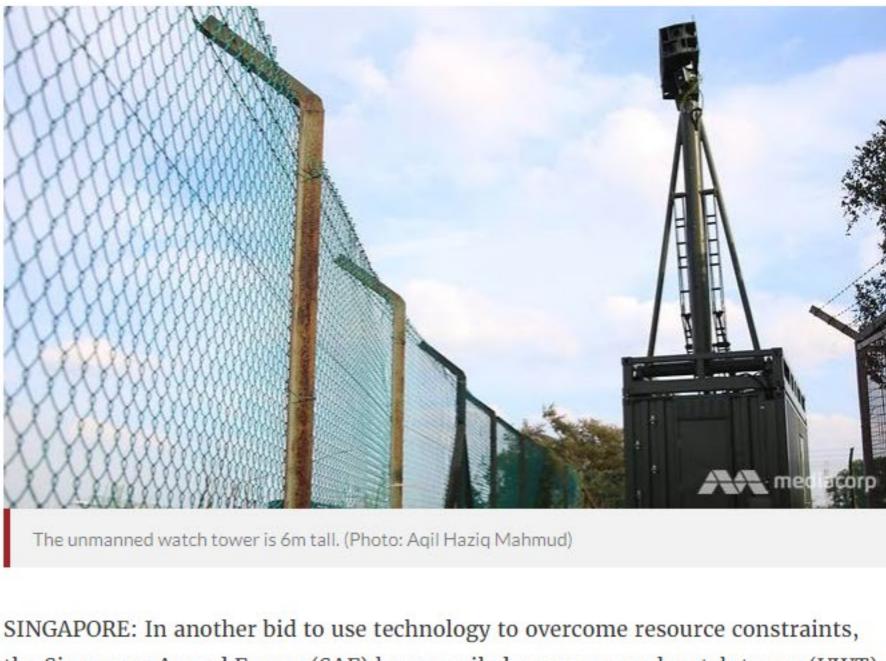


Singapore

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SAF deploys unmanned watch tower on Jurong Island to boost protection of key installations



the Singapore Armed Forces (SAF) has unveiled an unmanned watch tower (UWT) that improves surveillance and cuts manpower needs in the protection of key installations. The SAF will deploy three UWTs on Jurong Island, where it has been conducting coastal surveillance by positioning security troopers in watch towers across the

island. In contrast, the UWTs will be operated remotely from the unit headquarters

on the island. The UWT, designed and built by DSO National Laboratories, is just one of several tech-centric initiatives announced by Defence Minister Ng Eng Hen in his Committee of Supply debate speech on Friday (Mar 2).

"The unmanned watch tower is an important addition that strengthens the overall defence of Jurong Island," said 2nd People's Defence Force commander Colonel (COL) Dinesh Vasu Dash, who also leads the Island Defence Task Force.



The cameras, which automatically adjust

resolution cameras and video analytics for automatic detection of targets.

their settings based on outdoor conditions, can detect targets as small as a swimmer. Sensors use machine learning to identify threats and will send an audio

the UWT is equipped with sensor systems comprising multiple low-light, high-

COL Dinesh said. "But the surveillance on board the unmanned watch tower provides a better field of view and allows the operators to observe threats that are approaching the island from a greater distance."

warning to security troopers if a threat

"Soldiers with binoculars are susceptible

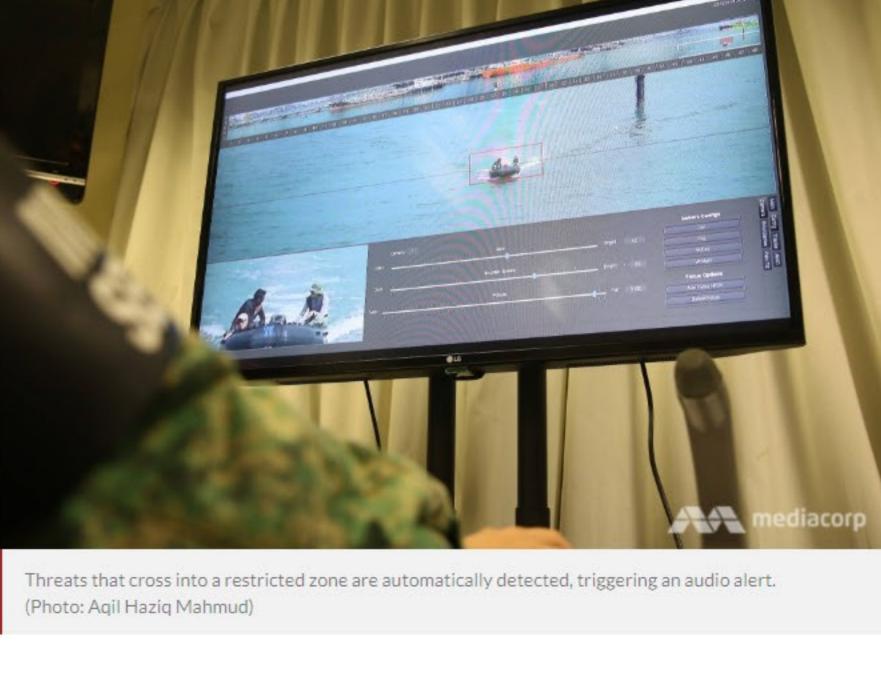
to environmental conditions including

rain, night and even during the haze,"

enters a restricted zone.

Due to operational security reasons, the

SAF is unable to disclose the UWT's range.



But the UWT changes that with its sharp visuals even at night, the 24-year-old added. "It gives us very precise (information) about the vessels that are coming in,

trooper on Jurong Island for more than a year.

so we can react fast."

Haziq Mahmud)

This technology also reduces fatigue on the eyes of soldiers, who can spend hours

staring at the sunlit sea. "Our vision will get blurry and the information process

will be slowed down," said Corporal (CPL) James Tan, who has been a security

makes decision-making easier - whether to engage unauthorised vessels that come into our waters," the 24-year-old added.

With the UWT, details like the colour and name of vessels can be seen clearly, said

Second Sergeant Endy Othman, a platoon sergeant in the unit on Jurong Island. "It



When that happens, soldiers can "choose to trigger quick response forces from

Beyond the operational improvements, the UWT brings manpower savings of up to

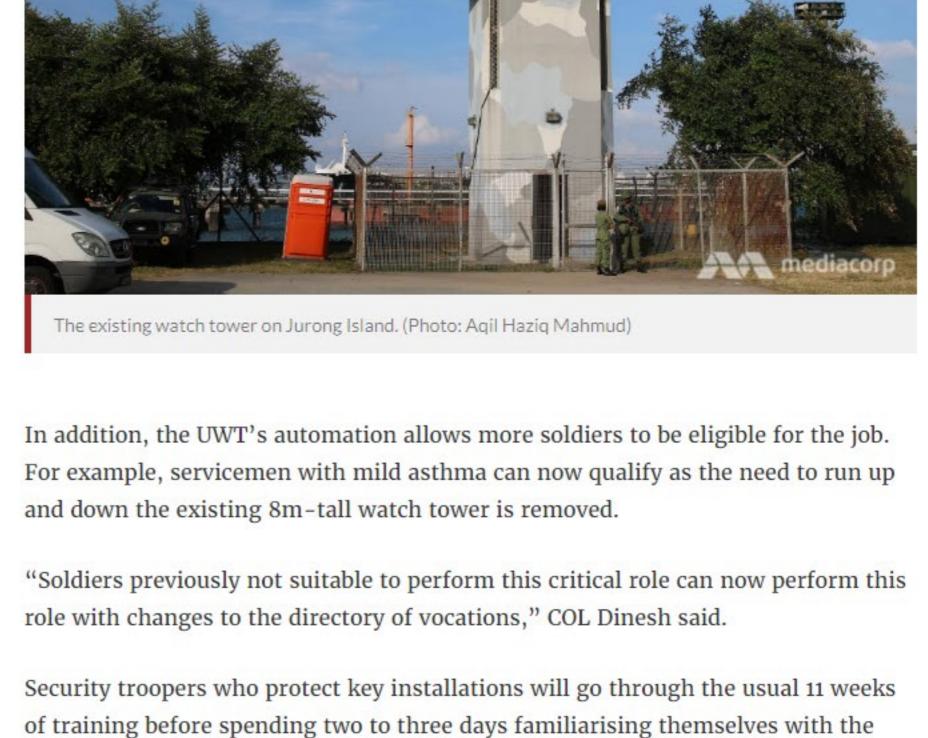
either the SAF or the Singapore Police Force", COL Dinesh said. The UWT also

30 per cent. While one team of security troopers currently operates one watch

tower, the same team can operate up to three UWTs. The SAF is unable to reveal

comes with a loudhailer-like long-range acoustic device to warn intruders.

exact manning figures for operational security.



new system. Currently, one unit has been trained to operate the UWT.

