

Data collected by smart lampposts in Hong Kong Science Park

Company name	Type or field of data	Usage of data	Technology/ system used for collecting data and data format	Frequency of data updating
1. Beghelli Asia Pacific Limited	Weather data, including: temperature, humidity, pressure, wind speed, wind direction, noise level	Weather observation	Sensor	Every 20 minutes, or as needed
	Colour Image	Real-time viewing of road conditions near bicycle parking spaces and road conditions near the lamppoles; no image storage	CCTV	Video streaming
2. Infineon Technologies Hong Kong Limited	Traffic data, including: number of vehicles, speed, driving direction	Traffic management, road design	Radar sensor	As needed, e.g. when a car enters the in-scope areas
	Image	Verification of the operating conditions of radar sensor, experimental use; no image storage	Verification lens	Video streaming
	LED lamp operating data	Switch on/off and adjust LED output luminosity	Cloud	As needed
	Smart lamppole operating electrical parameters	Monitor lamppole operating conditions	Wire transmission	Real-time
3. Inspiring Light Electronics Software Development Limited	Ambient brightness	Switch on/off and adjust LED output luminosity	Lux photometric sensor, LoRa communication gate	Every 15 minutes
	Weather data, including: temperature, humidity, carbon dioxide levels	Weather observation	Sensor	Every 15 minutes, or as needed
4. Siemens Limited	Ambient brightness	Switch on/off and adjust LED output luminosity	Photometric sensor	Every 20 seconds, or as needed

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	Road traffic data	Adjust LED output luminosity, energy saving, traffic management	CCTV	Video streaming
	Environmental data, including: temperature, humidity, pressure, PM2.5, PM10, VOC, NO2, SO2, CO, O3, noise and vibration levels	Environmental observation	Sensor	Every 20 seconds, or as needed
5. United Technologies Global Limited	Weather data, including: temperature, humidity, pressure, wind speed, wind direction, UV, PM2.5, CO, NO/NO2, O3	Weather observation, air quality monitoring	Sensor	Every 30 minutes, or as needed
	Ordinary images: traffic & people flow	Real-time viewing of road conditions near the lamppole; no image storage	CCTV	Video Streaming
	Smart lamppole operating electrical parameters	Monitoring operation condition of lamppole , energy saving	Wire transmission	Real-time