

Description

Eurologix makes state-of-the-art passive millimeter wave cameras and systems that detect objects concealed on the body and underneath clothing. Unlike metal detectors, the Stand-Off System can detect both concealed metallic and non-metallic objects. Plastic and composite guns, ceramic knives, improvised weapons and explosives, as well as non-threat specific items such as CD's, electronic components, jewelry, and liquids are all examples of items that the Stand-Off System's cameras can detect. Eurologix sells cameras/imagers as well as its Stand-Off, Portal and Walk-by Systems.

Eurologix's Stand-Off System is a passive millimeter-wave whole body imager that includes Millivision's patented automatic threat detection ("ATD") tool. The Stand-Off System was designed and built to detect medium and large sized objects such as assault rifles, body-bombs and other improvised explosive devices that are concealed under clothing. The System can be easily adapted to suit a variety of stand-off applications and their unique operational requirements. The image above shows the system set-up to emulate an entryway system that is typical in mass transportation venues, public and private infrastructure, shopping malls and many other applications. Two system units mounted on the wall are spaced approximately 25 feet apart so that they image both the front and the back of subjects who walk beneath them. The subject is expected to walk within a 1 meter wide area to be properly imaged by both units at the same time. Both overt and covert operations are possible and it can scan up to 900 people per hour. The system is currently tuned to optimally detect at distances up to 12 feet. The system can be modified to operate at greater distances depending upon application specific requirements. Below is a screen shot showing what an operator would see in real time.



In this particular situation the subject is carrying body bombs on his front and back as he walks through the detection area. The operator has selected to display both the millimeter wave image and the video image side by side on the screen. On the left, the body bombs are visible on the millimeter wave image. To aid in detection, operator effectiveness, reduce operating costs and provide an option for privacy, the system includes Millivision's proprietary Automatic Threat Detection (ATD) tool. The ATD tool superimposes a red box around the detected threat. The operator can choose to use this tool on the millimeter wave image, the video image (as is shown in this example) or both. In applications where privacy could be an issue, operators would choose to only view the video image with ATD as shown below.



Advantages:

- Extensibility - Eurologix is the only vendor that uses a common platform to deliver all 3 modes of scanning – Portal, walk-by and stand-off. Unlike other vendors that produce single purpose/mode systems, Eurologix has the ability to build systems tailored for special uses (across a broad range of form factors.
- Privacy - uses its Automatic Threat detection Tool (ATD) to implement privacy. This tool is superior to systems that rely on masking algorithms that blur the private areas or use a complex and cumbersome operational model requiring multiple operators to ensure that the person viewing the image does not actually see the subject.
- Lower Operating Costs - Eurologix believes that its advanced ATD tool will prove to deliver lower operating costs for its customers. Because the primary screener will only view a video image of the subject versus a "revealing" millimeter wave image there is no need to employ the costly and cumbersome process that others rely on. Additionally, we anticipate lower training costs, less operator turnover and less operator fatigue due to the ease of system use compared with the need to carefully examine millimeter wave and/or holographic images
- Throughput – ATD also acts as an efficiency tool resulting in high throughput rates.
- Safety – Eurologix's systems are totally passive and emit no radiation. Detection is based on the millimeter wave energy that is being produced by the human body.

Specifications:

- Size - Each Unit H 2.0 ft, L 5.1 ft, W 2.5 ft, intended for ceiling mounting, wall mounting or mounted on a moveable stand.
- Weight - Approx 200 lbs each
- Power: - 120VAC, 2 x 20 A Circuits
- Console- May be placed anywhere, connected over Ethernet, hand-held wireless consoles are available

