

Functionalities and Privacy Protection Measures of Smart Lamppost

Transport Department:

| Smart Device | Functionality of Smart Device | Collection of Data | Privacy Protection Measures |
|---------------------|---|---|--|
| Bluetooth detector | To detect journey time and average vehicular speed for sharing traffic information with the public | Average vehicular speed and journey time | Only extract part of Media Access Control (“MAC”) address for matching MAC address is deleted immediately after analysis |
| Panoramic camera | To collect real-time traffic data for sharing to the public as well as traffic monitoring | Real-time traffic snapshot images for open up to public | Snapshot image is at low resolution which is impossible for identification of vehicle number plates and facial recognition |
| | To collect traffic volume using the roads by types through licence plate numbers of vehicles | Use of roads by different vehicle classes | The license plate number will be encrypted before transmission and deleted after analyzing the vehicle classes in the backend |
| Thermal detector | To collect data on traffic speed and traffic flow through analytics of thermal images | Real-time traffic data, including traffic speed and traffic flow | Snapshot image is at low resolution which is impossible for identification of vehicle number plates and facial recognition |
| Surveillance camera | To monitor traffic conditions for enhancing the efficiency of handling traffic incidents and traffic management. Some real-time traffic condition snapshot images will also be shared with the public | Real-time traffic conditions Real-time traffic condition snapshot images for open up to public | No recording Snapshot image is at low resolution which is impossible for identification of vehicle number plates and facial recognition |

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Environmental Protection Department:

| Smart Device | Functionality of Smart Device | Collection of Data | Privacy Protection Measures |
|---|---|--|---|
| Air quality sensor | To collect air quality data at district level | Collect data on concentration of nitrogen dioxide and concentration of PM2.5 | Information does not involve personal data |
| Panoramic camera with Artificial Intelligence | To test the detection of illegal fly-tipping at black spots with real-time recording of condition on street and public area | Fly-tipping activities at district level | Notices are put up at prominent locations, and data is removed as soon as the case is over. |

Hong Kong Observatory:

| Smart Device | Functionality of Smart Device | Collection of Data | Privacy Protection Measures |
|-----------------------|---|---------------------|--|
| Meteorological sensor | To collect meteorological data at district level including temperature, humidity, wind speed and direction, rainfall, UV, gamma radiation, etc. | Meteorological data | Information does not involve personal data |

Lands Department:

| Smart Device | Functionality of Smart Device | Collection of Data | Privacy Protection Measures |
|---|---|-----------------------------------|--|
| Bluetooth transmitters, radio frequency identification (RFID) tag and Geo-QR code | To provide accurate positioning services to support the development of related applications by the Government and the industry, such as providing information of public facilities to the public and visitors | Accurate geographic location data | Information does not involve personal data |