

Tektronix the 7000 Series

The most famous and charming oscilloscopes
in electronics' history

Volume I
Overview and Mainframes

Giovanni Becattini



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Full Size Schematics and Pictures

This book includes a number of schematics and diagrams that go well beyond a simple reproduction of those found in the original Tektronix manuals. Some have been entirely redrawn, while others are the result of a careful and often painstaking restoration process, involving extensive editing, correction, and reconstruction work.

Some of these materials are also made available in full-size PDF format and can be downloaded from www.quacktech.it.

If you don't find a specific diagram you wish, feel free to contact us—we will be glad to help.



The Most Iconic

This book is dedicated to the Tektronix 7000-Series oscilloscopes—their technologies, their restoration, and the people who conceived and built them with ingenuity and exceptional technical skill. These instruments represent the most iconic expression of Tektronix’s golden age and are widely regarded as the best-known oscilloscope family ever produced. Throughout the 1970s, few serious companies or scientific institutions operated without at least one 7000-Series instrument.

Introduced in October 1969, the 7000 Series marked a turning point in the history of electronic instrumentation. While the plug-in concept itself was not new—it had appeared in earlier families such as the 500 Series—it reached its most mature and refined form with the 7000 Series. The elegance of its architecture and the intelligence of its implementation were central to the platform’s remarkable success and longevity.

This book presents an in-depth examination of the Tektronix 7000-Series oscilloscopes. Conceived as a natural continuation of Tektronix Epic Oscilloscopes, where the 7000 Series was only briefly addressed, the present work expands that discussion into a structured study, organized into two volumes:

- **Volume 1** provides historical context, outlines key technical solutions, and analyzes several mainframe models.
- **Volume 2** is devoted to plug-ins, examining more than twenty different models in detail.

Together, these volumes document not only a family of instruments, but a pivotal moment in the evolution of electronic measurement.

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*To my wife
and my family*