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# 遥感学报

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# 遥感学报

Yaogan Xuebao

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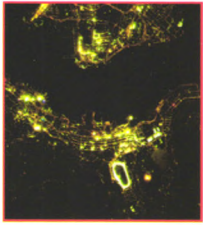
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## 封面说明

About the Cover

中国香港维多利亚港的夜光影像

The nighttime light image of Victoria Harbour Hong Kong, China

封面图片为吉林一号视频卫星 03 星于 2017 年 6 月 28 日获取的中国香港维多利亚港的夜光影像。吉林一号星座由长光卫星技术有限公司研制运营，由光学 A 星、视频卫星（01、02、03 星）以及双模式卫星组成。视频卫星分辨率 0.92 m，幅宽 11 km×4.5 km，具有多种成像模式，包括：凝视视频模式、半凝视模式、同轨多点模式、推扫模式、夜光模式以及惯性空间模式。吉林一号双模式卫星是中国首颗具有红边波段的米级分辨率光学遥感卫星，推扫相机全色分辨率优于 1 m，多光谱分辨率优于 4 m，包含蓝色、绿色、红色、红边及近红外波段，能极大提升植被长势监测、病虫害识别及理化参数估算的精度，是植被定量遥感的重要谱段。

The cover image shows the nighttime light of Victoria Harbour Hong Kong, China, which was obtained on June 28, 2017 by the JL-1 video satellites. JL-1 satellite constellation, which is constructed and managed by CGSTL (Changguang Satellite Technology Co., Ltd.), consists of multiple types of remote sensing satellites: JL-1 optical-A satellite, JL-1 video satellites (01,02,03), JL-1 dual-mode satellite. JL-1 video satellites have a resolution of 0.92 m and a swath of 11 km by 4.5 km. JL-1 video satellites are also available in multiple imaging modes as: gaze video, semi-gaze video, multi-shooting in one orbit, push-broom, noctilucous imaging mode and inertial space mode.

By continuously launching satellites to expand coverage, JL-1 dual-mode satellite is able to acquire video with resolution within 1 m, covering waveband of red, green and blue. Spatial resolution of video camera is better than 1 m in panchromatic, while multi-spectrum resolution is within 4 m, covering waveband of blue, green, red, red-edge and NIR. The JL-1 dual-mode satellite is Chinese first optical remote sensing satellite covering red-edge band with a resolution of meter-level. As red-edge band being a crucial wave band criteria in quantitative remote sensing of vegetation, this advantage grants the JL-1 dual-mode satellite extraordinary precision in vegetation growth monitoring and diseases diagnosis and evaluation of physicochemical parameters.

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