



AVIGILON'S MOBILE PATIENT ALERT & COMMUNICATIONS TERMINAL CENTRALIZES INTELLIGENT VIDEO MONITORING TO HELP IMPROVE PATIENT CARE AND STAFF SAFETY

HEALTHCARE FACILITIES CAN MANAGE LARGE PATIENT POPULATIONS SAFELY AND EFFECTIVELY WITH BI-DIRECTIONAL AUDIO COMMUNICATION AND VISUAL VIDEO VERIFICATION.

CHALLENGE

Healthcare facilities are experiencing a surge in the number of patients requiring treatment. This is further exacerbated by limited resources and an active virus that is extremely contagious. The challenge is to balance awareness around patient conditions and locations against the health and safety of staff, particularly when staff are often required to be in close proximity with patients in order to make these determinations

SOLUTION

Motorola Solutions is committed to innovating mission-critical technologies to protect people and communities, including looking at the existing technology we have in the market that can help alleviate current healthcare challenges.

The Avigilon™ Mobile Patient Alert & Communications Terminal (MPACT) provides healthcare facilities with a quick and easy-to-install mobile nurse call station. It offers healthcare staff, such as nurses and doctors, an efficient solution to monitor multiple rooms and communicate with patients from a central location. MPACT is currently only available in the U.S. and is powered by advanced AI technologies and analytics to help improve response times to critical events.

APPLICATIONS AND BENEFITS

MPACT can help nurses and doctors treat intensive care, special or fall risk patients efficiently and safely. MPACT can be deployed in isolation rooms, as well as contagious or infectious disease control wards of field hospitals and temporary or converted hospital facilities.

MPACT incorporates the use of Motorola Solutions' [Avigilon Control Center \(ACC\) 7](#) video management software, an Avigilon video security camera mounted at the top of a mobile nurse call station, a microphone and speaker installed below the camera, as well as a connected nurse call cord so a nurse or doctor can initiate two-way audio communication with a patient and vice-versa. This enables nurses and doctors to monitor and communicate with multiple patients from the safety of a desk and minimize staff and patient interactions, when possible.

Motorola Solutions proudly manufactures and deploys the sophisticated, cutting-edge communications, software, video security and analytics technologies that keep communities and nations safe. We have been on the frontlines with federal, state and local governments, including in times of crisis, for over 90 years. Today, our 17,000 innovators, engineers and manufacturing specialists are eager to help address critical gaps in the availability of medical and health management technology needed to fight the COVID-19 pandemic. We are pleased to apply these innovations to our fixed video security and analytics solutions to deliver greater intelligence and stronger detection capabilities to help curb the spread of this virus.

MOTOROLA SOLUTIONS STANDS READY TO SERVE OUR COUNTRY IN THIS MOMENT THAT MATTERS.

Integrated video provides real-time monitoring of patients with intelligent notification abilities to increase situational awareness. Video also provides an audit trail for ensuring staff accountability and offers robust evidence for investigations of patient incidents.

MPACT integrates with certain third-party medical equipment alerts and is designed to be a rapid deployment and mobile solution to fit current healthcare needs.

THE TECHNOLOGY

MPACT can be rapidly deployed as a self-contained, standalone unit or as multiple units on a wired or wireless network for increased mobility, centrally managed through ACC software. Healthcare facilities can leverage powerful AI and analytics in ACC™ software to do more with less:

FOCUS OF ATTENTION INTERFACE: The live video monitoring interface in ACC 7 software is designed to bring the right information at the right time so that operators can take action. Deployed MPACT units will be displayed on the interface with color-coded nodes to flag critical events, helping ensure they do not go unnoticed. Nurses or doctors can receive real-time notification of the event, visually verify and audibly confirm the event circumstances before determining the appropriate response.

AVIGILON APPEARANCE SEARCH™ TECHNOLOGY: If the healthcare facility needs to investigate a patient incident, such as patient elopement, [Appearance Search](#) empowers operators to quickly search by physical description such as hair colour, clothing colour, gender and age categorization, and track the patient's route across the entire facility or across multiple facilities using the same version of ACC software. Investigations that once took hours, can now be performed in minutes.

MOTOROLA SOLUTIONS' AVIGILON SELF-LEARNING VIDEO ANALYTICS & NEXT-GENERATION VIDEO ANALYTICS: Avigilon cameras embedded with [Self-Learning Video Analytics](#) can recognize suspicious movements of people (e.g., patient running out of ward), alert operators of potentially critical events

and ignore motion not relevant to a scene, allowing nurses and doctors to focus on what matters most – treating patients. [Next-Generation Video Analytics](#) built into the Avigilon H5A Camera Line uses neural networks to power self-learning video analytics and features enhanced object detection and expanded object classifications for crowded indoor environments, such as an emergency room.

UNUSUAL MOTION DETECTION & UNUSUAL ACTIVITY DETECTION:

Unusual Motion and Activity Detection can reveal otherwise undetected events by the human eye. [Unusual Motion Detection](#) flags atypical movement (e.g. unusual movement in a ward after hours when it is normally empty), whereas [Unusual Activity Detection](#) is object-aware and detects atypical behavior of people such as unusual speed (e.g. a patient running down a typically quiet hallway) and location (e.g. a patient appearing on the roof of the facility).

HIGH DEFINITION STREAM MANAGEMENT (HDSM) TECHNOLOGY: Healthcare facilities can reduce bandwidth and storage needs, maintain video image quality and keep internet connectivity costs down with [HDSM™](#) technology built into all Avigilon cameras.

INTEGRATIONS: For optimal situational awareness, it is recommended to deploy MPACT with Avigilon [H5A](#), [H5SL](#) and [H4 Fisheye](#) cameras. MPACT is compatible with existing ACC 7 systems including [HD Video Appliances](#), [ACC ES Appliances](#) and [Network Video Recorders](#). The solution can also integrate with certain third-party medical equipment alerts via the camera digital input and the Focus of Attention interface in ACC software.

In these challenging times, MPACT can provide healthcare facilities a safe and effective method to manage large patient populations. Nurses and doctors can check in and verify a patient's condition from the safety of a central location, reducing the chance of exposure while continuing to provide the best treatment and care for patients.

