

# Robocop

Peter (Patrol and Traffic Enforcement Robot) is being used by security services provider Certis to assist in kerbside patrol and enforcement operations at Jewel Changi Airport.

- Operating between **9am and 5pm** daily, Peter is a fully autonomous robot.
- It alerts enforcement officers in cases where vehicles disregard traffic rules or affect traffic flow when waiting or parked at the kerbside.
- Though it is currently deployed for **45 minutes** at a time, Peter is capable of running for between **eight and 12 hours** without recharging.



## Connected

Peter has a secure connection to the Jewel smart operations centre run by Certis and is able to stream video of what it "sees" to the centre.



## Sensors

It is equipped with a number of lidar (light detection and ranging) and sonar sensors for navigation, as well as 360-degree 3D lidar to detect vehicles during the day and at night.

## Deterrence

- A large LCD display on Peter's body alerts drivers of parked cars to move off to allow for smooth traffic flow at Jewel.
- The robot is also equipped with red, white and blue strobe lights and stereo speakers to enhance its visibility and to play audio messages and alerts.



Peter alerting driver parked at the kerbside to remove the vehicle.