

New tech to keep Singapore's waters safe

Unmanned vehicles and surveillance systems will beef up Singapore's maritime borders, said the Police Coast Guard last Friday. They are part of efforts to boost maritime security here.



Tethered unmanned aerial vehicle (UAV)

This UAV gives officers a bird's eye view of the seas. It will be deployed by 2019.

- Flies at a height of 50m.
- Carries an electro-optics system with infrared sensors.
- Can be deployed or retrieved in 20 seconds.
- Tethered to reduce fly-away risk in stormy conditions.



Unmanned surface vessel (USV)

Two USVs will be deployed in a trial starting at the end of this year.

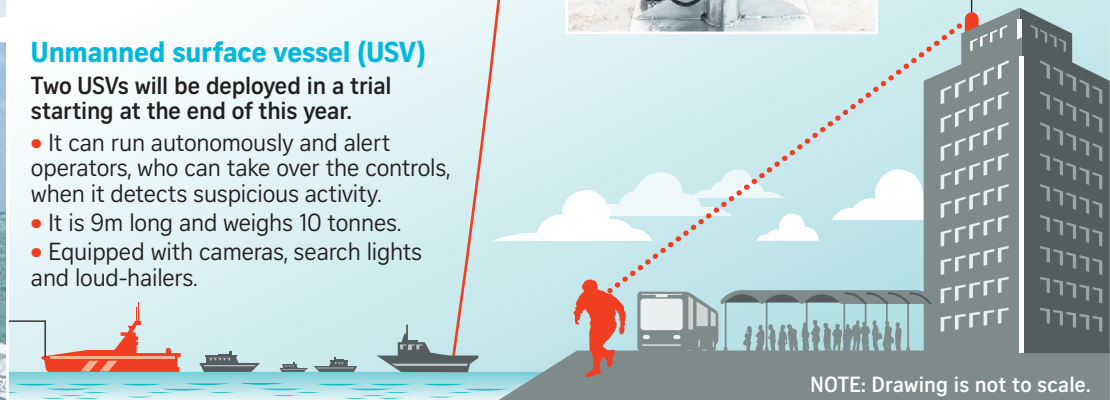
- It can run autonomously and alert operators, who can take over the controls, when it detects suspicious activity.
- It is 9m long and weighs 10 tonnes.
- Equipped with cameras, search lights and loud-hailers.

Panoramic electro-optics sensors

This surveillance system can monitor an area and alert operators if it detects suspicious activity.



- Sensors will be deployed to cover the northern and southern waters from 2018.
- Offers a 360-degree view around the sensor.
- Last November, a type of electro-optic sensor detected a radicalised Bangladeshi foreign worker trying to escape Singapore.



NOTE: Drawing is not to scale.