

# CORONAVIRUS

Remote Patient Monitoring & Engagement

## Platform Overview

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### Rapid Deployment Remote Patient Monitoring and Engagement Platform

- Monitors 8, 16 or up to 25 patient rooms
- One Pelican Case containing all Platform components
- Plug and Play Installation
  - Platform preconfigured
  - Automatic Wi-Fi channel selection
  - Camera installation
    - Point and shoot
    - Predesignated IP address enables automated Platform location of cameras Platform
    - Mounting accessory toolkit enables camera installation in virtually any environment
  - Two-way audio communication between operator and patient
  - Server operates in “Kiosk Mode” for simplified initiation and operator usage.

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## Pelican Case System Components

- Laptop Computer with Nvidia graphics processor (GPU)
- UHD 27" Monitor (larger monitors are available but require separate packaging)
- Cameras (up to 25). Features include...
  - Two-way audio communication
  - Day and night vision
  - Pan and zoom
  - Microphone and speaker
  - Small footprint: 4.2 x 2.4 x 1.5 inches and weighs .28 lbs.
- Camera- Accessory Mounting Toolkit
- Wi-Fi 6 Router and expanders
- Headset with Microphone (3) (for end-user at monitoring station)
- Quick Start Guide
- Optional - Camera Mounting Accessories Toolkit

## Functionality:

### On-Site Remote Monitoring

- Remote CNA or technician with minimum computer skills can monitor and engage patients
- Database for scheduling of Virtual Rounds
- Database recording of up to 14 patient activities/conditions (which can be edited by the system administrator).
- All patient activities/conditions and patient/technician interactions are captured within an embedded SQL database.

### Virtual Round Report Generation

- Default reports include patient and group reporting on captured symptoms and behavior
- Designated stakeholders can generate custom individual and group reports by day and location

### Tele-Health Patient Engagement

Remote (and off-site) Physician can:

- Examine Patient
- View Virtual Monitoring Reports
- Generate Reports
- Record notes in patient record located within the SQL database.

### HIPAA Compliance and Security

- HIPAA Compliance has been waived for communication systems performing a telemedicine function for the treatment of COVID-19 per [OCR Announces Notification of](#)

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### [Enforcement Discretion for Telehealth Remote Communications During the COVID-19 Nationwide Public Health Emergency.](#)

- Although the exception is granted, we are working diligently on HIPAA Compliance for both the CoronaVirus Remote Patient Monitoring System and TeleHealth options. The CV Remote System runs over a Wi-Fi 6 network. It is secured with WPA-3, forward secrecy, blocked USB and Thunderbolt ports, and anti-malware. For HIPAA compliance, patient video is only display and never recorded or saved. As new features are added a HIPAA security and risk assessment is performed to identify further opportunities for improving the CV Remote System.
- Overseeing our HIPAA Compliance is Drew Labbo, MBA, CISSP. Drew is working with the KnowFalls Product Development Group to organize and automate security and privacy management into clear, simple processes that give our users full confidence.

### Training

- On-line user guide
- Quick-start guide
- Webinars on request

### Production

#### Commercial-Off-the-Shelf Components

- All components have multiple acquisition sources
- All components have preferred and backup manufacturers

#### Production Capability

- 10 to 20 Rapid Deployment Systems Per Day (current outsourcing)
- Further out-sourcing can increase capacity to 100 to 200 Systems Per Day

### System Expansion

- Strong capability to interface to devices with published APIs
- Have investigated expanding Platform for incorporating vital sign monitors

### System Repurposing Post-Pandemic

- Conversion to monitoring patient fall risks
- Adaptation of an artificial intelligence engine for hospital patient fall prediction

### KnowFalls Team

As note on the [website](#), the team and advisors have a track-record in:

- Planning counter-pandemic programs
- Building and executing rapid deployment systems for the “warfighter”

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- Developing large scale healthcare information systems and patient portals, and
- Patient care and care delivery logistics.

For further information contact:

Access: [CoronavVirus Remote Patient Monitoring and Engagement](#)

John Montelione, CEO

KnowFalls, Inc.

T#941.724.9700

[johnmontelione@knowfalls.com](mailto:johnmontelione@knowfalls.com)