

MARVIN – New Analyser/Counter for Seeds of Field Crops

MARVIN is a seed analyser of a new generation. Electronically taken digital pictures of seeds will be processed and evaluated by a special software. In this manner MARVIN allows to **count seed samples very fast and with high accuracy**. **Some hundreds of samples** can be analysed **every day** and thus valuable **working hours can be saved**. If an electronic weighing equipment is connected to the PC, the sample mass will be transferred and the **Thousand-Grain-Weight (TGW)** will be calculated. At the same time the **size of the seeds (2D)** is determined and shown in **size fractions**. The analysis and the results can be traced and stored by control images and by a **protocol table**. The configuration of the program and the analysis are adapted according to the properties of the seeds and the requirements of the user. **Seeds of all crops** (mustard, rape, grasses, cereals, beans, maize, sun-flower) can be analysed reliably. It is possible to export the analysis results to a **MS Excel-file** or a **data base**. That is why errors in transferring of data can be prevented. In the **group mode** larger seed samples are counted and a higher accuracy is reached. In this way an **ISTA-conform determination of the TGW** is possible. **The analysing system is easy to handle and to operate and also the software** Because of little wear and tear no regular service is needed.



The MARVIN device is used by many **breeders** and **variety testing laboratories** to **control the quality of seeds** and also for **packaging purposes**.

Additionally by using a small **measuring cup** with a volume of about **25ml** the **Hecto-Litre-Weight (HLW)** can be determined approximately. In this way you receive in one step the values for

- Thousand-Grain-Weight (TGW)
- Hecto-Litre-Weight (HLW)
- Seed Size Fractions

The breeder can use this results as a criterion for selection.



MARVIN-Universal:

- for seed size 0.8mm Ø up,
- pixel resolution 0,25mm,
- measuring plane 27cm x 27cm, to tilt for fast emptying