

DissoGuard



The first dissolution surveillance system.



The First Dissolution Surveillance Camera System that Helps You Guard Your Results!

Dissolution Accessories is proud to introduce the dissoGUARD®, a dissolution surveillance system, which is now available for most dissolution testers regardless of their manufacturer.

Dissolution Accessories is a family-owned company founded in 1997 in The Netherlands. Our vision is to develop and deliver the highest quality in comprehensive parts, consumables, and accessories in compliance with USP, EP, JP, and associated pharmacopeia. As stated in the U.S. Pharmacopeia General Chapter <1092>, which details the dissolution procedure, “visual observations are often helpful for understanding the source of the variability and whether the dissolution test itself is contributing to the variability.”

Observations: The dissoGUARD® dissolution surveillance system (DSS) gives you the chance to visually observe all your measurements continuously. It combines a unique approach to the visual dissolution testing process and offers important insight at each stage of the pharmaceutical product development process.

Qualifications: The dissoGUARD® allows you to view the rpm of your paddle or basket before, during, and after the measurement. It shows you the wobble when present, it gives you an overview of the conditions of your measurement and behavior of the sample, and stores a video of every measurement for further analysis if there are any concerns about the result.

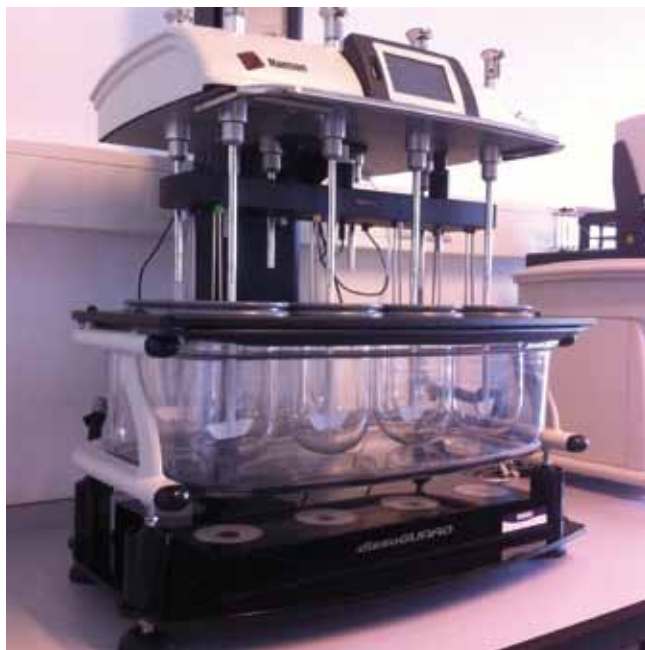
Recording: The dissoGUARD® software allows you to review all events that occur during the measurements. The videos or snapshots can be marked with key events such as dosage introduction, sample drop, sampling, or unusual behavior and are easily exported for sharing or documentation purposes.

The **Dissolution Accessories dissoGUARD®** is available in several configurations with cameras precisely placed underneath the dissolution bath of your choice in the exact center of the paddle/basket spinning axis. With state-of-the-art hardware, high-speed communication links, and powerful video-processing algorithms, **dissoGUARD** is revolutionizing the dissolution-testing environment.



The **dissoGUARD**[®] is capable of capturing vital information that was previously unattainable. The unique camera system placed beneath each individual vessel shows the user real time videos, detects paddle/basket motion, and store videos for further analysis or fault detection which can be reviewed on an for you convenient moment.

With some unique features such as motion detector and LED illumination, it is able to record good quality videos for all vessels. After recording, the user is able to pinpoint and mark individual stages of the dissolution procedure. Because of the unique camera position, different operations are well visible (tablet drop or basket immersion, sampling cannula or temperature probe immersion). The timing of different events can be determined down to seconds.



The **dissoGUARD** Pro software is the ultimate guardian for your dissolution procedure and apparatus; it can alert the user of any abnormal status of these parameters during a test, preventing lost time and aiding in eventual failure investigations.

dissoGUARD PRO is not meant to be a qualification tool, but it will keep you on the safe side during periodic OQ/MQ measurements. With unique software algorithms, it can successfully predict excessive wobble for individual basket or paddle. Measurement 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.

Without an analyst's presence, strategically placed cameras and corresponding software can greatly improve monitoring of dissolution test conditions and/or potential failure analysis. Specifically:

- Positive dosage form introduction
- Positioning of the dosage form (center, off-center)
- Hydrodynamics within the dissolution vessel
- Particle behavior
- Proper deaeration of dissolution media
- Vessel visibility of light-sensitive products
- Sampling timing and position
- Aberrant data investigation
- Documentation of uncharacteristic behavior

With an optional, easy-to- install amber shield around the bath and adaptive LED illumination (produces amber light), it is an ideal system to test light-sensitive products and prevent photo degradation of the active drug. The cameras deliver a solution for better visibility that eliminates the need for special laboratory lighting or other measures that would inhibit traditional observation of the amber dissolution vessels. An innovative homogenous illumination lighting system provides enough quality light for good quality videos for future post-processing

Adding this capability to your laboratory dissolution environment offers important insight at each stage of the pharmaceutical product development process. Whether during formulation optimization, method development, or stability or routine QA/QC testing, observation and recording of the dissolution test itself provides an ideal mechanism for additional information gathering.

A system such as this could be utilized to evaluate how unexpected results are obtained, or periodically, to assess dosage form performance. Either way, failure investigations are expedited with an increasing amount of evidence available and the dissolution data is enhanced with supplemental images or videos.

dissoGUARD® Ordering Information

DG11-1301A	dissoGuard, 7 cameras, External camera, Standard dissoGUARD Software
DG11-1301B	dissoGuard, 6 cameras, External camera, Standard dissoGUARD Software
DG11-1301C	dissoGuard , 8 cameras, External camera, Standard dissoGUARD Software
DG11-1302A	dissoGuard for Hanson Classic 6, 6 cameras, External camera, Standard dissoGUARD Software
DG11-1331	PRO upgrade (Software)
Agilent	
DG11-1311	Conversion kit to fit dissoGuard for Agilent 708DS/709DS
DG11-1341	Add-on for 709-DS, contains new cover and vessel protective shields
DG11-1352	Bath Shield for 708DS for light sensitive drugs
Hanson	
DG11-1312	Conversion kit to fit dissoGuard for Hanson Vision Classic 6
DG11-1313	Conversion kit to fit dissoGuard for Hanson Vision G1/G2 Elite 8 G1/G2
DG11-1315	Conversion kit to fit dissoGuard for Hanson SR8-Plus
Distek	
	Conversion kit to fit dissoGuard for Distek 2500 and Distek Symphony 7100 (under construction)