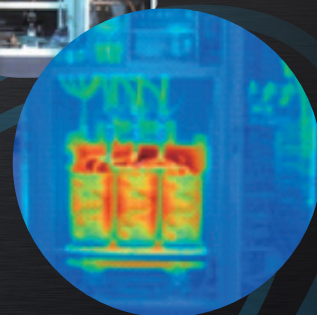


Electrical Equipment Diagnostic Service using Infrared Thermography Equipment



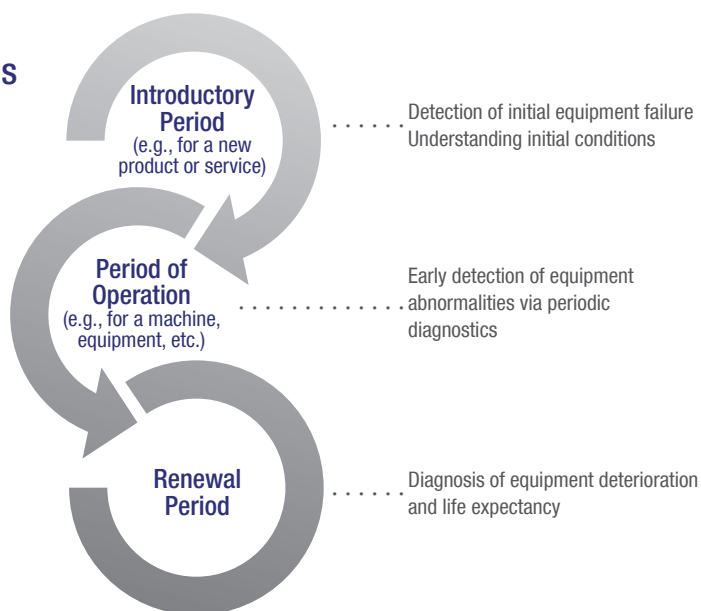
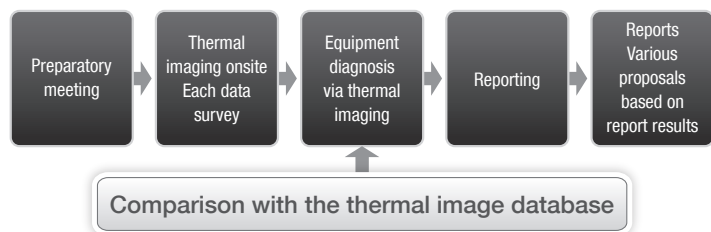
In power supply facilities that are required to operate stably 24 hours a day, 365 days a year, equipment is diagnosed under operating conditions.

Most deterioration and malfunctions in electrical equipment appear as partial heat generation. We have introduced an infrared thermography device to measure the temperature distribution of the equipment. It is possible to diagnose equipment that cannot be grasped via temperature measurements such as radiation thermometers and thermo labels until now, detect signs of deterioration or malfunction, and prevent accidents beforehand.

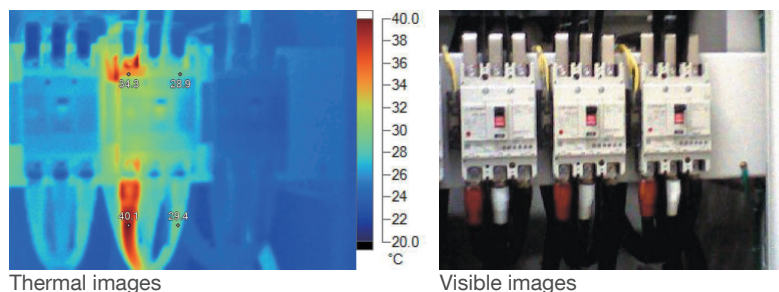
Features of Kokubu Electric's Thermal Imaging Camera System for Electrical Equipment Diagnosis

- Diagnosis of equipment in operation without shutting down
- Analysis based on a technical database accumulated over many years as only a switchboard manufacturer can
- Factory testing facilities that enable us to reproduce questions in the field
- Optimal proposals for customer facilities based on diagnosis results

Flow of Equipment Diagnosis



Report Sample




Marker for main heat image

Part	Temperature
MCCB primary-side R-phase terminal	34.3°C (93.74°F)
MCCB primary-side T-phase terminal	28.9°C (84.02°F)
MCCB secondary-side R-phase wire section	40.1°C (104.18°F)
MCCB secondary-side T-phase wire section	29.4°C (84.92°F)

Because both thermal and visible images can be obtained at the same time with a single shot, it is easy to assess the situation.

Until now, inspections of facilities on live lines have been conducted via human senses, such as checking meters and thermolabels on the board surface, as well as abnormal noises and odors, but with the addition of thermal image data, thermal stress due to the partial deterioration of facilities or the addition of facilities can be grasped as surface temperature data and used for evaluation.



[CAUTION] Thermal imaging diagnosis is a service that diagnoses equipment via temperature changes in the operating state of the equipment. If the diagnosis shows signs of abnormality, the equipment must be shut down for detailed investigation.