



EPG systems

WAGENINGEN, THE NETHERLANDS

Availability

Products/Stock Information

Products in Stock:

Basic EPG system	Giga-8dd devices (new 2024 series)	15
Silver glue	2ml vials	always
Gold wire	Ø 12.5 µm	12
Gold wire	Ø 18 µm	12
Other items	on request (e-mail)	
Software Stylet⁺ (EPG data acquisition and analysis)		<i>always free download</i>

The **Giga-8dd** introduced in 2020 - improved in 2022 - allows fast computer keyboard control during EPG recording by Stylet+ software to direct access common channel setting. This makes the device more user friendly (see Manual-Giga-8dd'20.pdf).

Properties of the 8dd model:

- 1) '**dd**' refers to digital-differential. The former single 'd' only referred to its digital (pushbutton) operation, the second 'd' refers to the 'differential' amplifier circuit design, instead of the former 'single ended' design (see website, page Measuring principles).
- 2) **emf-switch** integrated in the probes (pre-amplifier units) is a standard option now. Operating the remote switch to input resistor 10TΩ allows accurate recording of plant voltages, such as membrane potentials and their changes (depolarisations) during stylet punctures of plant cells. This opens using the EPG system in plant electrophysiology.
- 3) **multiple insect recording** (up to 8) from one plant, with individual insect (channel) control.
- 4) **field recording** of EPGs, in addition to normal lab recording. Field operation will require laptop powering independent from power grid (e.g. by a power box, or a 'cigarette lighter' laptop operating from a car battery).
- 5) **USB powering** by the computer USB port (no separate AC/DC power adaptor any longer).

Note: The measurement probes (8 separate head stage amplifiers) of the earlier Giga-4 and Giga-8 models (before 2020) are not compatible with the Giga-8dd model, unfortunately.