

# Ampha Z40

*Amphasys*



## THE LAB PLATFORM FOR POLLEN ANALYSIS

### MORE INSIGHTS FOR PLANT BREEDING AND SEED PRODUCTION.

The **Ampha Z40** is the high-end laboratory instrument for precise, multi-parameter pollen analysis. It combines routine measurements of **pollen viability, and quantity**, with in-depth insights like determination of microspore developmental stages and pollen ploidy.



#### Universal

Suitable for all major crops, vegetables, ornamentals, and trees – over 250 species supported



#### Efficient

Viability, quantity, and developmental stage in one measurement



#### Flexible

Fully customizable protocols and gating strategies for advanced researches



#### Reliable

Proven technology with reproducible results – approved by all major seed companies

## WHY IT MATTERS?

Measuring pollen quality is essential for **better line selection, efficient crop placement and optimized production patterns**. The Ampha Z40 enables breeders and producers to transform pollen data into valuable reproduction knowledge— for the improvement of breeding efficiency and seed production.

# APPLICATIONS

The Ampha Z40 supports your complete pollen analysis workflow — from fundamental research to routine quality control in seed production.



## Doubled Haploid Production

Identify microspore developmental stages

Predict embryo yield for DH production

Correlate pollen traits with parental lines



## Plant Breeding

Select high-performing lines based on pollen quality and quantity

Identify lines with pollen sensitive to abiotic stress

Improve breeding by precision pollen phenotyping



## Production Research

Optimize female-to-male ratios and pollen usage

Improve flowering synchronization

Select most appropriate locations for crop placement



## Seed Production

Verify pollen viability before pollination

Control pollen quality before and after transport

Develop pollen storage and dilution protocols

## YOUR BENEFITS AT A GLANCE

**Universal:** One system for all pollen analysis tasks

**Flexible:** Tailor every protocol to your needs

**Efficient:** High-throughput pollen screening

**Reliable:** Quantitative, reproducible data for confident decisions

## Get in Touch!

Discover how the Ampha Z40 can enhance your pollen analysis.



[www.amphasys.com/ampha\\_z40](http://www.amphasys.com/ampha_z40)



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