

PETERSIME

OvoScan™

with Operational Excellence Technology



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2026



Training Outline

Traditional Temperature Control

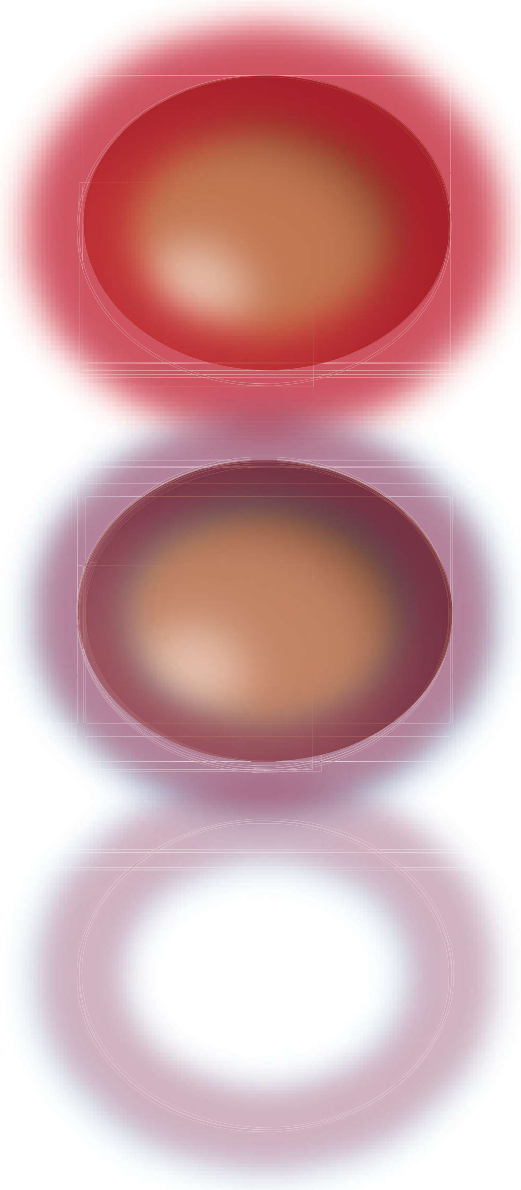
- Multi-Stage (Fixed Set Point)
- Single-Stage (Variable Set Point)

OvoScan™ Hardware / Software

Guidelines when Using OvoScan™



Traditional Temperature Control



Fixed set point - Multistage

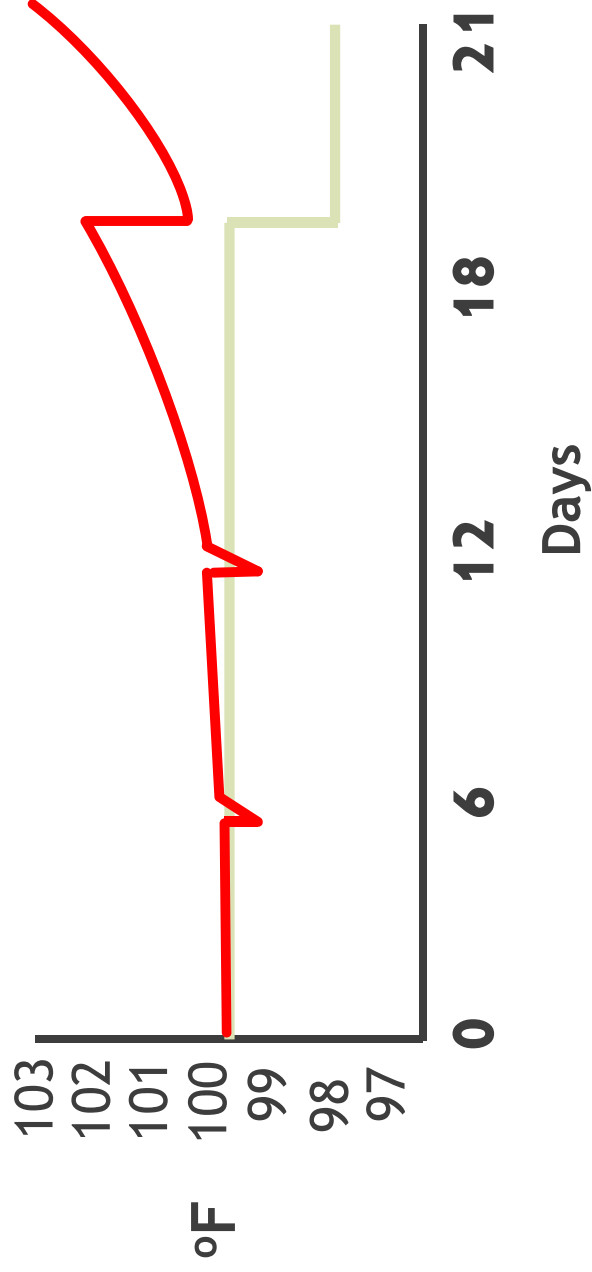


99.5 - 99.7°F



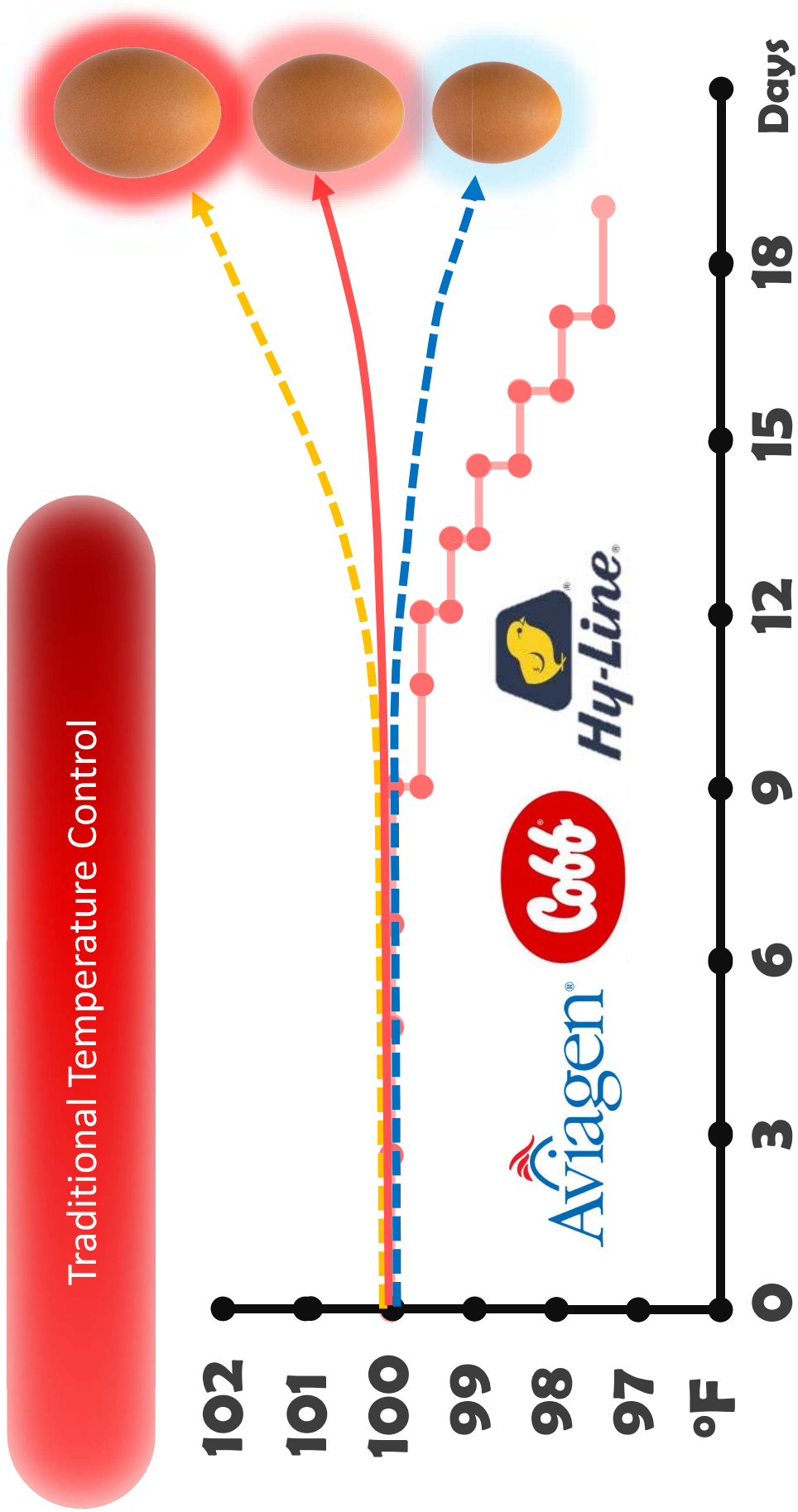


Traditional Temperature Control



$$T_{\text{egg shell}} \neq T_{\text{air}}$$

— Temperature Set Point — Egg Shell Temperature

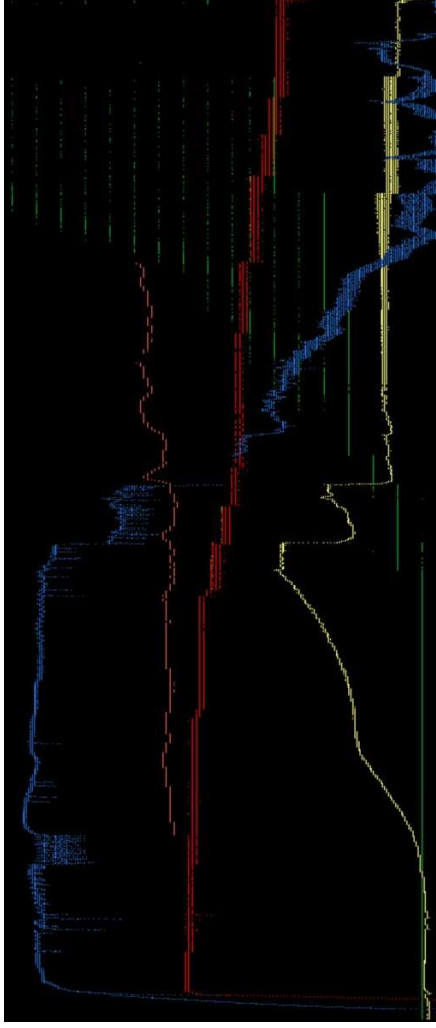


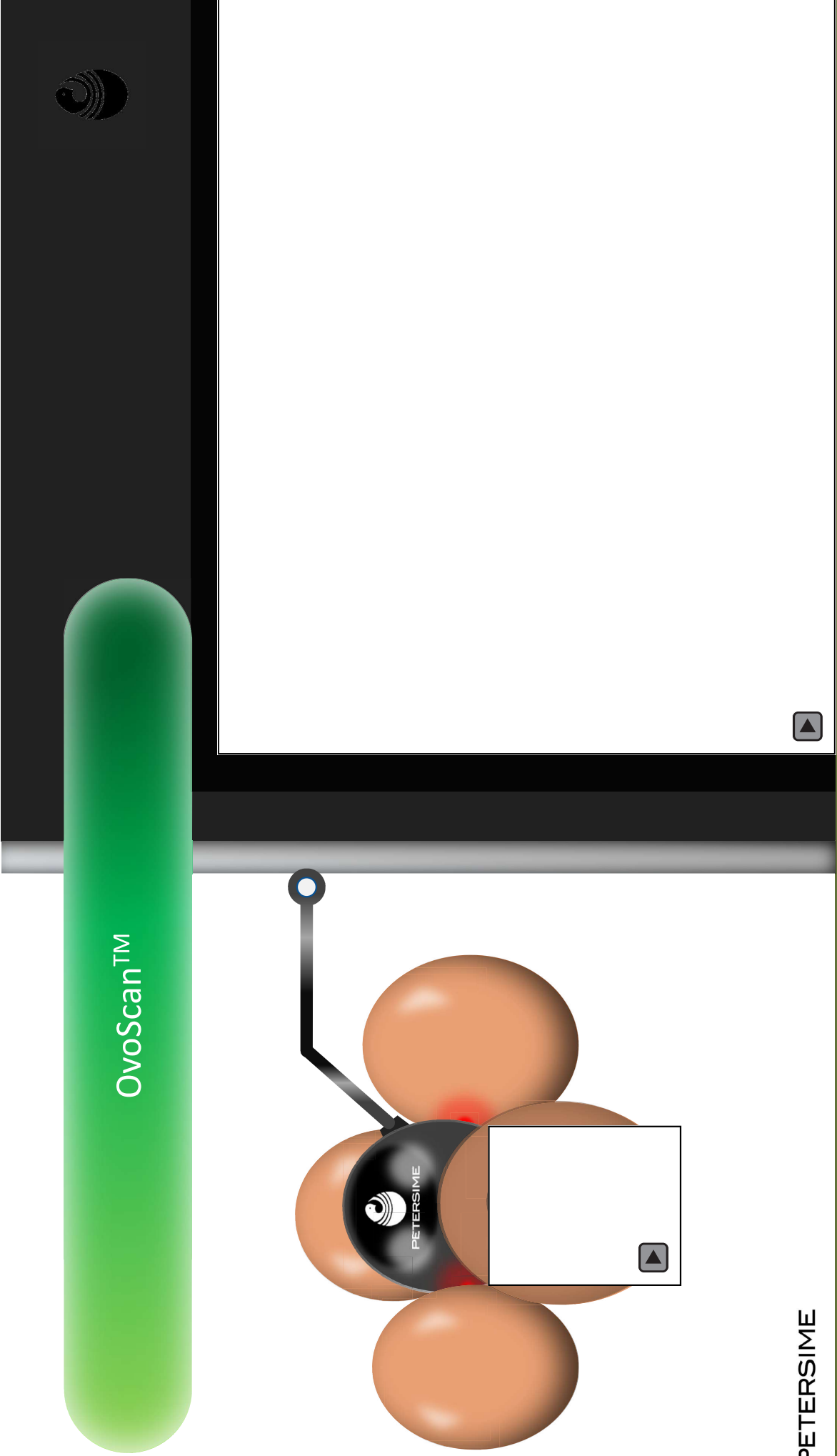
Variable set point - Single-stage

Traditional Temperature Control

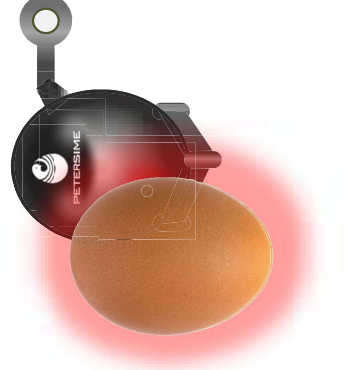
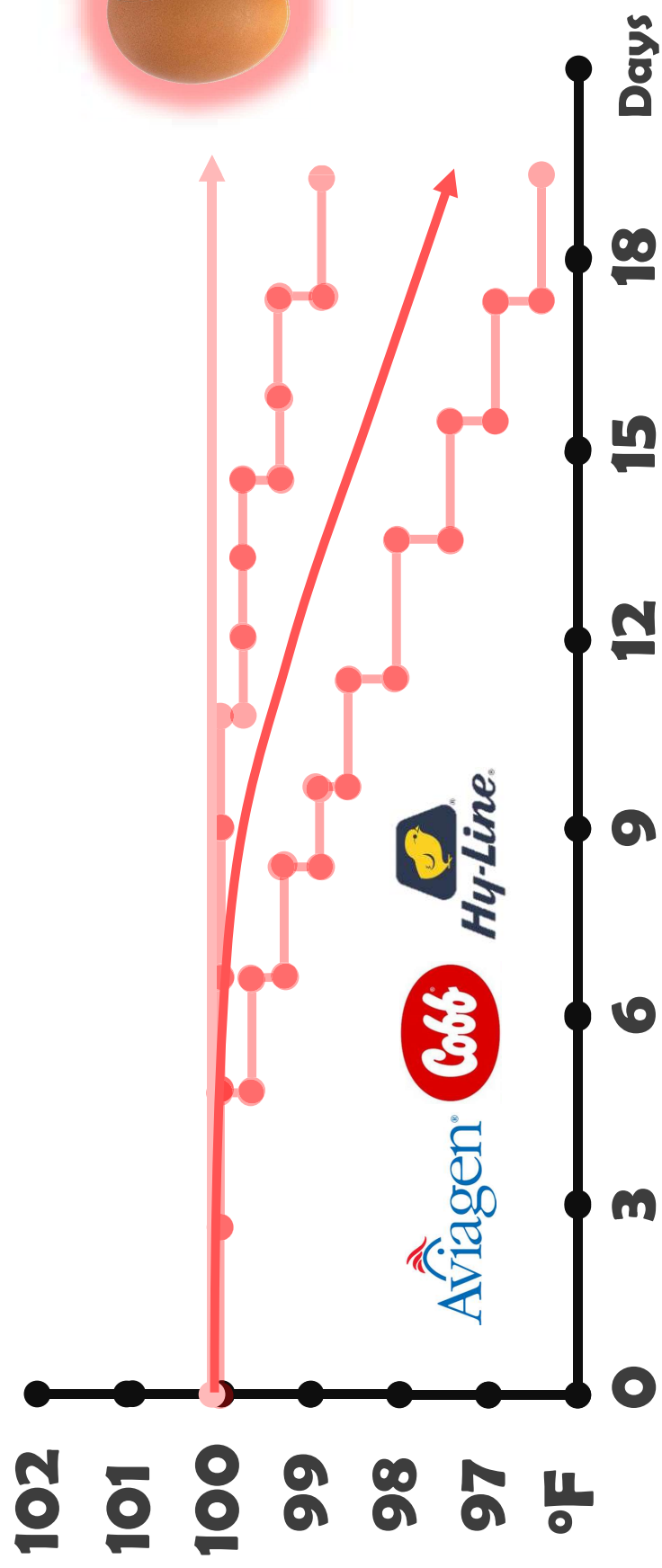


- Since the air temperature set points are fixed, the eggshell temperature maybe going up or going down.

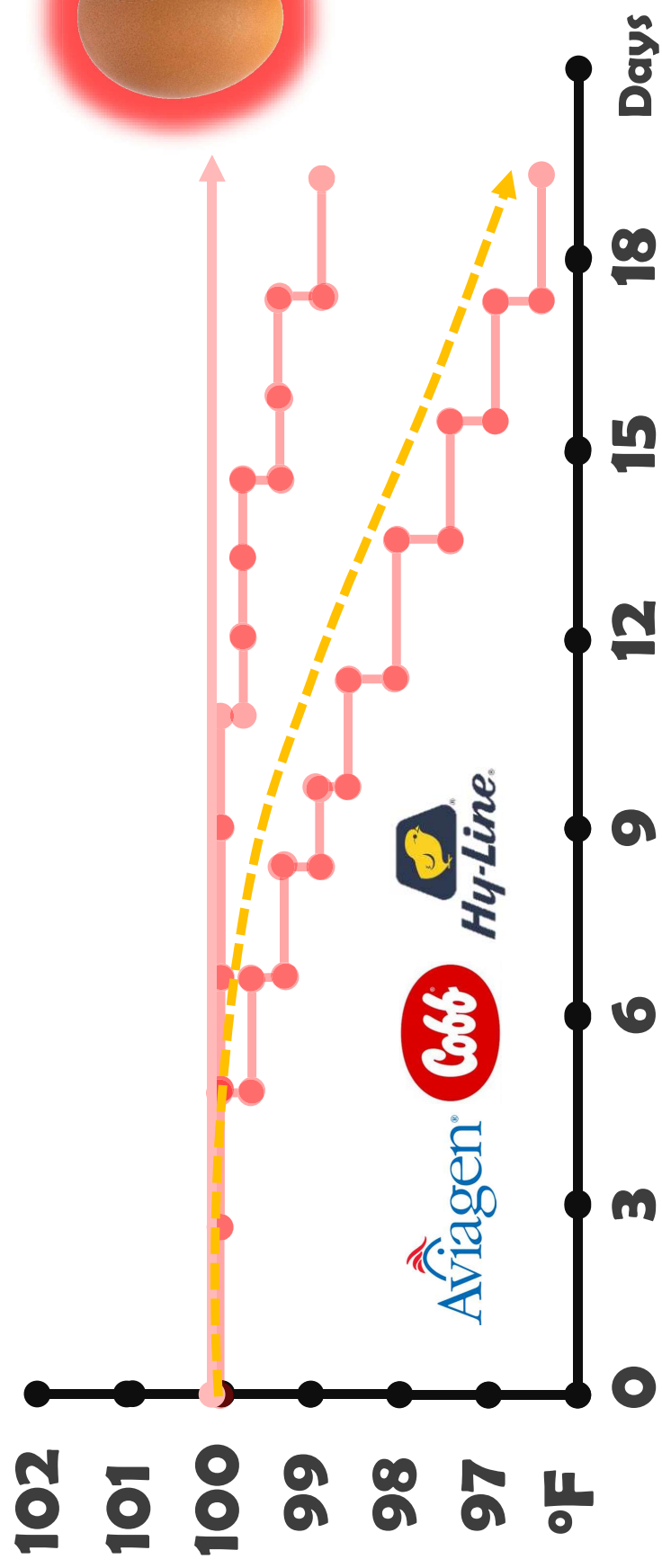




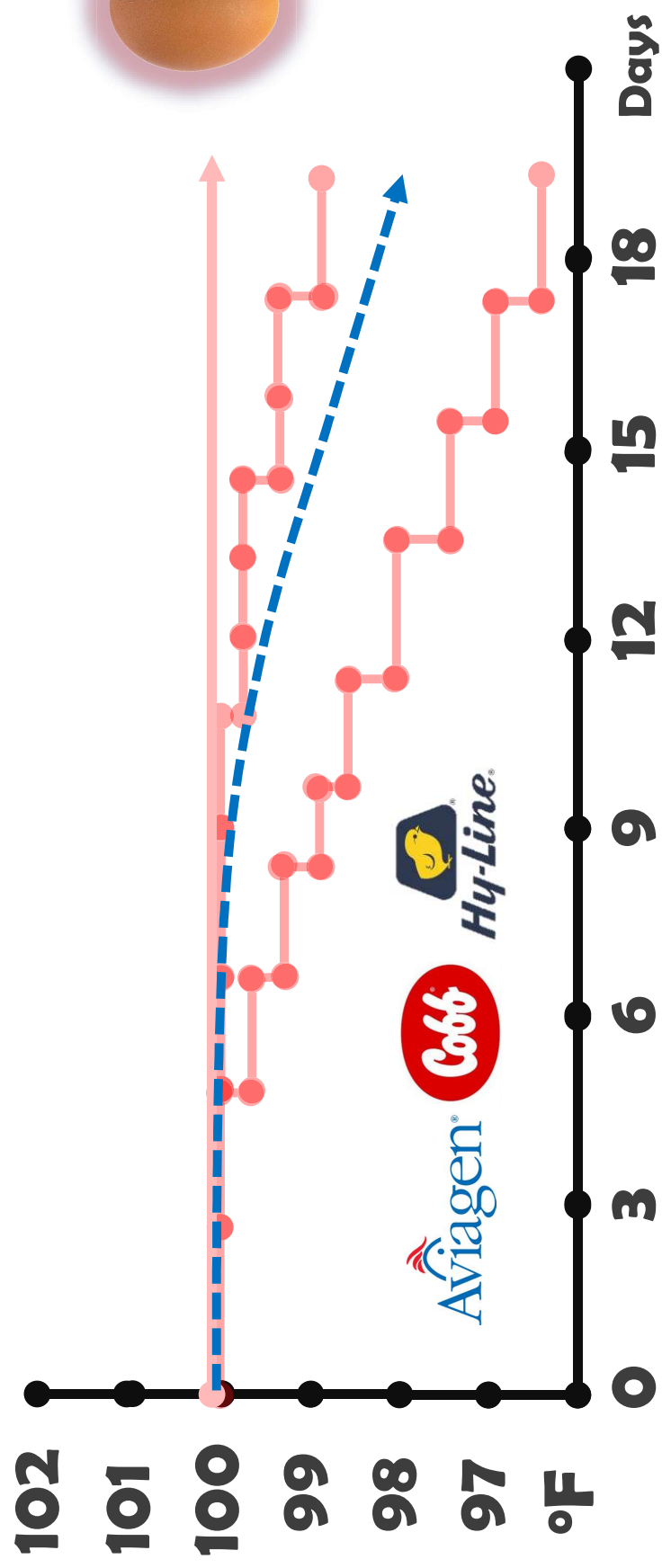
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OvoScan™ set point - Single-stage



OvoScan™ set point - Single-stage



OvoScan™ set point - Single-stage

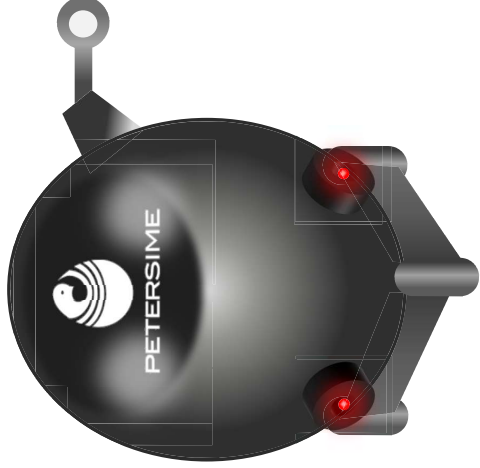
OvoScan™ Hardware



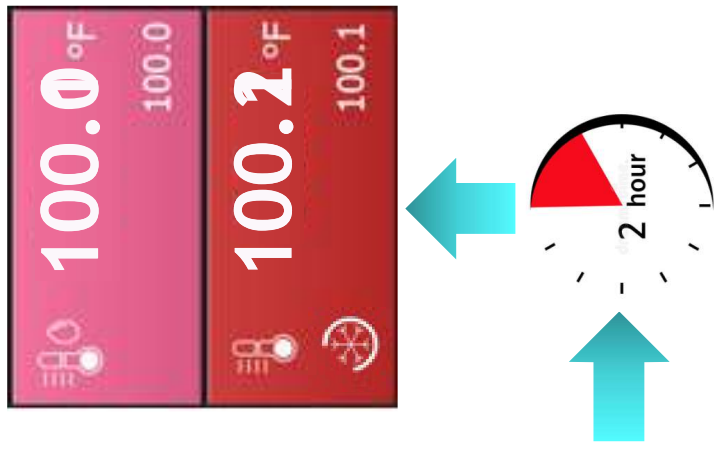
A device to measure eggshell temperature during incubation

Each module have 4 sensors to measure temperature of four eggs

OvoScan™ Software



- Eggshell temperature is taken every 2s (30 per minute)
- 120 readings per module (4 eggs)
- Ignores values that are out of range (i.e. infertile egg)
- Calculates average temperature every minute

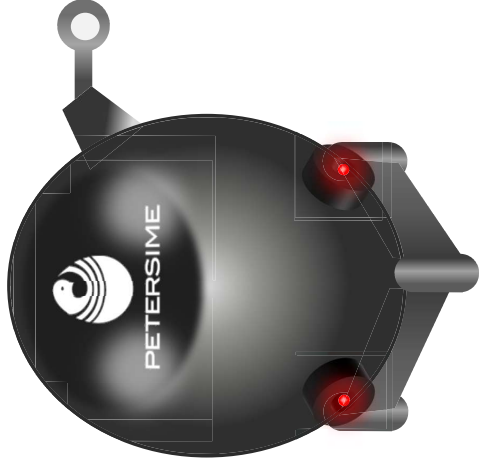


OvoScan™ Software



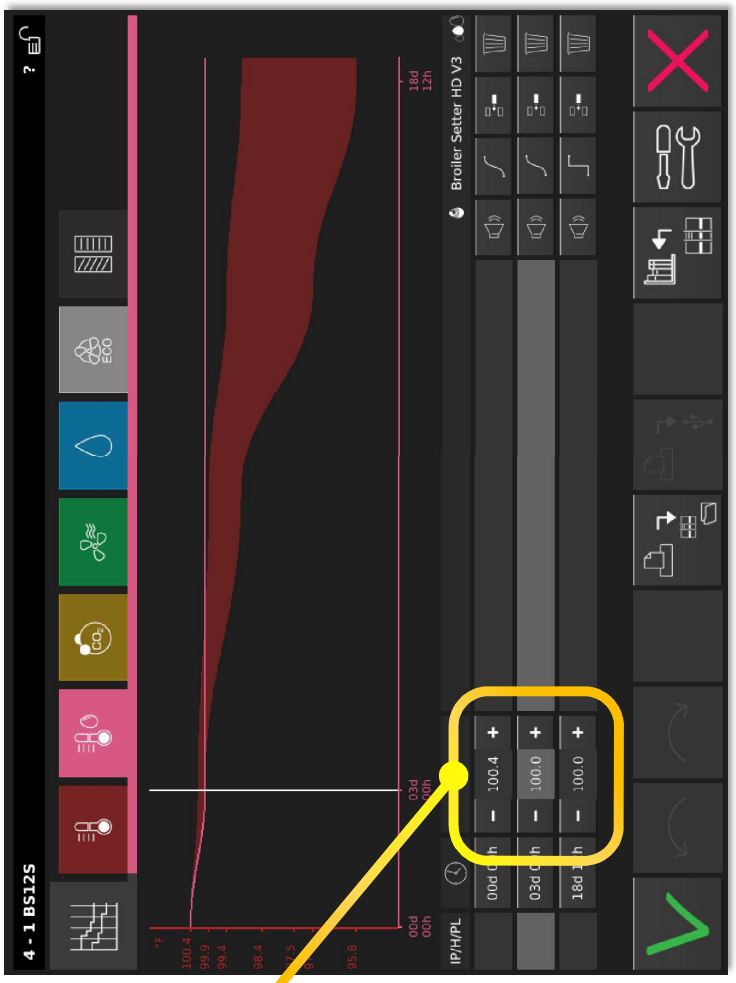
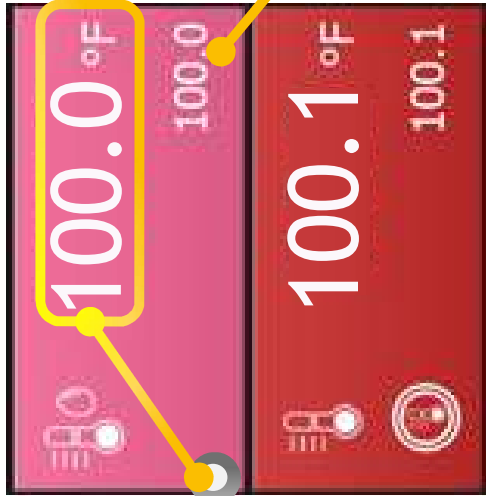
- Initial reading will be displayed on the third day of incubation

00 days



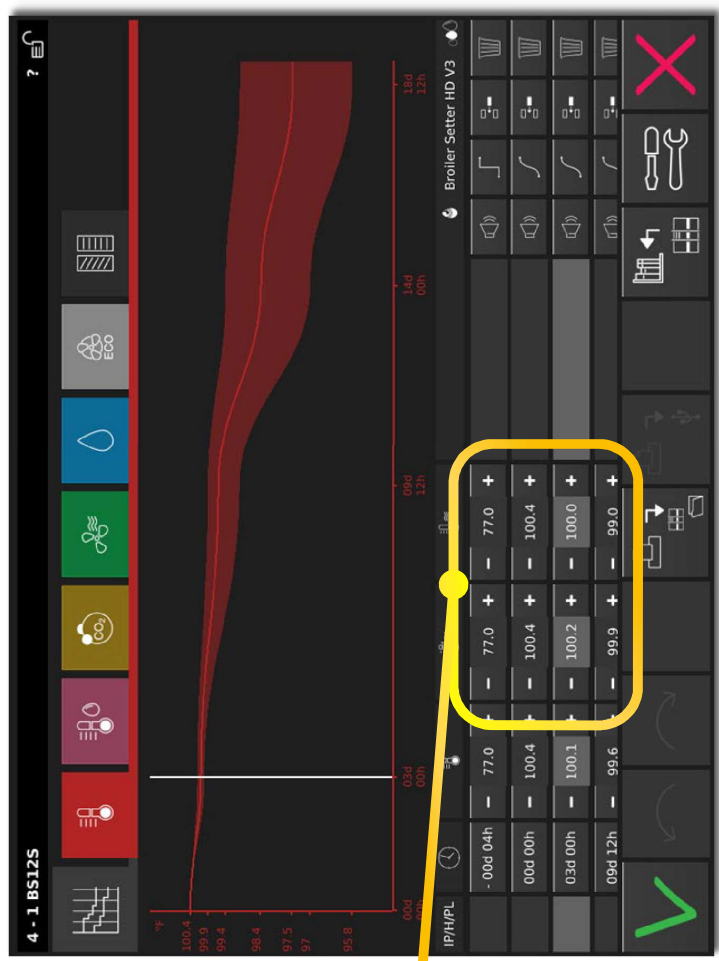
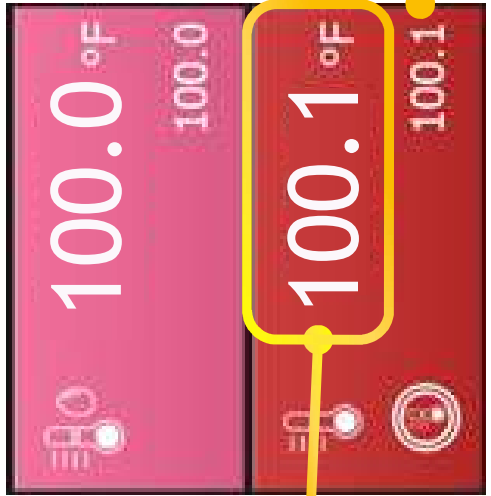
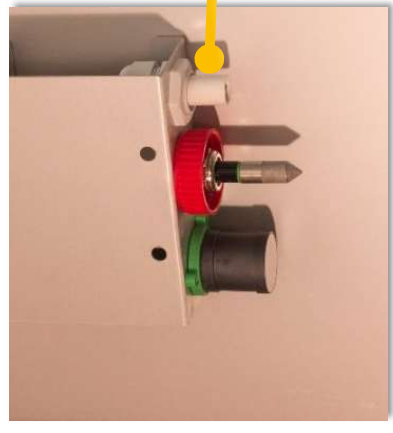


OvoScan™ Software





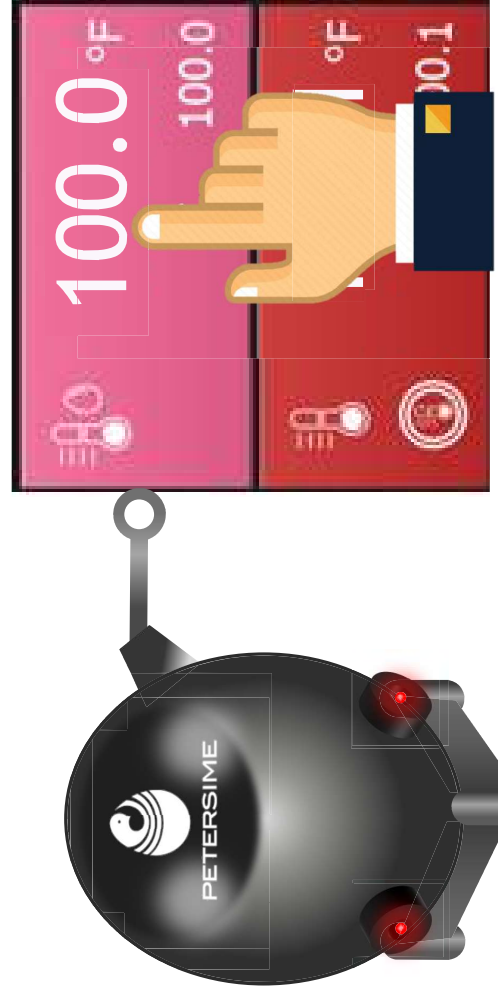
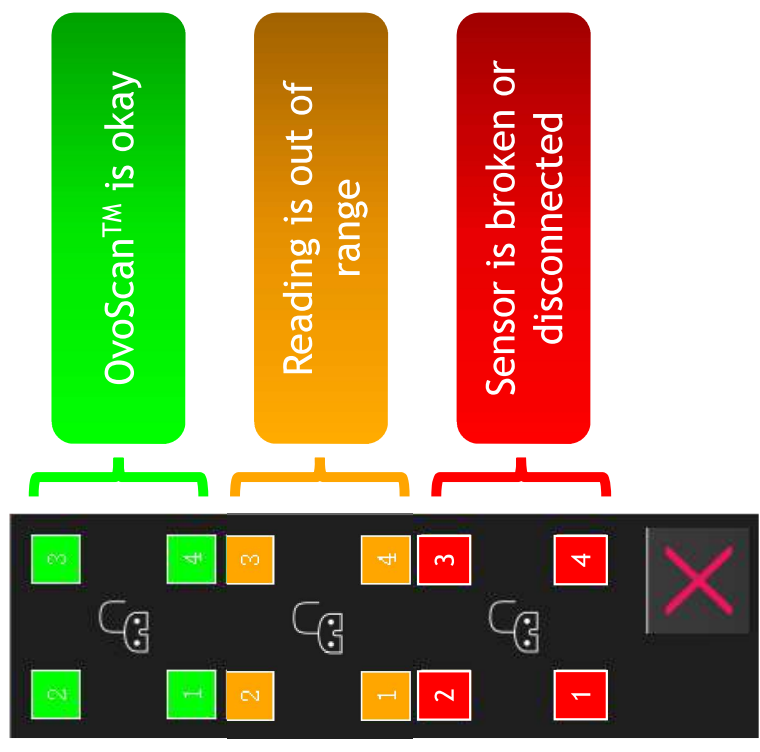
OvoScan™ Software



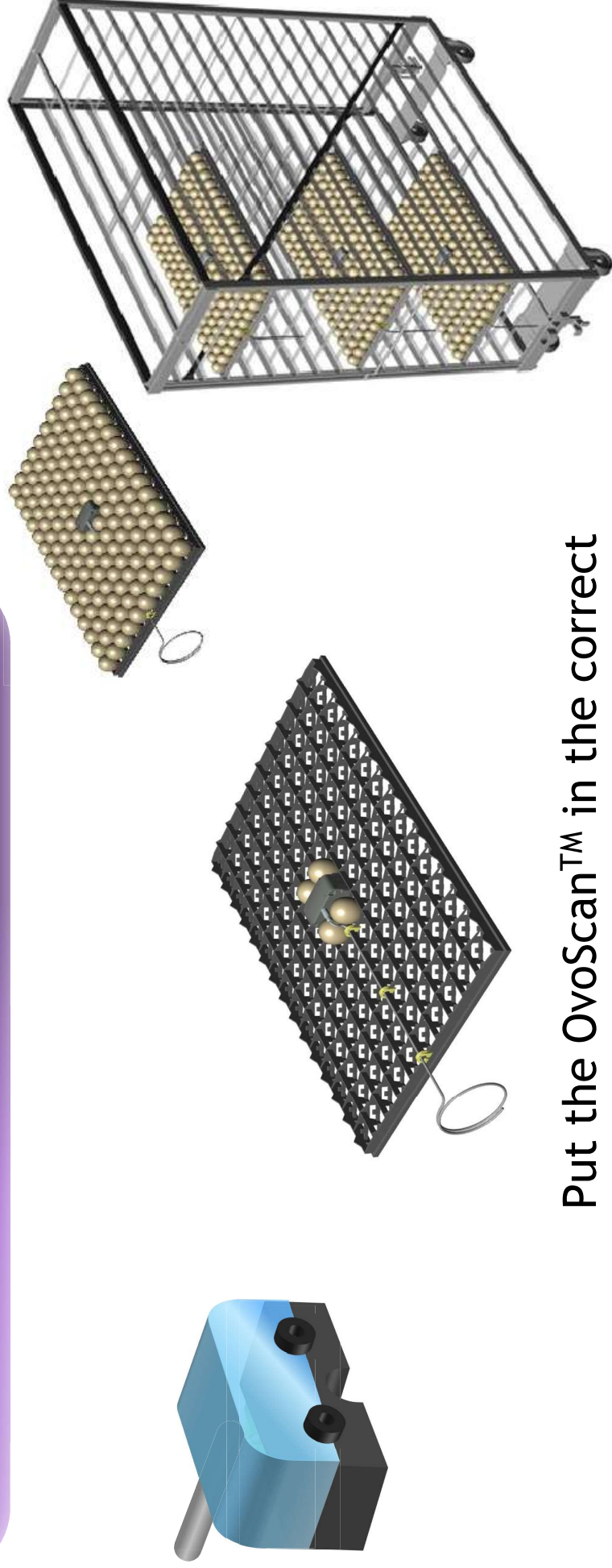
Incubator Sensors



OvoScan™ Software

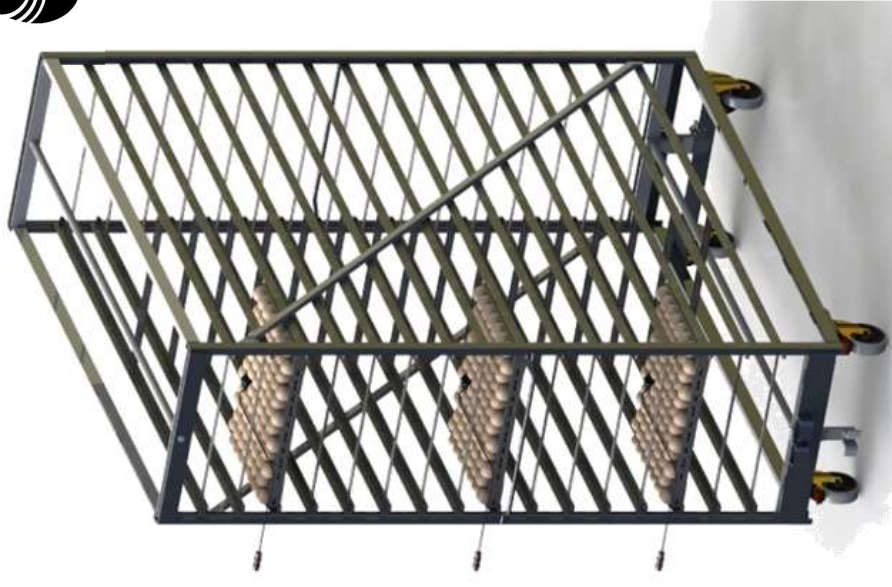
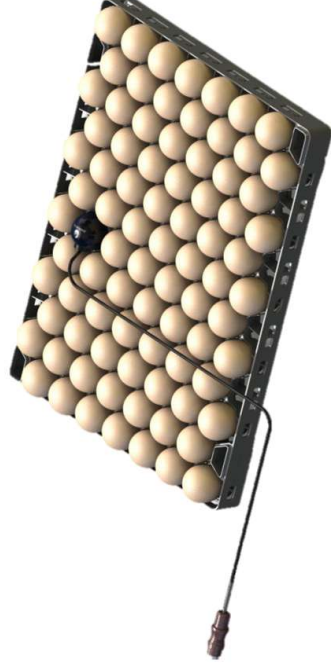


Guidelines when Using OvoScan™



Put the OvoScan™ in the correct location on the tray and in the trolley

Guidelines when Using OvoScan™



Put the OvoScan™ in the correct location on the tray and in the trolley

Guidelines when Using OvoScan™

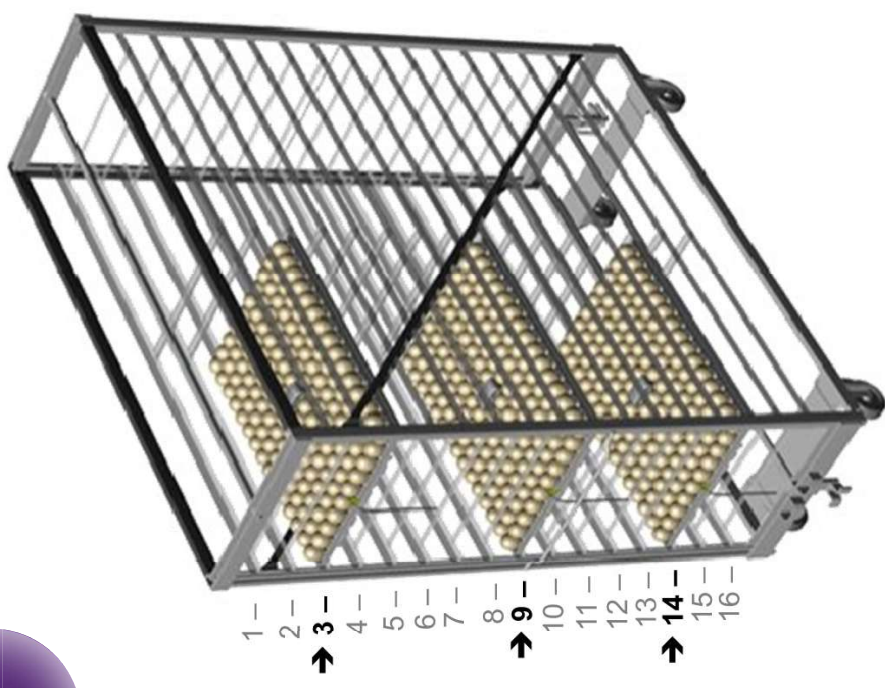
► Position in the trolley



16 levels - 3, 9, 14th

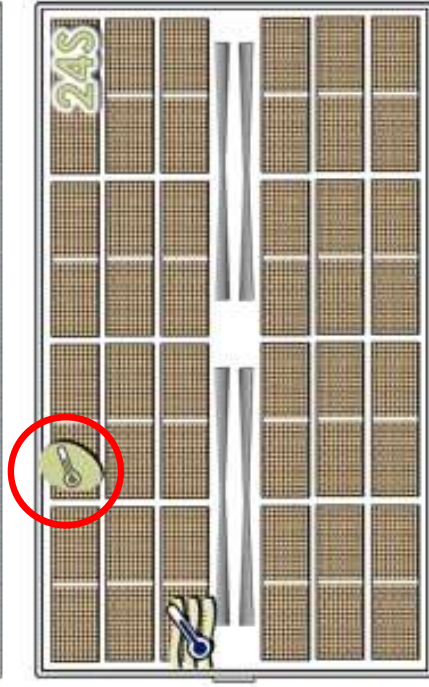
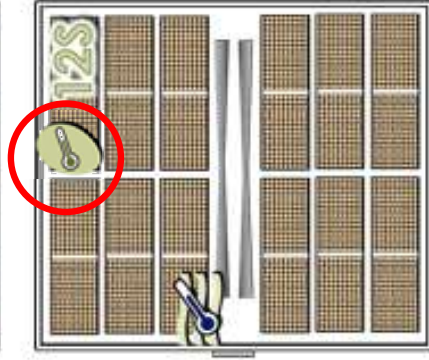
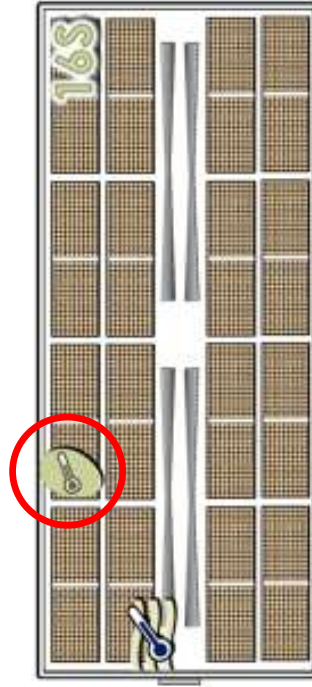
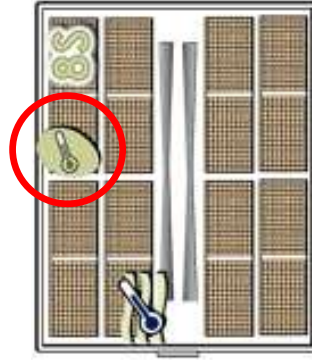


14 levels - 3, 8, 12th



Guidelines when Using OvoScan™

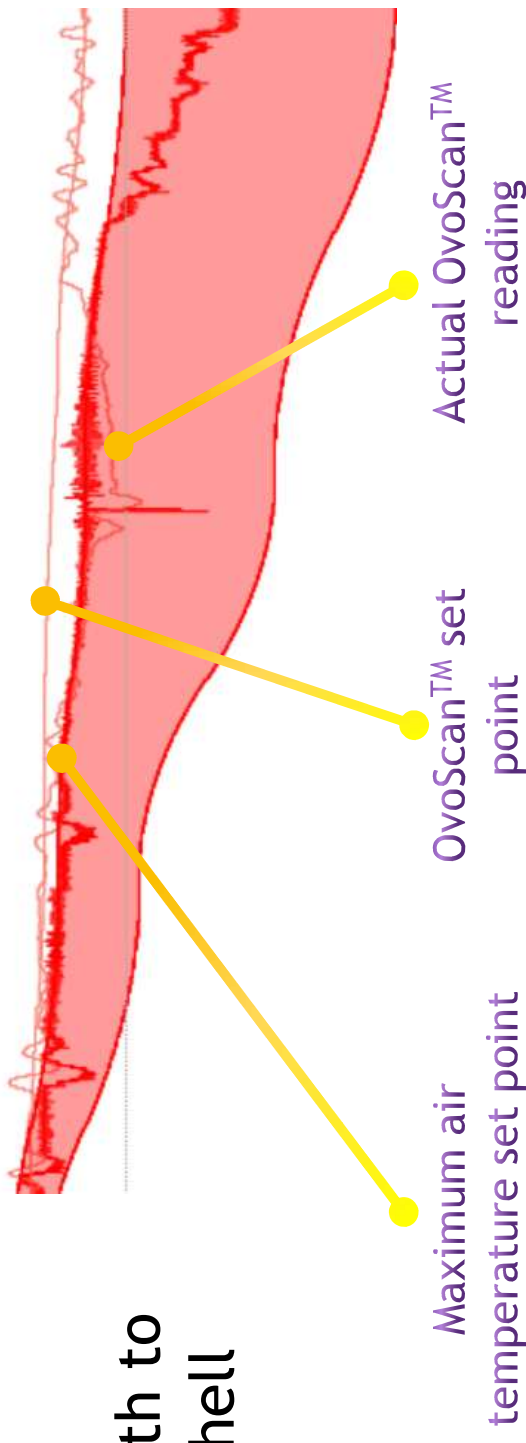
- Position inside the incubator



Guidelines when Using OvoScan™



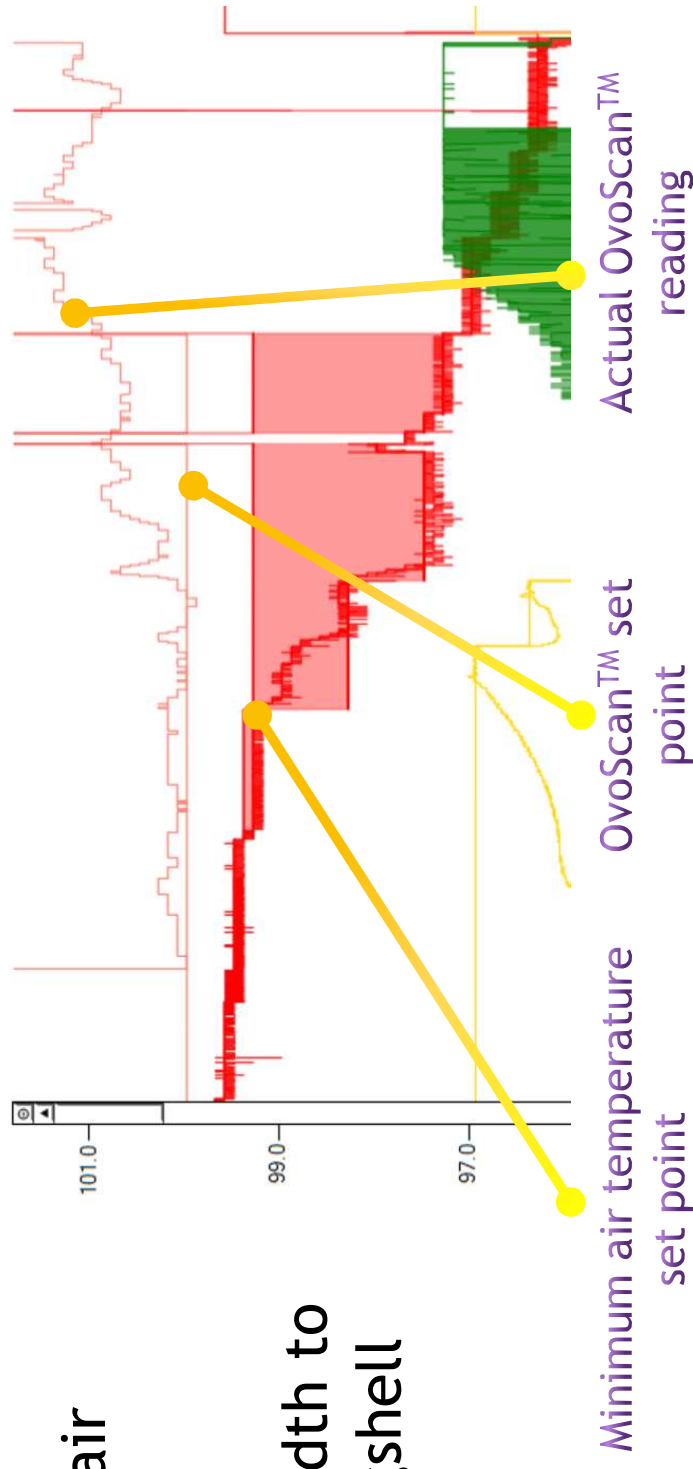
- Make sure the air temperature program have enough bandwidth to control the eggshell temperature.



Guidelines when Using OvoScan™



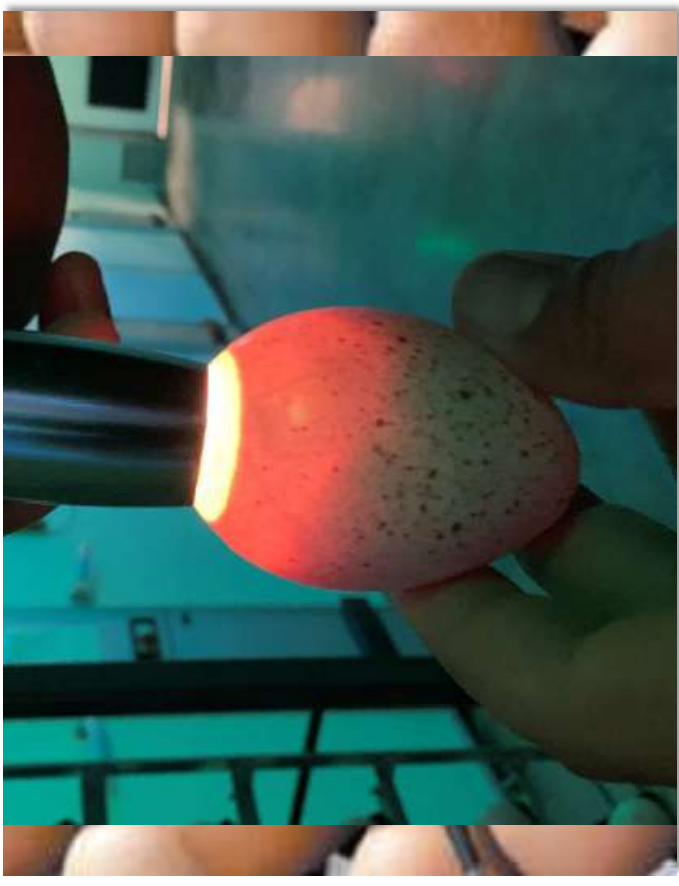
- Make sure the air temperature program have enough bandwidth to control the eggshell temperature.



Guidelines when Using OvoScan™



- ▶ As much as possible, the eggs around the OvoScan™ must be uniform in size and free from deformities
- ▶ When uniformity drops below 85%, candle the eggs around the OvoScan™ and replace the infertile if any.



Guidelines when Using OvoScan™

- ▶ Never leave empty spaces inside the setter.



Guidelines when Using OvoScan™

- Keep the OvoScan™ modules on a dry and clean environment. Never leave them hanging in the setter connected to the ports.



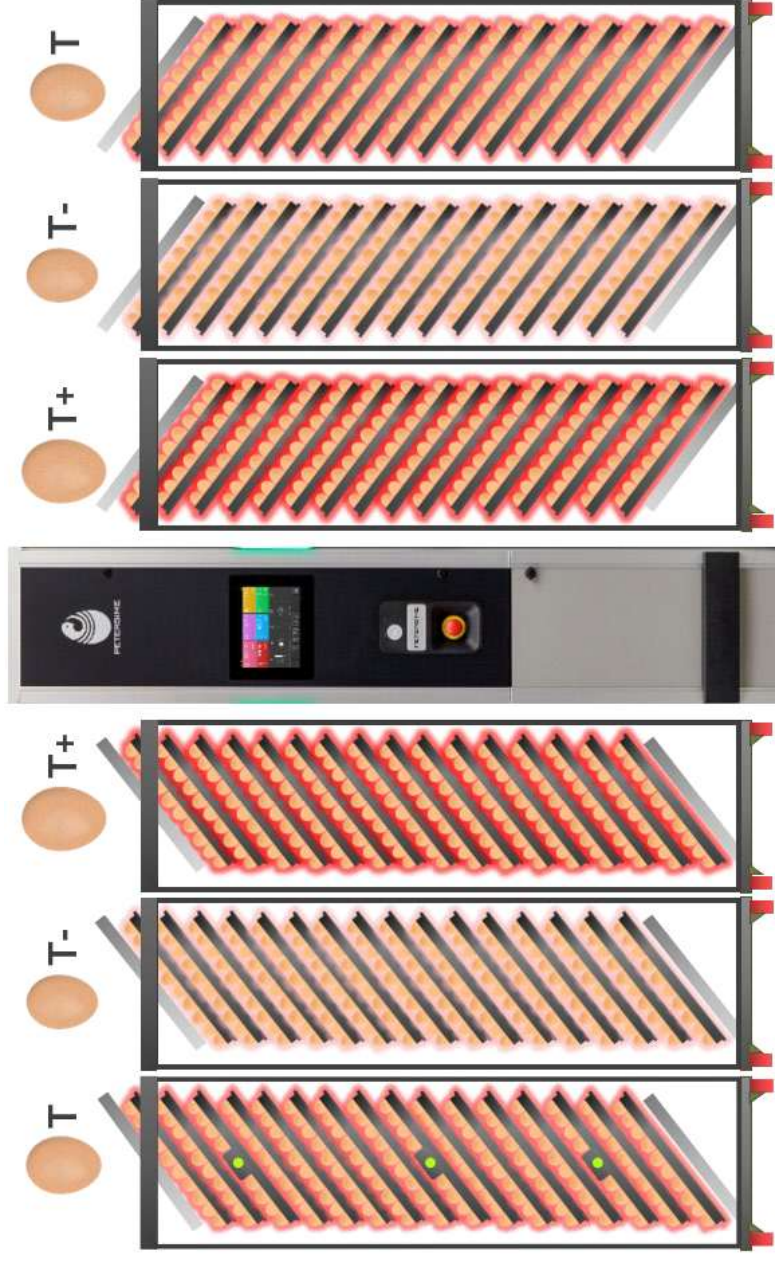
Guidelines when Using OvoScan™

- Clean the module and sensors regularly.



Guidelines when Using OvoScan™

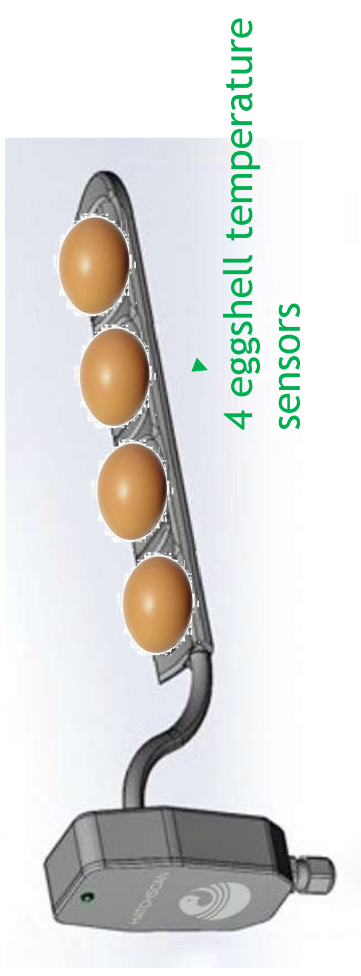
- Exercise balanced thermal loading of the setter when incubating eggs from different sources.



HatchScan



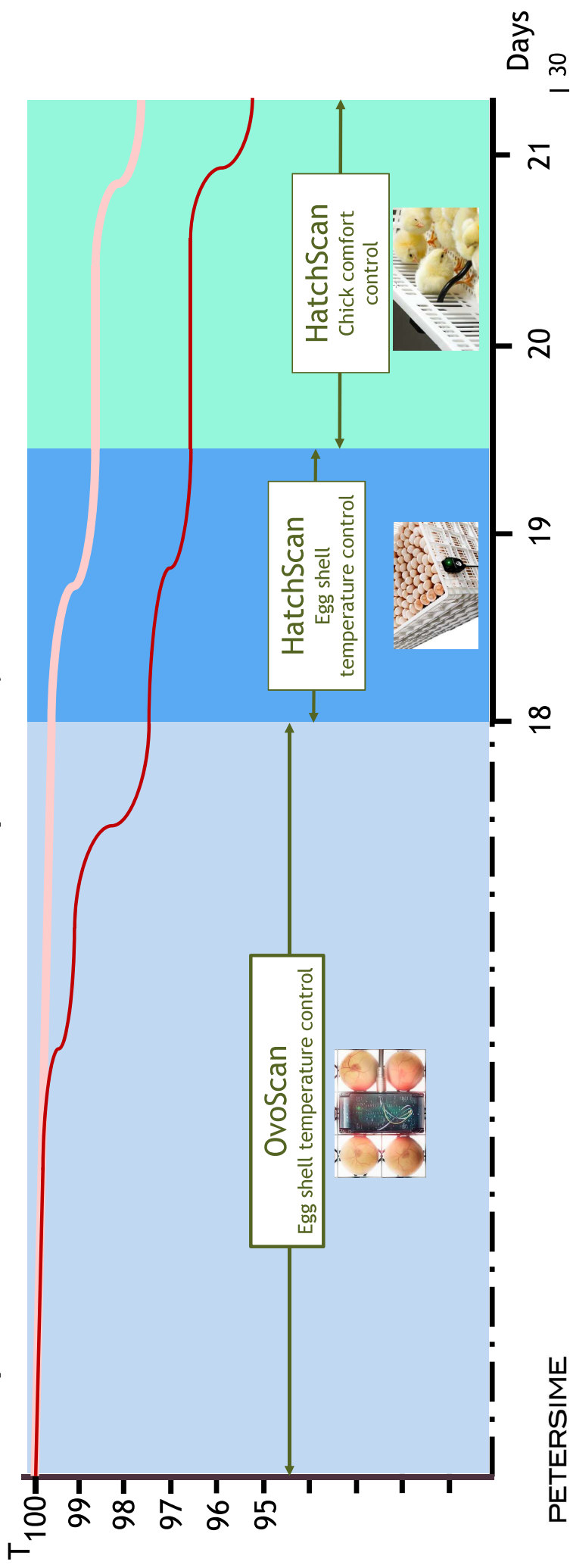
- ▶ ‘The ovoscan of the hatcher’
- ▶ Measures eggshell temperature on 4 eggs



HatchScan - Setter & hacher in senergy



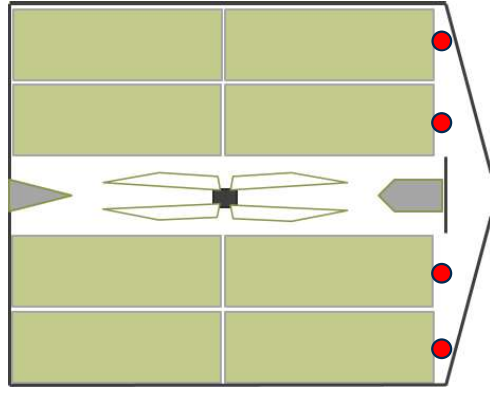
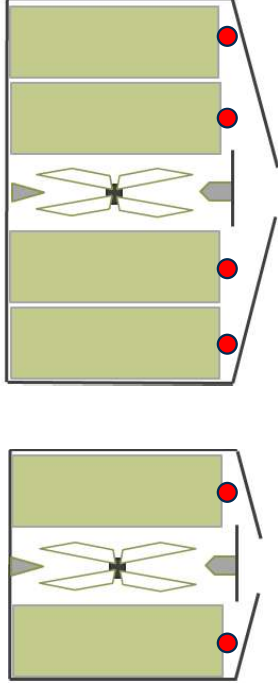
► Temperature control over complete cycle



HatchScan How? - Introduction HatchScan



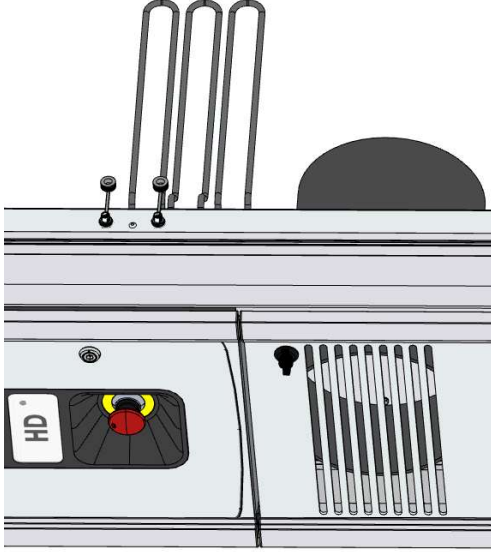
- ▶ 4 sensors per 4H (HD)
- ▶ 4 sensors per 8H (HD)
- ▶ 2 sensors per 2H
- ▶ 1 sensor installed per front trolley



HatchScan How? – Introduction HatchScan



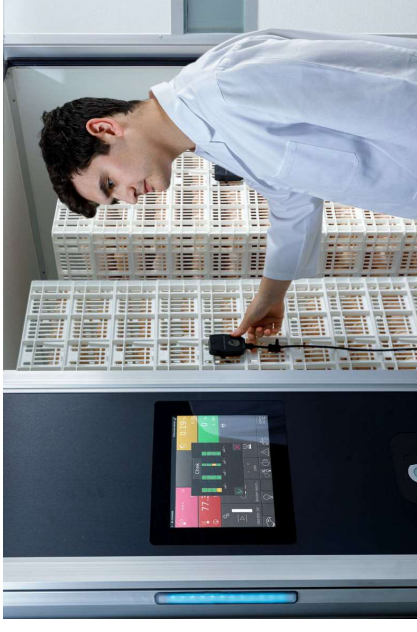
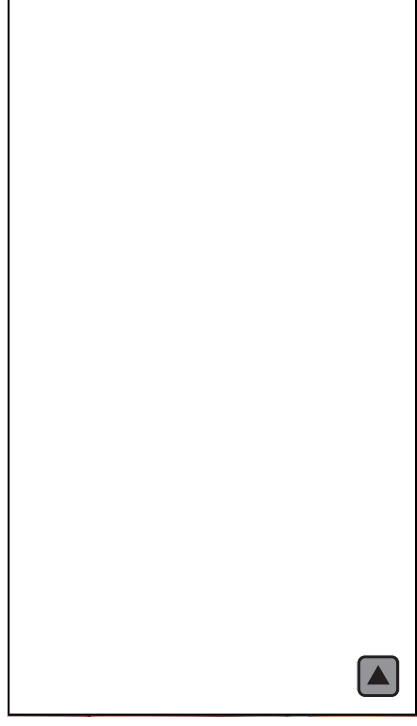
- ▶ 2 connection points left and right on the console
- ▶ Console sticker indicates correct connection
 - ▶ Left to right= 1 → 4
 - ▶ LED light blinks every 1-2-3 or 4 seconds to indicate ID



HatchScan How? - The HatchScan sensor



- ▶ Limited amount of work before hatcher start
- ▶ Installation after transfer, before the start of the hatcher
 - ▶ No destacking needed of baskets





Questions?



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grazie 谢谢 ขอบพระคุณ
merci Σας ευχαριστώ takk bedankt
tack धन्यवाद ありがとう terima kasih
gracias **thankyou** obrigado
teşekkür ederim | شكرا 고마워요
danke kiitos köszönjük

Thank you!



Questions ? gavin.williamson@petersime.com