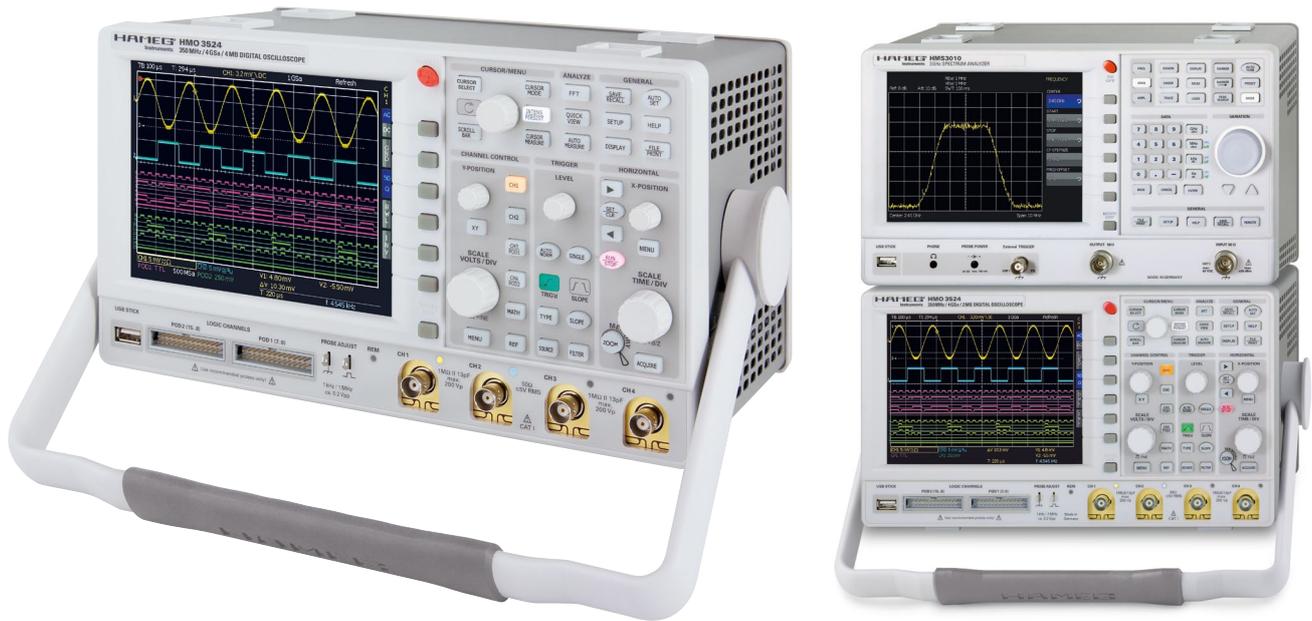


# HAMEG Oscilloscopes

## The New HMO Series - The compact class is a system

HAMEG Instruments regard „compactness“ as a topic of an importance reaching far beyond the scope of a single instrument.



The new Mixed Signal Digital Storage Oscilloscopes HMO3524/3522 with their 28.5 x 22cm<sup>2</sup> area belong to the more compact representatives of their class. The base area required is, however, but one criterion of the space allotment on a standard laboratory bench, while some manufacturers of compact oscilloscopes regard it as the sole criterion. HAMEG Instruments profit from their advantage of decades of knowhow about stackable systems, and this knowhow was fully applied during the development of the HMO series. This series requires a base area which is more than 60% smaller, this is convincingly demonstrated even by a single instrument. As soon as several HAMEG instruments are used, the concept of multiple stackability comes fully into effect. This allows, e.g., to place a signal source [e.g. HMF arbitrary generator] on top of a power supply [e.g. HMP series] which is a solid base for a HMO. A spectrum analyzer HMS may become the top of the stack.

Adherence to the standard width allowing for stackability resulted in a 6.5" VGA display which is unique in the 3,000€ class. The standard DVI output allows the use of any external display diagonal, possibly in combination with a KVM switch. The VirtualScreen function implemented by HAMEG constitutes a further innovative comfortable feature which delivers a well defined clear display of more than 20 sig-

nals on the screen. Even small signal details are still well visible. This allowed to conform to the 50 to 50 relationship between display and operating panel areas. Thus it was possible to provide an adequate relationship between pushbuttons and knobs for fast operation and for quick access to functions by one push of a button.

The instruments of the HMO series feature a complete metal chassis and a metal housing and are thus mechanically robust and well protected against EMI. The HAMEG knowhow in mechanical design made it possible to combine the advantages of a metal housing with the low weight of only 3.6kgs. Cooling was a part of the design concept, it profits from the large metal surface such that a very quiet and low speed fan could be used. For these instruments, HAMEG offers the optional compact HZ355 Slimline probes with very small tips and accessories which allow to contact SMD components with a pin spacing down to 50 mils (1.27 mm). The probe holder enclosed allows to free the hands to operate the lab instruments.

### Summary:

The oscilloscopes of the HMO series require very little space on a laboratory bench for themselves. Combining them with other HAMEG instruments yields the further

space advantage of stackability. The VirtualScreen function presents a well defined and comfortable display of all signals on the compact screen and thus allows for an adequate operating panel area. The stable metal housing protects from EMI and enhances cooling which is the cause of the very low operating noise level.