

For our customers in Germany and Austria SERVA now offers the complete product range of Hoefer Scientific Instruments.



## About Hoefer

Hoefer is world-renowned as the premier supplier of gel electrophoresis equipment and related products. Founded in San Francisco in 1967 by Peter and Jacqueline Hoefer, the company rapidly became recognized as an innovator and its distinctive products can be found in laboratories all around the world. Hoefer products are the standard that others follow.

The Company's mission is to offer scientists products that are intelligently designed, easy-to-use, of high quality, and yield consistent and reproducible protein and nucleic acid electrophoretic separations. Hoefer designs, manufactures, and distributes an expanding line of instruments, accessories, and consumables to the highest standards of excellence.

Products include vertical units such as Chroma, SE600, SE250, and MiniVE, horizontal units HE33 and HE99, and blotting instruments TE22, TE42, TE62, TE 70 and TE77. Hoefer also offers power supplies, fluorometers, filtration units, visualization units, and other fine products.

## Standard Vertical Units

Hoefer offers several standard size vertical units that can run up to four gels simultaneously and accept as many as 112 samples for high throughput analysis.

The instruments of the **Hoefer SE 600** series are tank systems. Gels are completely immersed in buffer. The systems include a heat exchanger that is suspended inside the lower buffer chamber. The immersion of the gel sandwich in combination with use of the heat exchanger helps maintain the temperature of the gel, producing straight lanes and sharp bands.

The **Hoefer SE 400** Sturdier series comprises instruments that can run one or two gels, has a built in caster, fewer parts and is lower in cost. It is ideal for labs requiring many units but possessing limited bench space.

Hoefer also has a wide range of gel casters and accessories to support your vertical electrophoresis needs.





## Mini Vertical Units



Separating proteins on small gels is similar to large gels, except volumes and separation times are considerably reduced. Like the large format, gels are cast either two at a time using a dual gel caster, or in groups of four to ten in the multiple gel casters.

The combination of fast separations and small size makes mini gels a very popular alternative to standard size gels. Although the separation area is much less, generally resolution remains adequate for most routine procedures.

Hoefler has pioneered mini gel technology for many years and has a wide range of products to suit your needs. The **Mini Vertical Models** and **MiniVE** models give you a bigger mini-gel cast in glass plates of 10 x 10.5 cm size. The **SE 250** can be used to cast and run gels that are cast in glass plates of 10 x 8 cm.

Hoefler supports the mini vertical line with a wide range of accessories like gel casters, blotters, combs, spacers and glass plates.



## Nucleic Acid Electrophoresis

DNA fragments in the range of 100 bp to 20 kb are typically separated in agarose gels using submarine style electrophoresis units. Hoefler offers two sizes of submarine units for quick results or high throughput.

Mini submarine unit **HE 33** is ideal for rapid separations. The **HE 99X Max** offers a variety of gel lengths and sample well combinations to fit the user's needs. Please select the submarine agarose units for more details.

Smaller fragments, < 100 bp, are typically separated on polyacrylamide gels in a vertical format.

We recommend the Hoefler **MiniVE** or the **Mighty Small II** units for small fragments up to 1 kb.



# **Blotting**

Hofer offers a wide variety of products for immunoblotting manifolds for screening. The tank-style blotting technique is unsurpassed for Western Blotting applications involving electrophoretic transfer of macromolecules from gel to membrane.



Hofer tank transfer units deliver results efficiently and completely.

The **TE 42** and **TE 62** models can accept gels up to 15 x 21 cm.

The **TE 22** accepts gels up to 9 x 10 cm



The Hofer Semi-Dry Transfer units-the **TE 70X** and **TE 70XP** (accepting gels up to 14 x 16 cm) and the **TE 77X** and **TE 77XP** (accepting gels up to 21 x 26 cm) deliver excellent transfers of proteins from polyacrylamide gels in less than one hour. They use low current, low voltage and a minimal amount of buffer. The semi-dry units have the capacity to transfer multiple gels at a time, either placed side-by-side, or stacked with dialysis membranes separating the gel sandwiches.

The **TE 70XP** and **TE 77XP** models include built-in power supplies, and circuitry that automatically self-monitors your transfer status, stopping the transfer before the stack overheats.



The New **ImmunoBlot** and **ImmunoBlot XL** systems offer the most convenient and cost effective way for Western Blotting, antigen-antibody interactions and DNA hybridizations

The Hofer **Slot Blot Manifold** offers a simple and convenient method for screening DNA, RNA and proteins.

The **Deca Probe Incubation Manifold** offers a reliable and safe method to screen antibody preparations

In the fast moving world of proteomics and genomics, an increasing need for more sophisticated imaging systems can be observed.

**ULTima** combines innovative technology with a very good price/performance ratio. It covers the most demanding applications even those which until now do require the use of expensive laser scanning imaging systems.

ULTima is the fastest, most straightforward and adaptable imaging system in it's price range.

Incorporating the latest advances in electronics and optics the system can be used for almost all imaging applications.



The optional **Optix illumination system** provides high energy excitation of your sample with visible- and near infra red light. It permits the detection of almost all fluorophores in this excitation range.

- Full line of imaging systems (ULTima 10si, ULTima 16si, ULTima 16siPLUS and ULTima PRO)
- True multifluorophore capabilities through the use of patented optics
- Optimal resolution
- Fluorescence optimized
- Quantifiable images
- Adaptable to all user requests
- Affordable alternative to laser based systems 322

<b>ULTima Technical Specifications</b>				
	ULTima 10si	ULTima 16si	ULTima 16si Plus	ULTima PRO
Camera Bit Depth	10 bit	16 bit	16 bit	16 bit
Resolution	1312x1032	1392x104	1392x104	1392x104
Image Sensor Cooling	No	No	No	Yes, 6 arrays
Resolution (max.)	10 sec.	10 sec.	10 sec.	50 min.
Electronic Optical Zoom	6 x	6 x	6 x	6 x
Electronic Iris Control	No	No	Yes	Yes
Electronic Focus Control	No	No	Yes	Yes
EtBr., Coomassie, SYBR Green etc.	Yes	Yes	Yes	Yes
Fluorescence	No	No	Yes	Yes
Chemiluminescence	No	No	No	Yes
Optix Module (ULT 164) can be added	Yes	Yes	Yes	Yes
Ordering Number (Unit*/System**).	ULT101/ULT10	ULT161/ULT16	ULT161/ULT16F	ULT161C/ULT16C

\* includes UV filter, white light top illumination and communication software

\*\* includes also UV-26 transilluminator and 1D-analysis software