

# TECHNICAL SPECIFICATIONS

## Kilobaser one & Kilobaser one-XT

### Product information and comparison

	<b>Kilobaser one</b>	<b>Kilobaser one-XT</b>
<b>Description</b>	DNA Synthesizer	DNA & RNA Synthesizer
<b>Oligo Length</b>	Up to 50nt (recommended)	Up to 50nt (recommended)
<b>DNA</b>	Yes	Yes
<b>DNA Probe</b>	No	Yes
<b>Modified DNA</b>	No	Yes
<b>Modified RNA</b>	No	Yes
<b>Total Yield</b>	> 300 pmol	> 300 pmol
<b>Stepwise Yield</b>	99.5%	99.5%
<b>Column Type</b>	Microcolumn (on chip)	Microcolumn (on chip)
<b>Column Capacity</b>	One	One
<b>Required</b>	Nitrogen or argon gas supply	Nitrogen or argon gas supply
<b>Cycle Time</b>	2.5 min/nt	2.5 min/nt
<b>Hands-on Time</b>	1.5 minutes to start; 1 minute for finish	1.5 minutes to start; 1 minute for finish
<b>Oligo Purification</b>	Not required	Manual (Kilobaser OliPure Kit)
<b>Oligo product condition</b>	Dried	Dried

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	<b>Kilobaser one</b>	<b>Kilobaser one-XT</b>
<b>Synthesis</b>	Fully automated	Fully automated
<b>Post-Synthesis Deprotection</b>	Fully automated	Fully automated
<b>Synthesis Type</b>	Solid-phase phosphoramidite	Solid-phase phosphoramidite
<b>Synthesis Capacity</b>	One oligo/run	One oligo/run
<b>Touch Screen</b>	Included	Included
<b>Supplies</b>	Kilobaser cartridge + chips only	Kilobaser cartridge + chips only
<b>Offline Operable</b>	Yes	Yes
<b>Online Operable</b>	Yes, not required	Yes, not required
<b>System Update</b>	Free; offline or online; guaranteed for 1 year	Free; offline or online; guaranteed for 2 years
<b>Instrument Size</b>	27x33x33cm	27x33x33cm
<b>Smart Help</b>	Yes	Yes
<b>Installation online</b>	Yes	Yes
<b>Installation on-site</b>	Additionally bookable	Additionally bookable

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<b>Basic Support*</b>	Yes	Yes
<b>Extended Support*</b>	No	Yes
<b>Scientific Support*</b>	No	Yes

**\*Basic Support:**

After the Kilobaser has arrived at your site, we will help you with the connection and installation in the course of an online set-up call. We are happy to support you until the start of the initial DNA synthesis. This is necessary to prepare the Kilobaser for your custom oligo syntheses. If you have any questions, please do not hesitate to contact us.

**\*Extended Support:**

We will give you a detailed introduction to the Kilobaser cartridge and chip system and explain exactly how to set them up on your Kilobaser. We will also show you in detail how to perform the manual cleaning step when changing cartridge types. Since many modifications require an additional purification step, we will train you and your colleagues step by step how to use our OliPure oligonucleotide purification kit to ensure the best oligo quality. If you have any questions, please do not hesitate to contact us.

**\*Scientific Support:**

We will be happy to help you evaluate your first synthesis and experiment with Kilobaser synthesized oligonucleotides. If necessary, we will discuss further steps for troubleshooting together. If desired, we can also perform some tests in our laboratory to rule out possible application errors.