

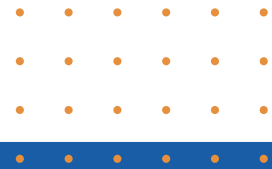


dissoGUARD

In the dissolution laboratory medium preparation is typically a time consuming and labor-intensive task. Maintaining prepared dissolution medium heated and degassed and precise volumetric media dispensing require diligence, patience and care. Automated methods can streamline these tasks while freeing the chemist for more productive analytical work. The automation carries the added benefit of eliminating human errors.

dissoGUARD®
Dissolution
Surveillance
System





Basic model

dissoGUARD®

The basic model is a simple recorder. With some unique features such as motion detector and LED illumination it is able to record good quality videos for six vessels. With optional easy to install light shield around the bath and adaptive LED illumination it is an ideal system for applications that are visible light sensitive. After the recording is taken the user is able to pinpoint and mark individual stages of the dissolution procedure. Because of the unique cameras position different operations are well visible (tablets drop or baskets immersion, sampling cannula or temperature probe immersion). The timing of different events can be determined down to seconds.

Pro model

dissoGUARD PRO®

The PRO version is an ultimate guardian for the dissolution procedure and apparatus. The dissoGUARD® PRO is not meant to be a qualification tool, but it will keep you on the safe side during periodical OQ/MQ measurements. With unique software algorithms excessive wobble for individual basket or paddle can now be successfully predicted. Measuring of individual paddle speed of rotation (RPM) is possible from the video itself. Proper centering of vessels and shafts can be checked. Software is able to warn a user about status of a run. Once the system is installed it will run almost automatically. After the recording is taken the user is able to pinpoint and mark individual stages of the dissolution procedure. The timing of different events (tablets drop or baskets immersion, sampling cannulas or temperature sensors immersion) can be determined down to seconds.



System overview



Adaptive Light
Intensity Control

Cameras and Optics
(DDS or DDS Pro)

Dedicated PC
with Software



Matching dissolution testers

Designed for Agilent 708-DS and 709-DS
Dissolution Apparatus.
For other models please contact us.

Specifications

Functions:	Automated Dissolution Surveillance System DG11-1302
Basic Setup:	6, 7 or 8 Camera Positions + External USB Camera
Integrated lighting:	White and Red LED light
Controls:	PC, Microsoft Win 7
PC Requirements:	Minimum Intel® Core™ i3, 2 GB RAM (4 recommended), 512 GB disk free space (1 TB recommended), 2x free PCI or PCI-Express Slots
Dimensions:	530x300x50mm (WxDxH)
Weight:	6kg
Required supply:	100 V - 240 V AC (+/-10 %), 50/60 Hz, 0.7A
Max Consumption:	30W

dissoGUARD®
Dissolution
Surveillance
System

The first dissolution surveillance system

This product is not meant to be a qualification tool but it can dramatically improve the control over your dissolution apparatus. It can guard dissolution procedure before and during every single run preventing from having questions like:

- Do you know, what is happening with your Dissolution Apparatus between periodical OQ/MOs?
- What do YOU do it periodical OQ/MO fails?
- Were the timings and position of manual sampling correct?
- Were baskets placed properly in the last run?

With a unique design and powerful software the dissoGUARD® is a **dissolution surveillance system that will revolutionize the way you see the dissolution procedure**. With cameras placed underneath the dissolution bath the user is not only able to see and store real time videos, export pictures or complete videos for future analyses, but we also took a step forward. For the first time, the user is able to measure or predict different physical parameters of their dissolution apparatus. **With different algorithms the software can evaluate the wobble and measure RPM, determine the proper center alignment of individual shafts, and much more**. Through the various stages of dissolution procedure it is possible ID evaluate the proper position of dosage forms, timing and position of sampling cannulas, behavior or particles in vessels, etc.



System functionality overview

	dissoGUARD	dissoGUARD PRO
Real time preview of 6/7 vessels	✓	✓
Acquire video for 6/7 vessels	✓	✓
Preview and export of video for 6/7 vessels	✓	✓
Dynamic LED (white/red) illumination for 6/7 vessels	✓	✓
Motion detector	✓	✓
Light shield around the bath	○	○
RPM measurements	✗	✓
Wobble detection	✗	✓
Detection of vessel/shaft centering	✗	✓
Vibration/level sensor	✗	○