

Indonesia's Forest Fire Monitoring and Management System

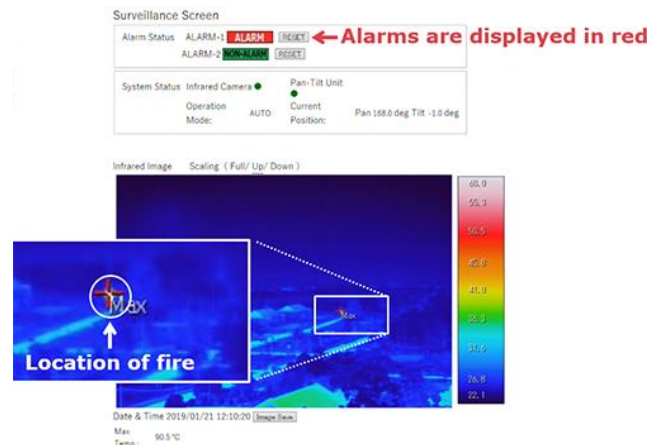
Indonesia experiences forest fires each year. These have become a significant social issue due to their numerous environmental, social, and economic impacts, such as impact on agriculture, loss of forest area, and on health, transportation, and sightseeing. Moreover, forest fires increase CO2 emissions.

NEC has been collaborating with Sumitomo Forestry Co., Ltd. since November 2017 on the Collaboration Program with the Private Sector for Disseminating Japanese Technologies by the Japan International Cooperation Agency (JICA). We are working with the University of Palangka Raya and the Central Kalimantan Regional Disaster Management Agency to promote "The Collaboration Program with the Private Sector for Disseminating Japanese Technologies for Forest Fire Monitoring and Management System." The evaluation of the system introduction has enabled the people who will use the system to confirm its effectiveness and utility.

The system monitors a wide area and rapidly detects the outbreak of fires and displays dispatch orders on the tablets of firefighting teams to enable emergency action. In addition, by sharing the status of the fire, the progress of firefighting activities, and other information through the tablets, the system supports effective and efficient firefighting activities.

To evaluate the system, a mock fire was started and the users confirmed that they were able to use the system to detect the fire outbreak, to dispatch firefighting teams, and to grasp the progress of firefighting. This enabled the local firefighting team to understand the effectiveness and utility of the system.

Based on the results, we will improve the system and its operation, with a view to full-scale introduction and expansion in FY2020.



Fire detection screen image by Infrared camera



Group photograph of local personnel who participated in evaluating the system