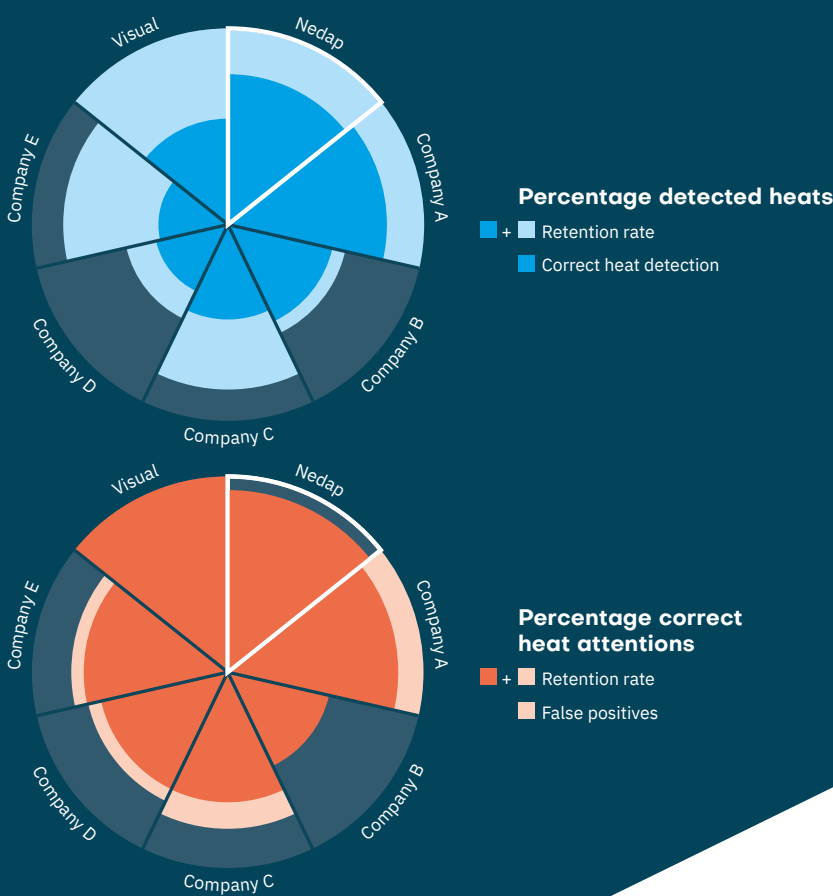


University of Kentucky:

# “Nedap Heat Detection reports cows in heat correctly and detects 20% more cows than visual observations”



**Experiment**

109 Cows in a modified G7G-Ovsynch that permitted estrous expression were watched for heats and fitted with Nedap SmartTags and heat detection devices from 5 other companies. True heat was determined using blood progesterone patterns up to 7 days after the probable day of the heat.

**Retention rate**

Percentage of cows that the devices delivered data on.

**Sensitivity**

Percentage of cows in heat that were correctly detected by the devices.

**Specificity**

Percentage of cows **not** in heat that were correctly detected by the devices.

**Conclusion**

Nedap SmartTags is one of the best devices for heat detection, it has a very high detection rate and only alerts cows that are actually in heat.

**Why is this important?**

Reproduction strategies that (partially) rely on heat detection need to have a high heat detection rate without high labor and animal disruption. Nedap Heat Detection can do just that.

Source: Mayo et al, Automated estrous detection using multiple commercial precision dairy monitoring technologies in synchronized dairy cows, Journal of Dairy Science, 2019

