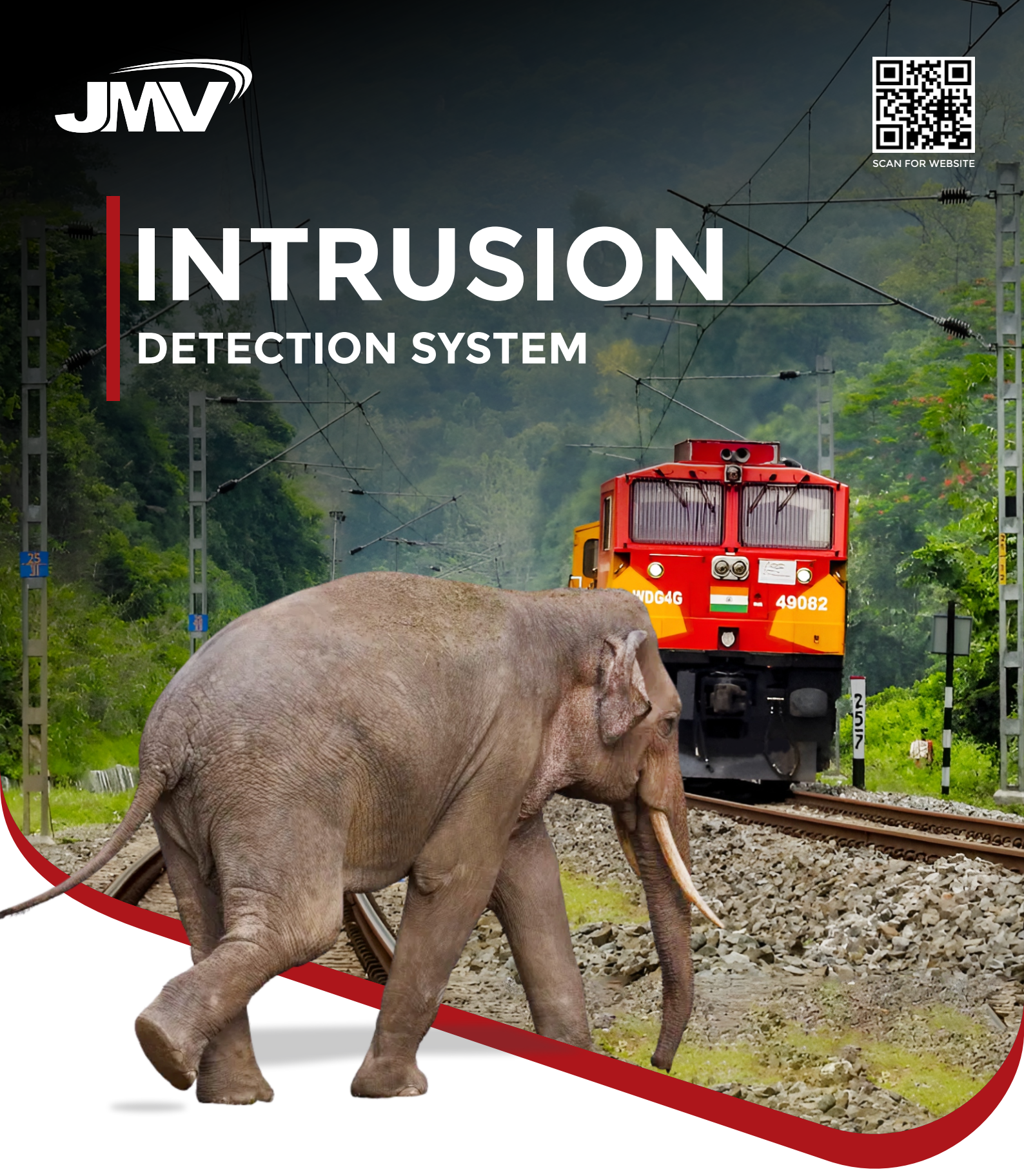
JMV

SCAN FOR WEBSITE

INTRUSION
DETECTION SYSTEM



ENSURING THE **SAFETY** OF THE **TRACK, WILDLIFE, & PASSENGERS**

CERTIFICATION BY

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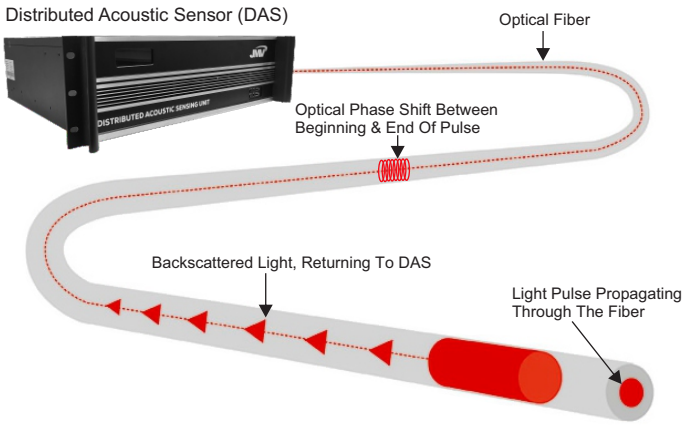
JMV LPS LIMITED

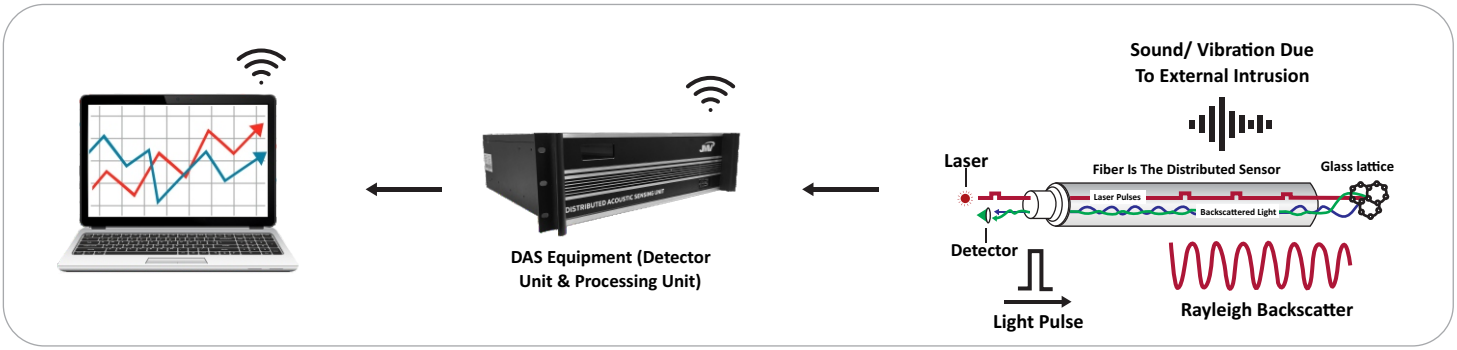
Intrusion Detection System

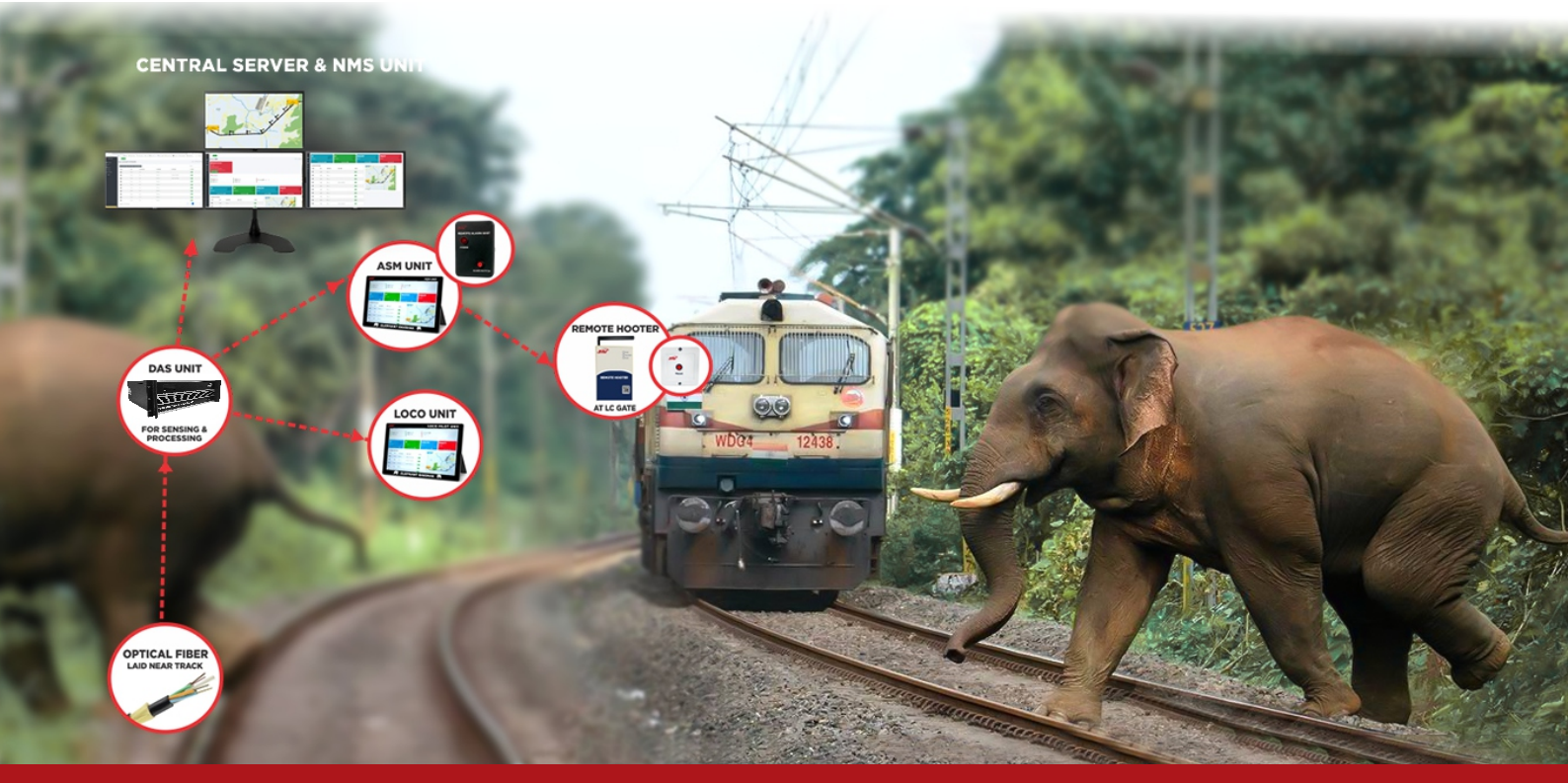
Elephant Rakshak (ER) employs cutting-edge fibre optic technology known as Distributed Acoustic Sensing (DAS) to enhance elephant safety. It detects acoustic signals along a fibre optic cable, enabling early detection of elephants in the elephant corridors and other events like train detection, digging activities, fibre cuts/losses etc. to enhance the overall railway safety and to protect elephants.

Technology

- The Laser pulses are periodically sent down an optic fibre cable, looking for Backscatter to perform temperature sensing and Rayleigh backscatter for pressure/acoustic sensing.
- The signature of the backscatter changes with change in temperature/acoustic energy.
- The entire length of the fibre optic cable acts like a sensor and every meter act like an independent thermometer/microphone.





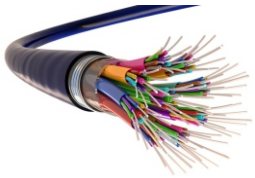


System Components:

DAS Unit

Reset Unit

ER Software



Fiber optic cable

ER Loco Pilot Unit (Tablet)

Power Backup

ASM Unit

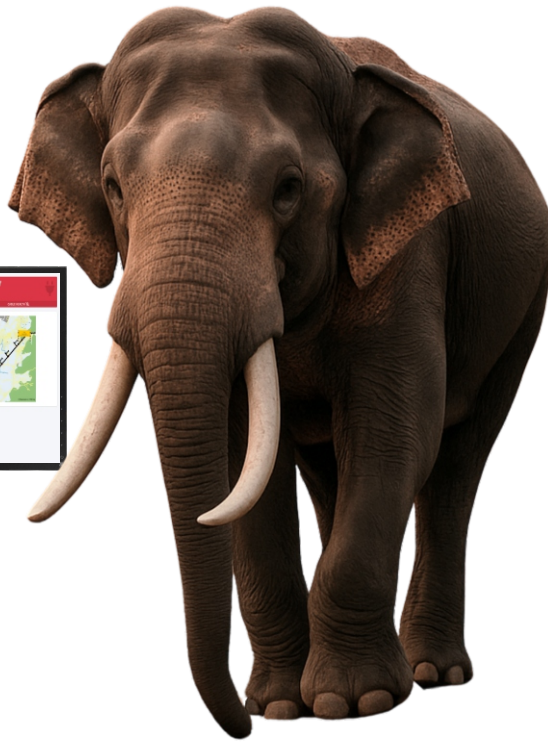
Remote Alarm Unit

IP Based Hooter

Key Features & Solution Range

The Elephant Rakshak features an advanced user friendly, single software platform to show real time:

- Elephant Movement Detection
- Detects digging activity on track
- Train Detection events
- Fiber Cuts/Losses.



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