

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

Functionalities and Privacy Protection of Smart Lamppost

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