

CASE STUDY

MOBILE TELEHEALTH CONTAINER FOR EMERGENCY RESPONSE & DISASTER RELIEF

A recent project provided **GEM** with the opportunity to design and build a mobile health clinic that utilizes the latest in telemedicine technology. This custom-built unit can function off-grid, is highly secure, and will be primarily used for disaster relief and emergency response efforts. To serve its mobile mission, this unit incorporated teleconferencing equipment for remote patient consultations.

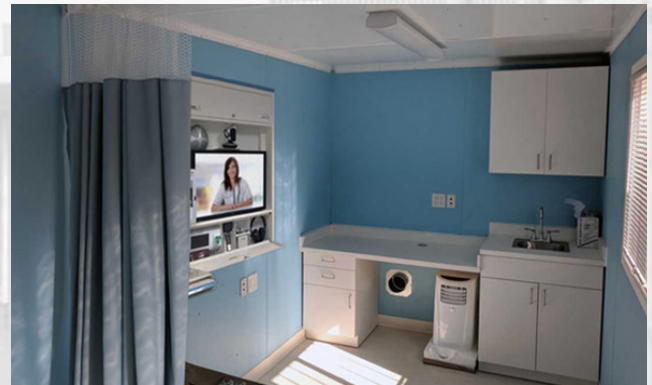
Having rapidly deployable, purpose-built solutions for disaster relief is a vital piece of equipment for floods, hurricanes and other natural and man-made disasters, both nationally and internationally.



Making sure that the unit has everything it needs to meet the needs of the customer required listening and the coordination of information. **GEM** has earned a blue chip reputation for its ability to bring their client's vision to fruition, within budget and on-time. The build time for this unit was 5 weeks.

PROJECT FEATURES

- Microbicidal wall finish
- LED lighting for reduced energy usage
- Continuous (welded seam) vinyl floor for aseptic applications
- CAT 6 data distribution, satellite-ready for off-grid communications
- Self-contained water system includes fresh water and grey water holding tanks with booster pump.
- Secure equipment room area to house mechanical, electrical, plumbing, and communications systems.
- Electrical power distribution: can be powered from a combination of the grid, renewable sources like solar or wind, and/or fuel-based generators



View from waiting area, looking toward exam room. Ceiling mounted LED fixtures provide ample lighting. **GEM** provided an integral wall-mount system for the customer's Patient Assessment Terminal (PAT). The

PAT is the heart of the telehealth system and provides all necessary hardware and software for remote patient consults and teleconferencing.



Telehealth unit housed in a 20 ft. standard height container.



View from exterior at dedicated equipment room that is housed behind the cargo doors of the container. Customer wanted a solution that was highly secure, accessible, and functional. The modular shelving system can be (re)configured to accommodate various mechanical, electrical, plumbing, and communications equipment needs.



Potable/fresh water supply system utilizes standard 5 gallon water bottles.



View from interior of exam room, looking toward entrance and waiting area. Push bar emergency exit device on door along with LED emergency lighting provides added safety.



Portable air conditioner unit can easily be connected for use in high-ambient conditions while easily stowed when not in use.

THE PACKAGED INNOVATION EXPERTS