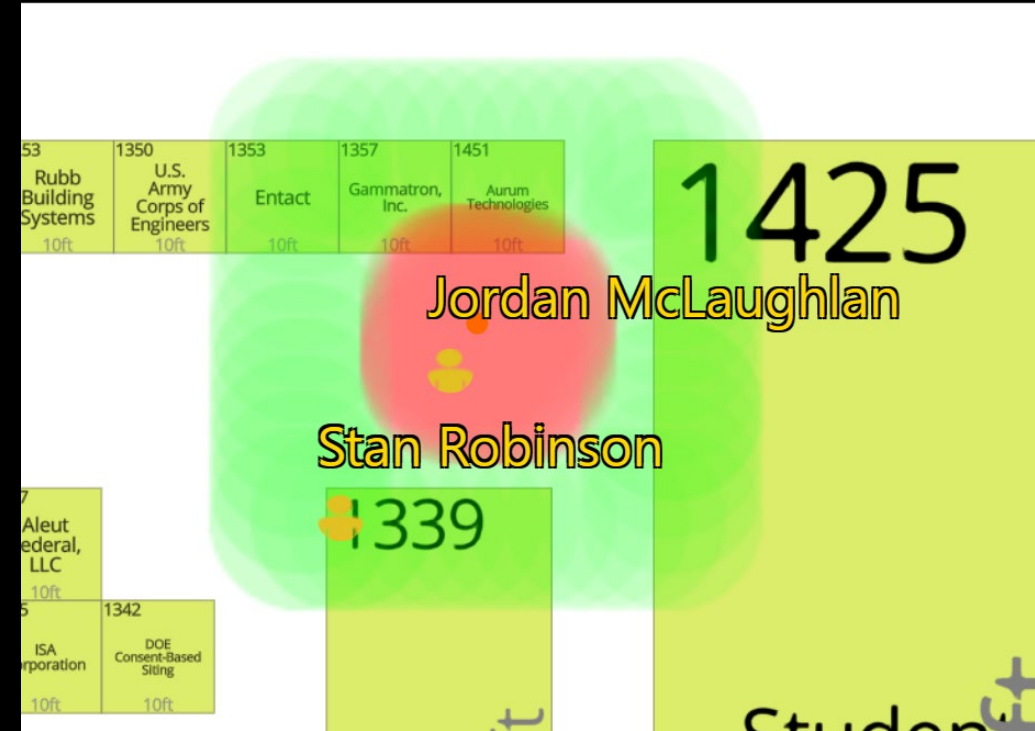
Midas Production Device
IP67 hardened device
2 Meter drop concrete
Android 11 platform
12-hour battery life