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Yaogan Xuebao

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About the Cover

吉林一号星座获取的武汉雷神山医院高分辨率遥感影像

The image of Leishenshan hospital in Wuhan by the JL-1 satellite constellation

封面底图为“红旗一号-H9”2020年1月31日获取的武汉雷神山医院建设过程中的高分辨率遥感影像，左上角的小图为“吉林一号视频07星”2020年2月4日获取的雷神山医院基本完工的高分影像。两颗卫星均属于吉林一号星座，由长光卫星技术有限公司研制运营，目前星座卫星数量已达到16颗。其中，“红旗一号-H9”宽幅型卫星是世界最大幅宽的亚米级卫星，幅宽达到136 km，全色分辨率0.75 m，多光谱分辨率3 m，包含蓝、绿、红、近红外4个波段。原始全色图像传函优于0.12，信噪比优于100，无控定位精度优于20 m，可实现大区域高分辨率影像快速更新，广泛应用于智慧城市、自然资源、生态环境等领域。吉林一号星座的数据下载查询网址：<http://mall.charmingglobe.com/>。

The base image of cover shows the Leishenshan hospital under construction in Wuhan, which is acquired on January 31 by JL-1 kf01. The top left image shows the Leishenshan hospital almost completed, which is acquired on February 4 by JL-1 sp07. The two satellites belong to the JL-1 satellite constellation, which has 16 satellites constructed and managed by Changguang Satellite Technology Co., Ltd.(CGSTL, the data website:mall.charmingglobe.com). JL-1 kf01 is the world's widest swath sub-meter satellite, with a swath width of 136 km, a panchromatic image resolution of 0.75 m, and a multispectral image resolution of 3 m, which includes four wavebands of blue, green, red and NIR. For the original panchromatic image, the MTF (Modulation Transfer Function) is higher than 0.12, the SNR (Signal Noise Ratio) is higher than 100 and the location accuracy without GCPs is lower than 20 m. JL-1 kf01 is used to realize the rapid update of high-resolution images in large areas and can be widely used in smart cities, natural resources, ecological environment and other fields.

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