



# REAL-TIME CERTAINTY FOR SAFER STERILIZATION

**Because every patient  
matters — and every  
second does too.**

Transforming molecular  
biology into real-time  
certainty through  
Biological Intelligence\*.



FDA  
De Novo  
granted





## HOW PHOTON® TRANSFORMS YOUR DAILY WORKFLOW

In a CSSD, timing and accuracy define your workflow. OR schedules shift, pressure builds, and traditional BI results often take hours — creating delays that affect your work.

**Photon® was designed to change that reality. It gives you immediate clarity, allowing you to work with confidence instead of waiting:**

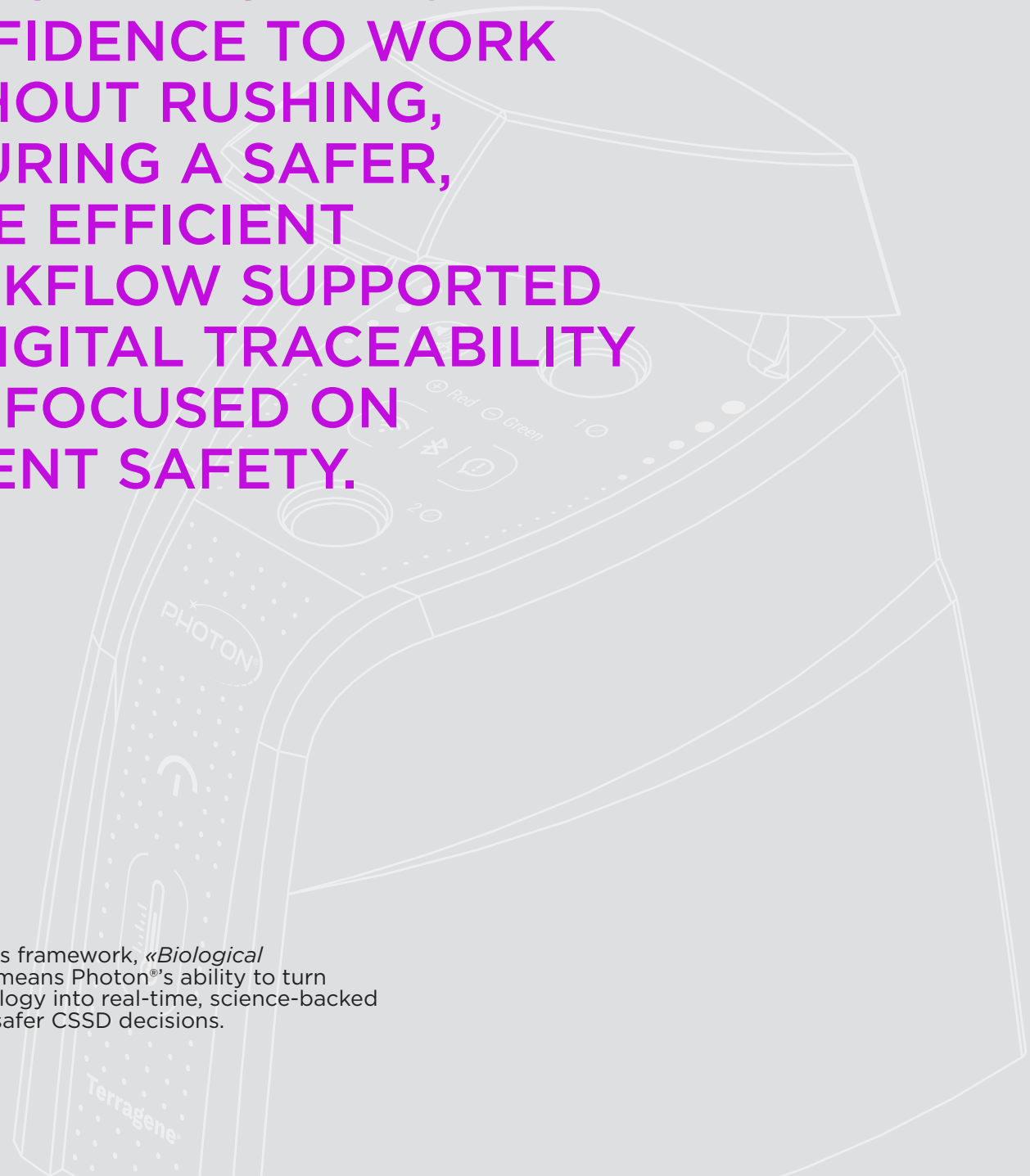
- FASTER INSTRUMENT TURNOVER
- REDUCTION IN DOWNTIME
- ZERO-ERROR EXPECTATIONS
- LESS STRESS FROM DELAYS

Photon® introduces a new generation of biological monitoring through its **innovative biological intelligence system**, enabling you to make **decisions in real time** and keep every step seamlessly coordinated.

**PHOTON® PROVIDES THE CONFIDENCE TO WORK WITHOUT RUSHING, ENSURING A SAFER, MORE EFFICIENT WORKFLOW SUPPORTED BY DIGITAL TRACEABILITY AND FOCUSED ON PATIENT SAFETY.**



\*In Terragene's framework, «*Biological Intelligence*» means Photon®'s ability to turn molecular biology into real-time, science-backed certainty for safer CSSD decisions.



# PHOTON®: BEYOND SPEED. BIOLOGICALLY INTELLIGENT.

Photon® is more than a rapid BI — it gives you a deeper understanding of the spore's vital structure. While others focus only on speed, Photon® goes further, delivering:

**REAL-TIME INTELLIGENCE,  
MOLECULAR-LEVEL DETECTION,  
RELIABLE PASS/FAIL CLARITY IN 7 SECONDS,  
DIGITAL TRACEABILITY THAT SUPPORTS  
YOUR WORKFLOW.**

Bionova®  
Photon®  
BPH



Bionova®  
Photon®  
BT225



Bionova® Q  
and printed  
ticket



# WHAT MAKES PHOTON® UNIQUE?

By converting complex biological data into actionable insights, Photon® turns sterilization from a waiting system into a process of knowing — faster, safer, smarter.

1

## A 7-SECOND BI RESULT

Immediate, science-backed  
PASS/FAIL clarity.

2

## MOLECULAR-LEVEL DETECTION

Identifies spore  
protein integrity  
through fluorescence.

3

FDA DE NOVO GRANTED  
+ ISO 11138-1:2017,  
ISO 11138-3:2017,  
ISO 11138-8:2021  
COMPLIANCE (BT225).

4

## CLOUD-BASED TRACEABILITY

Your records stay  
complete and  
audit-ready.

5

## CREATES A NEW STANDARD

Biological Intelligence  
System built for  
modern CSSDs.

6

## IUSS-READY PERFORMANCE

Safe and rapid  
turnaround for urgent  
reprocessing.

7

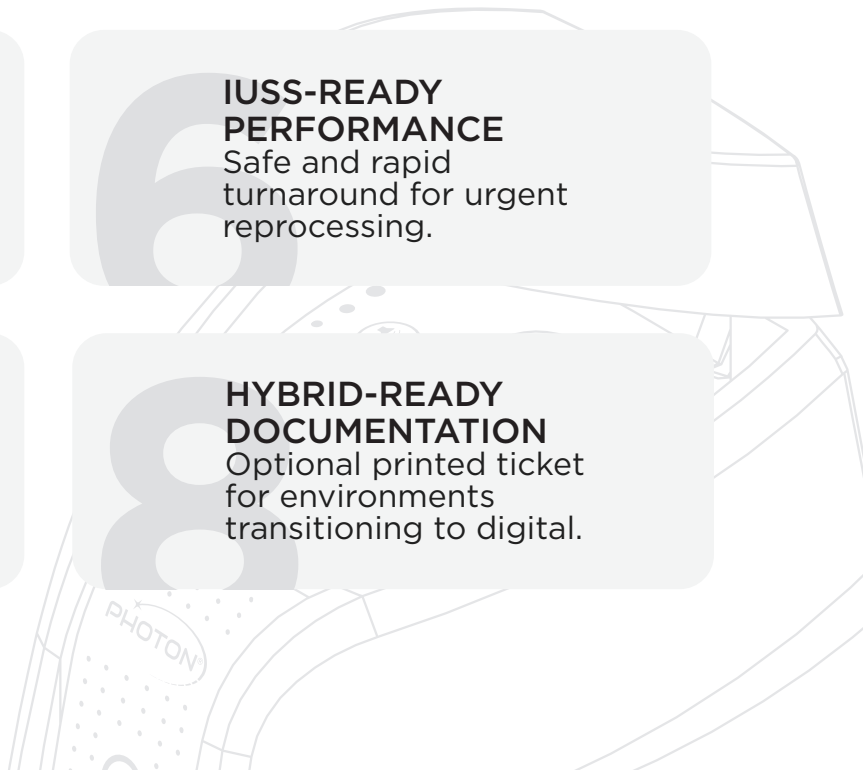
## VALIDATED IN REAL HOSPITAL AUTOCLAVES

Tested under the same  
conditions you work  
in daily.

8

## HYBRID-READY DOCUMENTATION

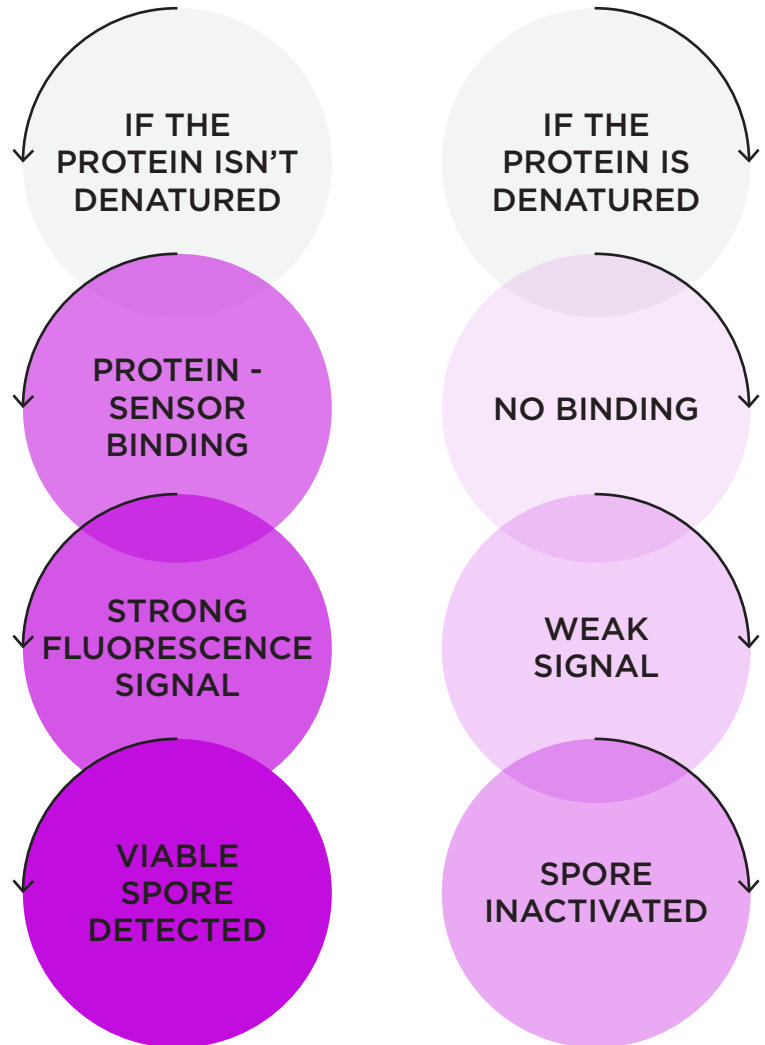
Optional printed ticket  
for environments  
transitioning to digital.



# HOW DOES IT WORK?

Bacterial spores contain proteins with specific 3D structures that remain functional unless denatured by steam.

Photon® uses a fluorescence probe to detect these functional protein structures.



**PHOTON® READS THIS IN JUST 7 SECONDS. THAT'S NOT FAST. THAT'S IMMEDIATE CERTAINTY.**



# PHOTON<sup>®</sup> TURNS WAITING TIME INTO DECISION TIME

## IMPACT FOR YOUR TEAM:

---

Faster release = **more procedures per day**

---

Real-time certainty = **more confident decisions**

---

Traceable data = **easier audits**

---

Less delay = **less stress across teams**

---

Digital + physical = **fits any workflow**

## BETTER RESULTS, LESS STRESS

- Reduce bottlenecks.
- Make evidence-based decisions.
- Improve scheduling and coordination.
- Protect patient safety with confidence.



## PRODUCT SNAPSHOT

### Photon® at a glance:

- 2 readout positions for incubation of Bionova® Photon® BT225 Bls.
- 7-second real-time result.
- Validated molecular detection.
- FDA De Novo granted + ISO 11138-1:2017, ISO 11138-3:2017, ISO 11138-8:2021 (for BT225).
- Cloud connectivity + physical ticket.
- First and only Biological Intelligence System.

**Empower your team with  
next-gen technology**

[BOOK A DEMO TODAY](#)

[EXPLORE TERRAGENE.COM/PHOTON](https://www.terragene.com/photon)

# FREQUENTLY ASKED QUESTIONS

🤔 Can I trust a 7-second BI result?

😊 **Yes, Photon<sup>®</sup> uses validated molecular detection and is FDA De Novo-granted and complies with mentioned ISO standards.**



🤔 Is it complicated to use?

😊 **No, it's simple, intuitive, and aligned with daily CSSD workflows.**



🤔 What if I need printed evidence?

😊 **Photon<sup>®</sup> supports optional external ticket printing.**



🤔 Does Photon<sup>®</sup> replace traditional BIs?

😊 **Photon<sup>®</sup> is a next-generation, hospital-validated biological indicator system.**





**This is not the future — it's  
already transforming  
CSSDs today.**