

SDC

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# TRANSMISSION LINE INSPECTION ROBOT



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## Description

Transmission lines are composed of cables with a steel core and aluminum strands, which can oxidize and break over time due to external interferences, leading to transmission line failure by cable rupture.

SDC is a line inspection robot that identifies corrosion and strand breakage prematurely. It features cameras, its own locomotion and lifting system, and software for data interpretation.

It is used on the line without the need for shutdown, and the system comes with control and rescue capabilities in case of any field problems.

### Inspeção:

- Identificar condições anormais, problemas e mau funcionamento, para se antecipar a eventuais problemas e indisponibilidade do mesmo.

### Predição:

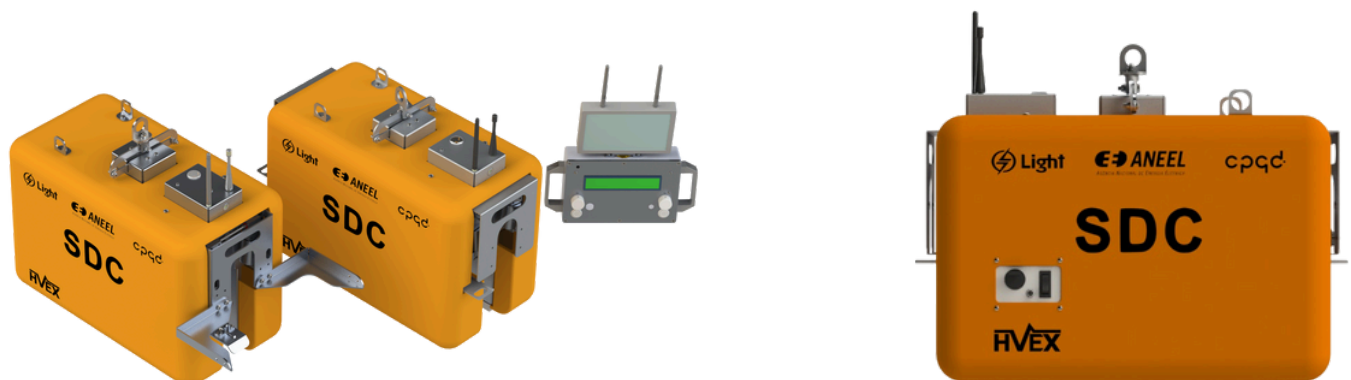
- Conduzir análise prévia de dados visando identificar e antecipar condições anormais, problemas e mau funcionamento.

### Digitalização:

- Automação de processos e atividades de forma a elevar a produtividade, a eficiência e a reduzir custos associados.

## Benefits

- Controlled displacement;
- Long-lasting battery;
- Analysis of phase cables and surge arrester cables;
- Scheduled, temporary, and manual inspection (remotely controlled);
- Intelligent analysis and event prediction;
- Inspection reports and integration with connected systems;
- Detection of cable corrosion and insulator chain failures;
- Snapshot imaging and local storage;
- Auto-check of systems and functionalities.



## Technical Specifications

Detection types	Cable breakage and corrosion
Image	Full HD
ACSR Cables	MCM 4/Swan to Partridge 266.8 Other diameters under request
Communication	GPRS  Radio Xbee pro
Speed	1,5 m/s
Movimentation	Through remote control  Bidirectional
Composition	1 Inspection robot  1 Rescue robot  1 remote control  1 ACSR sample kit  2 locking clips  1 charger for the robot  1 charger for the remote control

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