



Digi-Lumen Technologies



SentryMDU Implementation for those with Disabilities

February 2020

Assisting those with Physical and Developmental Disabilities

1. Explain what the Sentry MDU System is
2. Technology Review
3. Benefits to those with physical and developmental disabilities
4. Where to find more information



1. Brief Technology Review
2. Features Summary of the Sentry MDU System
3. Screen examples of Key Features
4. Next Steps
5. Appendix





Mission – Independent living in a “connected” world

❑ **Improve the quality of life**

We feel it is vital that people with disabilities are afforded the opportunity to live independent lives (within their capability) and are entitled to the dignity and respect that comes with that independence.

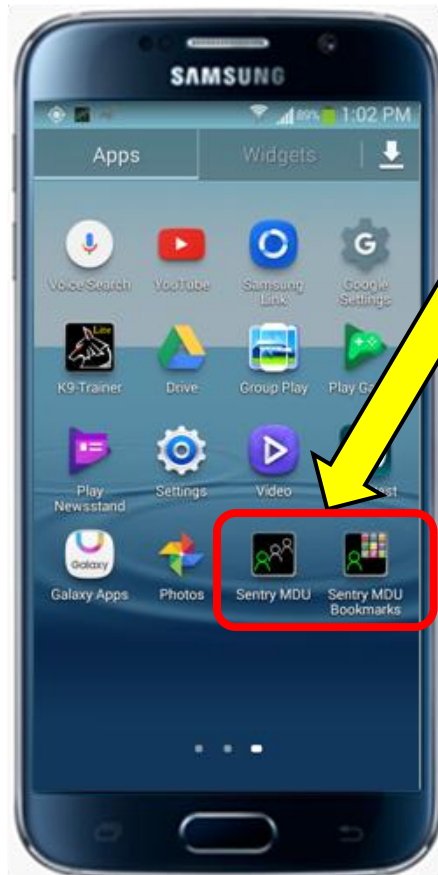
- ❑ Each person is different and will require different levels of interaction from family, friends and support organizations. Whether it is Down Syndrome, someone on the Autism Spectrum or a physical disability ... it may be helpful for a parent/guardian to be “connected” with them in the event assistance is needed.
- ❑ The SentryMDU App can be used to improve the quality of life for individuals with disabilities and the families that support them. These tools can enable a more independent living for the disabled while giving families the peace of mind by remaining “connected” to the loved one.



Technology Review



Description of the Sentry MDU System



App on your mobile device

- ❑ Sentry MDU (Multi Data Unit) is a Mobile Device / Client Server system that provides real-time video streaming integrated with GPS location tracking, remote access and remote monitoring/control.
- ❑ Although the system was designed to be a communications tool for First Responders (Police, Fire, Search & Rescue) the technology has application for those with physical and developmental disabilities.

SentryMDU Business Model

Three different User options are available ...

For a typical User of the General Public, the FREE Option should meet their needs.

Free User

No satellite imagery or remote server storage.

No \$\$ Cost



Subscription User

Limits on satellite imagery and remote server storage.

Level 1 = \$4.99/mon

Level 2 = \$9.99/mon

Level 3 = \$14.99/mon



Licensed Server User

No limits on satellite imagery and remote server storage.

Annual Server License

Annual Desktop License

\$ Satellite Imagery usage

\$ Cost / User / mon



Equipment Needed to run the SentryMDU System

Family Members and those with a disability only need to carry a Smartphone or Tablet that runs the Android operating system (ver 5.1+). We handle everything else.

Download the App

The App is free to download and install



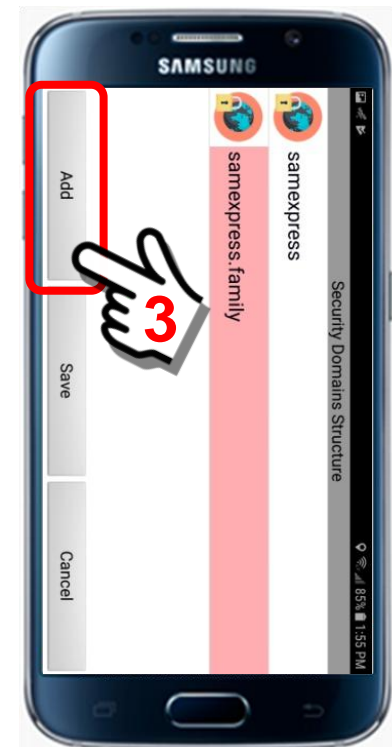
Install on your Device

Install the App and Register for a "new" User Account.



Create your Group

Create your Family Group and Security Domain.



- ❑ Every User on the system must be given specific “access” rights.
- ❑ Data encryption (SSL) between mobile device and Server is available. In addition, Diffie-Hellman encryption is available for direct device-to-device communications.
- ❑ Security settings can segregate users by levels of what they can “see” and change. Access can be segregated by Parent1, Parent2, Support Group, User, etc.
- ❑ Since devices can be CONTROLLED from a remote location, specific safeguards have been provided to:
 1. Allow Users to “turn off” the Sentry MDU App on their Device.
 2. Allow Users to “turn off” the Remote Access feature so others cannot monitor the device.



Why use a Smartphone as the device platform?



- Everyone has a cell phone, available everywhere (**not proprietary**).
- Allows for better performance and multi-use capability that is NOT available in a single purpose camera device.
 - Better specifications (i.e. audio, video, camera, screen resolution)
 - Environmental sensors (GPS, Accelerometer, gyro, proximity, compass, barometer)
 - WiFi 802.11 a/b/g/n/ac, Dual-band (2.4GHz & 5GHz), WiFi Direct, hotspot
 - Cellular 2G, 3G, 4G-LTE capability (5G in the future)
 - Large, high-resolution display screen
- Portable, easy to wear, rugged cases available (Mil / waterproof).
- The use of cell phones expands the potential pool of Users.
 - Family Members
 - Extended Family and Friends
 - Support Organizations
 - Volunteers
- Ease of Use ... almost everyone knows how to use a Smartphone.
- Easy to update, software delivery via Digi-Lumen Technologies website.

Sentry MDU Features Summary



Features of the Sentry MDU System

1. Street Maps and high resolution satellite imagery available.
2. Create “secure” Family Groups to control access.
3. Flexible configuration options depending on individual needs.
4. Can be a stationary camera, Body-Cam or a vehicle “Dash Cam”.
5. Real-time audio & video capability.
6. Geo-Fence alerts if a User moves in/out of designated area.
7. Two-way hands free communication with others (walkie-talkie).
8. Works with both WiFi and Cellular networks.
9. Ability to monitor the GPS location of another User.
10. Video-phone, chat and email capability.
11. Ability to review data History on any sensor (ie GPS, video, audio).
12. Ability to initiate a “live” video chat with a remote device.
13. Variety of device sizes available (tiny devices the size of a Key Fob).
14. And much more ...

Example - Monitoring a wheelchair User in a City Park

More than just a Camera Audio-Video in real-time



SentryMDU enabled mobile device mounted to the wheelchair



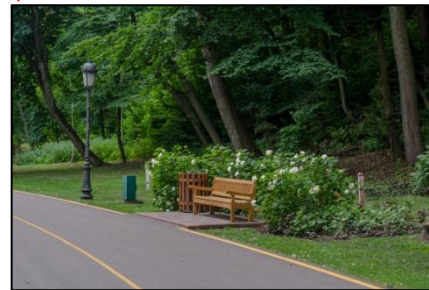
Family Members



Caregiver



Friends



You can see what they see!

Locating the User on a Satellite Image of the Park

If satellite imagery is used, it is possible to locate the User in real-time on the image.

GPS location of Bob Jones and his wheelchair



Screen Examples of Key Features





SentryMDU Main Map Screen

Satellite View as displayed on 10" Tablet.
Current GPS location of two users 2000km apart.



Sentry MDU Mobile App – Feature Examples



SentryMDU Worldwide Coverage

Worldwide coverage allows connection to remote devices in ANY location where WiFi or Cellular internet access exists.



Sentry MDU Mobile App – Feature Examples



SentryMDU Mobile Object Panel

Access audio, video, sensors and data on remote devices.
 Turn on the camera of the remote device.



Sentry MDU Mobile App – Feature Examples



SentryMDU Remote Video Monitoring

Monitor audio-video from remote devices.
Example of a vehicle live streaming a "dash-cam" video.

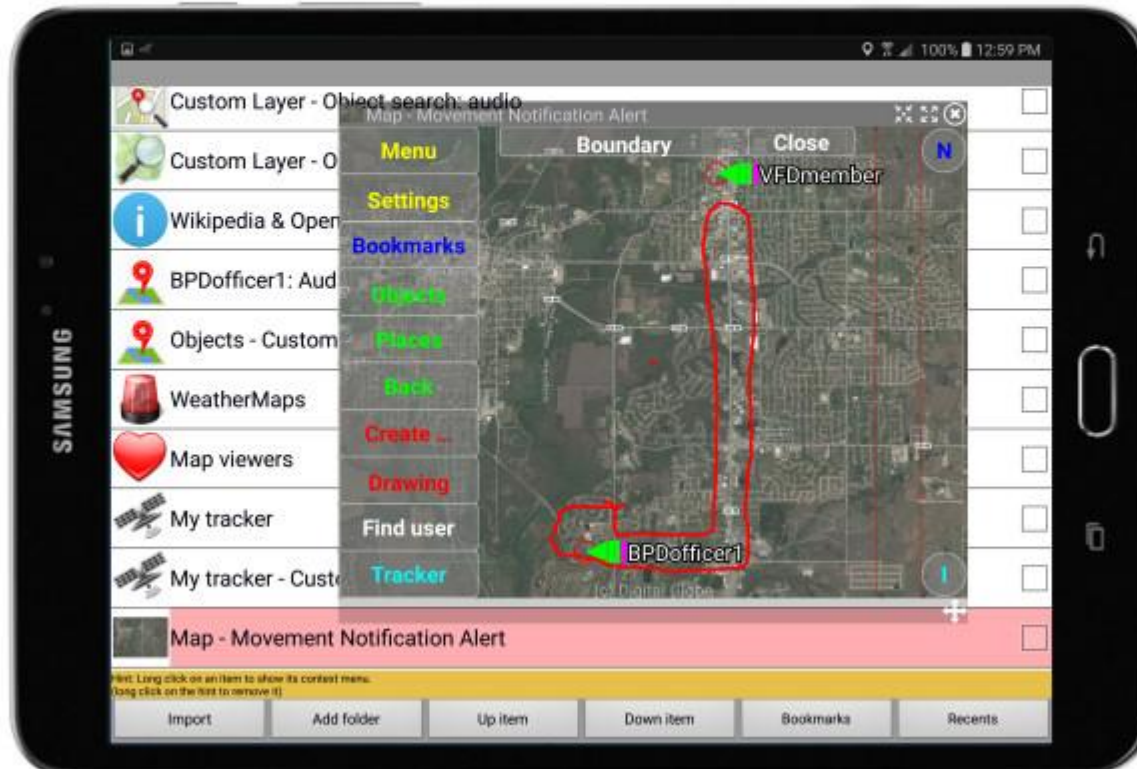


Sentry MDU Mobile App – Feature Examples



SentryMDU GeoFence Alert

Freestyle draw geofence regions. Trigger alerts for users that go "in" or "out" of the fenced boundary.





SentryMDU GPS Track History

Display GPS track history of users.

Select specific dates or date range (week, month, quarter, etc.).





SentryMDU "Live Search" Feature

Rotate mobile device. As objects come into view, the heading and distance will be displayed.





SentryMDU GPS Track + Video

Display real-time GPS track of other Users with live streaming video overlay. Click on video thumbnail to show video at full screen.





SentryMDU Multiple Video Feeds

Display multiple audio-video feeds from remote devices. Click on selected video image to expand "full screen".



Sentry MDU Mobile App – Feature Examples



SentryMDU GPS Track History

Select a date/time and retrieve historical data from your device or other users. Display this data. In the example below we are reviewing the GPS track and dash cam video that was recorded on 2015/12/18 at 12:21:00.



Next Steps



Suggested Next Steps



1. Think about it, consult with associates and other potential stakeholders.
2. Visit the ***Digi-Lumen Technologies LLC*** website (www.Digi-Lumen.com).
3. Visit the ***YouTube Website*** and review some of the videos posted on the ***SentryMDU YouTube Channel***.
4. Download the ***SentryMDU Mobile Device User Guide*** and review.
5. Optional – Download and install the SentryMDU App on a mobile device and play around with it. Others may do the same (it is FREE).
6. Review the SentryMDU Features List and determine if your organization can benefit from the use of the SentryMDU System.
7. Decide to implement the SentryMDU System for your Organization.

Appendix



https://www.digi-lumen.com



Digi-Lumen Technologies, LLC
Body Worn Camera Solutions
K9 / Wildlife / Critter Cam Systems
Private / Corporate / Agency Solutions
Innovations in Personnel Monitoring, GPS Tracking and Communications

September 10th 10:51 AM CST You are at Home!

System Log-in

- Office Hours
- FAQ
- Privacy Policy
- Forgot Password?
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SentryMDU Android App Download

Document Download

Instructional Videos

Bookmark Samples

Screen Examples



Live-stream Body Camera Video & Audio

We are proud to offer the **Sentry MDU** suite of mobile solutions. Sentry MDU (Multi Data Unit) is a next generation 4G-LTE communication unit and mobile camera solution.

The Sentry MDU software uses the high-performance features available in a standard smartphone integrated with a Data Server and Desktop Client to provide real-time video transmission, GPS tracking, automated data upload, and remote access and control capability. Nothing else on the market comes close!

When used as a **body-cam, vehicle dash-cam, drone camera** or a **sports camera**, the advanced audio/video features include real-time streaming, voice activation, motion detection, remote control and more. Sentry MDU will allow simultaneous video feeds from multiple other users to display on your mobile device (Cell Phone or Tablet).

Whether you are a First Responder and use the advanced capabilities in your job (Police, Fire, Rescue), or a sponsor of sporting events to live-stream video and GPS tracks from participants or simply communicate with an elderly parent in their home, the Sentry MDU System will enable you to connect to others anywhere in the world. We think that is pretty cool.

To learn more, click [here](#) or for a Free Trial, [here](#).

What We Do

We develop software and hardware products that interface to mobile devices and provide remote access and control of real-time video, GPS tracking, monitoring of environmental sensors and more.

We design our software to use standard "off-the-shelf" mobile devices that Users can buy anywhere.

SentryMDU App on DLT Website

Digi-Lumen Technologies, LLC
 Body Worn Camera Solutions
 K9 / Wildlife / Critter Cam Systems
 Private / Corporate / Agency Solutions
 Innovations in Personnel Monitoring, GPS Tracking and

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SentryMDU
 Digi-Lumen Technologies, LLC

Remote Access Video and GPS Tracking for First Responders (Police, Fire, Rescue)

Mobile App Download
 This software turns a standard smartphone into a versatile multi-purpose device. The SentryMDU App is a next generation 4G-LTE / Wifi enabled platform that includes the following features:

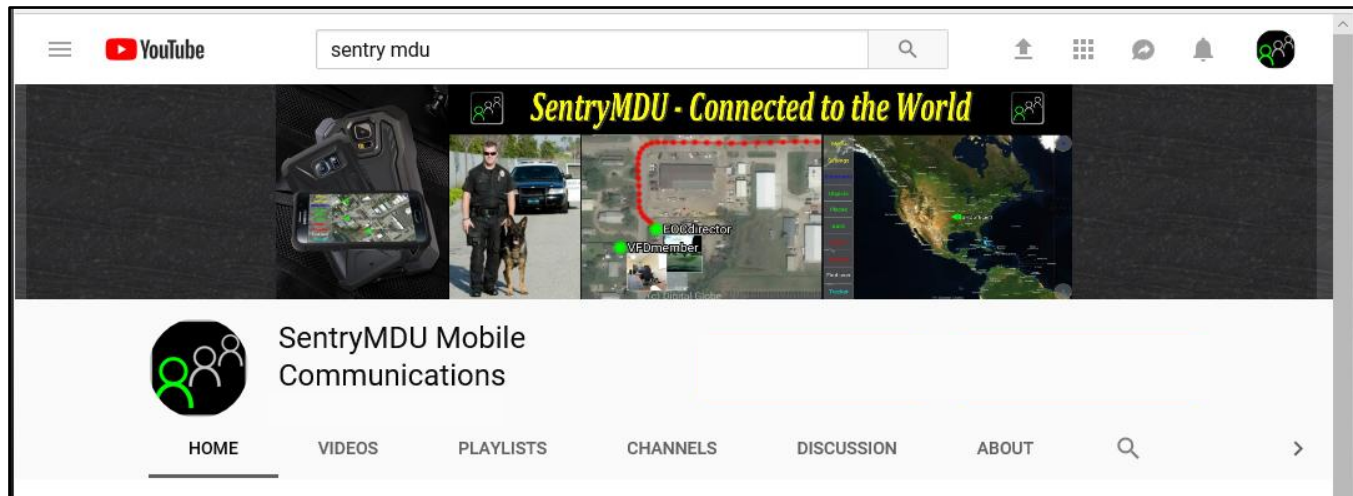
Download SentryMDU App

Summary of SentryMDU Features

4G-LTE body-worn camera solution for Law



Search for: SentryMDU



Select the correct device size for your application

Android devices come in all sizes

