

ENHANCING SITUATIONAL AWARENESS AND RECONNAISSANCE

U.S. Army employs 360° video to improve operational effectiveness and safety



360°, full motion, interactive video technology from Immersive Media helps military and public safety forces identify threats, monitor hostile environments and maximize the safety and understanding of their operations.

For military teams operating in Iraq and Afghanistan, transportation and supply routes are extremely dangerous. The U.S. Army recently sought to improve the reconnaissance and surveillance of these routes to protect its personnel and boost the effectiveness of its operations.

To protect its personnel and equipment, the U.S. Army is constantly seeking to improve the reconnaissance and surveillance of key battlefield roads and pathways. Doing so can make the difference between life and death.

MODERN CHALLENGES OF URBAN COMBAT

Now more than ever, wars are

“WHEN THE U.S. ARMY SOUGHT A RUGGED VIDEO SOLUTION FOR ROUTE RECONNAISSANCE, IT TURNED TO ACG-SECURITY AND IMMERSIVE MEDIA FOR ADVICE AND HARDWARE.”

– A&S International Magazine

being waged in urban, civilian environments. In Iraq and Afghanistan, for example, battles and dangerous encounters often occur in streets and back alleys. Improvised explosive devices (IEDs) and surprise attacks are common, placing troops, civilians and military equipment at risk.

Fully understanding an environment— including accessibility, risks, blind spots, evacuation routes and the enemy's

previous tactics in the area—before placing human lives at risk is a key mandate for the U.S. Army and other allied forces.

The U.S. Army needed a route surveillance and reconnaissance solution that would improve the situational awareness of vehicle-bound soldiers. In particular, it sought a best-in-class Intelligence, Surveillance and Reconnaissance (ISR) collection system that could be rapidly field-deployed and

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withstand the harsh conditions of the battlefield.

DISCOVERING A REVOLUTION TO FIGHT AN INSURGENCY

The U.S. Army tapped Immersive Media and ACG-Security, an Immersive Media Authorized Agent, to improve the situational awareness and safety of its troops. The world leader and only end-to-end provider of 360° geospatially referenced video data, Immersive Media gives military, public safety and security forces an unprecedented perspective and understanding of their operations

Working closely with the U.S. Army, Immersive Media and ACG-Security developed a plan to deploy up-armored vehicles to urban environments in order to collect the necessary intelligence. Immersive Media provided the 360° video technology, while ACG-Security fortified the solution for greater

survivability, simplicity and reliability in strenuous tactical environments.

The solution uses the Immersive Media 360° sensor & capture system to collect high-resolution video of key routes and locations from every direction simultaneously. This 360SA system records the action surrounding a vehicle during missions and merges associated GPS/map data for spatial orientation and location-specific analyses. U.S. Army personnel have full viewing control of the 360° videos, with the ability to look in any direction at any point in time for comprehensive observation and examination of their surroundings.

A REVOLUTION FOR THE WARFIGHTER

360°, full motion video technology from Immersive Media has improved the effectiveness and understanding of the U.S. Army's operations. With an unimpeded field of view, U.S.

Army teams have solidified their tactical superiority in dangerous urban environments while improving the safety of their soldiers.

In addition to aiding real-time missions, the videos also provide an invaluable record of events for post-operation analyses. They allow U.S. Army leaders to study high-risk environments, enemy tactics and allied responses from a multitude of angles and viewpoints. This intelligence is used for operational planning as well as training and simulation purposes.

All told, the 360SA has helped the U.S. Army eliminate blind spots along key transportation and supply routes. It has improved the early detection of security breaches and persons of interest. It has increased the efficiency and expediency of emergency responses. And it has led to better critical decision-making before, during and after operations.



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