



Competitive Analysis: Kaspersky Lab & CA

Kaspersky Lab Key Features and Benefits:

- Fast response to new threats, provided by the 24/7 KL virus lab in Moscow and a team of experienced anti-virus researchers located across the globe.
- Automated hourly updates, plus additional emergency updates as required.
- Small, intelligent, incremental updates of around 45KB. Updates include new signatures plus, where required, updated engine components.
- Leading 'spyware' protection is included, delivering protection from backdoor Trojans, keyloggers, adware, dialers and more.¹
- Leading detection rates, as shown in KL's consistent track record in independent certifications and tests.²
- Leading proactive detection technologies [heuristic, generic and behavioral] enable KL products to find new, unknown threats, even without the need for updated signatures.³
- Built-in anti-rootkit technology.
- Roll-back technology to undo the actions taken by malicious programs.
- Built-in support for 1,761 different compression, archiving and packing utilities⁴, detecting the hidden threat that could lie within. This includes recursive scanning [e.g. a ZIP file within a ZIP, for example] and *iCure*TM technology to clean commonly used archive utilities: ZIP, ARJ, LHA, RAR, CAB. A smart algorithm also protects against 'archive bombs'.
- *iChecker*TM and *iSwift*TM technologies mean that KL products need to scan ONLY those files that have changed, NOT every file. Since most scanning is redundant, this delivers a huge performance benefit.
- Efficient use of system resources: the engine monitors system resources and suspends scanning if extra resources are needed by the user.
- Real-time e-mail scanning independent of the client application installed e.g. Outlook, Outlook Express, Eudora, etc.
- Real-time scanning of web traffic and browser-based scripts.
- Global 24/7 support, with experienced localized support.
- Broad platform and application support: includes Windows, Linux & Unix, NetWare, MS Exchange, Lotus Domino, Windows SMTP gateways, MS ISA Server, Windows Mobile, Symbian OS & Palm OS.

¹ KL placed FIRST in the *Computer Bild* spyware test, July 2005.
KL holds [West Coast Labs](#), Checkmark 'Anti-Spyware' certification.
KL won [SC Magazine](#) 'Best Anti-spyware' award in 2006.

² This includes [West Coast Labs](#), & [ICSA Labs](#), certifications, together with the many independent test results referred to later in this document.

³ The KAV 6.0 Proactive Detection Module scored 99% in [AV-comparatives](#) test, June 2006, WITHOUT the need for signatures.

⁴ May 2006.



Recent Kaspersky Lab Awards:

- June 06 **SC Magazine Best Buy**: Kaspersky Business Optimal
<http://www.scmagazine.com/uk/grouptest/details/ab23b23f-f6b3-51ca-9609-26a657fc36b7/av+management+2006/>
- May 06 **Computer Shopper Best Buy**: Kaspersky Anti-Virus
<http://www.pcpro.co.uk/shopper/labs/86685/kaspersky-antivirus-2006.html?searchString=kaspersky+review+kaspersky>
- May 06 **West Coast Checkmark Certification**: Kaspersky Anti-Virus
http://www.westcoastlabs.org/cm-av-products.asp?Comp_ID=15&Cat_ID=1
- April 06 **SC Magazine Reader Trust Award**: Best Anti-Worm
<http://www.scawards.com/winners/2006.asp#Europe>
- April 06 **SC Magazine Reader Trust Award**: Best Anti-Spyware
<http://www.scawards.com/winners/2006.asp#Europe>
- April 06 **SC Magazine Award Finalist**: Best Anti-Virus
<http://www.scawards.com/winners/2006.asp#Europe>
- April 06 **SC Magazine Award Finalist**: Best Anti-Trojan
<http://www.scawards.com/winners/2006.asp#Europe>
- April 04 **SC Magazine Global Awards Winner**: Best Anti-Virus
<http://www.scawards.com/winners/2004.asp>
- 2005 **Techworld.com Network Awards**: Anti-Virus Product of the Year
<http://www.kaspersky.com/news?id=166240816>
<http://techworld.com/networkawards/winners2005.cfm#cat6>



Independent Test Results:

Detection^{1 2}

	KL
DOS viruses	99.96
Windows viruses	99.86
Macro viruses	100
Script viruses	97.69
Worms	99.32
Backdoors	99.87
Trojans	99.49
Other malware	99.79
Other OS malware	99.73
Dialers	99.19
TOTAL	99.86

Proactive detection^{3 2}

	KL
Proactive detection ALL samples	53

Detection^{4 2}

	KL
DOS viruses	99.97
Windows viruses	99.83
Macro viruses	100
Script viruses	98.45
Worms	99.82
Backdoors	99.49
Trojans	99.26
Other malware	100
Other OS malware	80.65
Dialers	100
TOTAL	99.77

Proactive detection^{5 2}

	KL
Proactive detection ITW samples	25
Proactive detection ZOO samples	43

¹ Based on figures published by [AV-comparatives](#) [February 2004].

² CA was not tested.

³ Based on figures published by [AV-comparatives](#) [May 2004].

⁴ Based on figures published by [AV-comparatives](#) [August 2004].

⁵ Based on figures published by [AV-comparatives](#) [November 2004].



Detection^{1 2}

	KL
DOS viruses	99.95
Windows viruses	99.67
Macro viruses	100
Script viruses	97.90
Worms	99.63
Backdoors	99.64
Trojans	98.62
Other malware	99.02
Other OS malware	80.99
Dialers ⁴	Excellent
TOTAL	99.65
Total without DOS & Other OS	99.40

Proactive detection^{3 2}

	KL
Proactive detection ITW samples	35
Proactive detection ZOO samples	48

Detection^{5 2}

	KL
DOS viruses	99.97
Windows viruses	99.91
Macro viruses	100
Script viruses	99.56
Worms	99.92
Backdoors	99.91
Trojans	99.78
Other malware	99.68
Other OS malware	88.18
Dialers ⁴	Excellent
TOTAL	99.88
Total without DOS & Other OS	99.9

Proactive detection^{6 2}

	KL
Proactive detection ITW samples	0
Proactive detection ZOO samples	32

¹ Based on figures published by [AV-comparatives](#) [February 2005].

² CA was not tested.

³ Based on figures published by [AV-comparatives](#) [May 2005].

⁴ KEY: Not present [0%-5%], Low [6%-40%], Mediocre [41%-70%], High [71%-95%], Excellent [96%-100%].

⁵ Based on figures published by [AV-comparatives](#) [August 2005].

⁶ Based on figures published by [AV-comparatives](#) [November 2005].



Detection^{1 2}

	KL
DOS viruses	99.97
Windows viruses	99.84
Macro viruses	100
Script malware	99.15
Worms	99.56
Backdoors	99.76
Trojans	99.26
Other malware	97.90
Other OS malware	99.04
Dialers ⁴	Excellent
Polymorphic malware	99.40
TOTAL	99.57
Total including DOS	99.77

Proactive detection^{3 2}

	KL
Proactive detection of NEW samples	24

Detection⁵

Sequence of product placement Windows 2000 anti-virus products		
3	KL	15 points
9	CA	8 points

Sequence of product placement Windows 2000 anti-malware products		
3	KL	19 points
9	CA	9 points

Sequence of product placement Windows XP anti-virus products		
3	KL	15 points
9	CA	8 points

Sequence of product placement Windows XP anti-malware products		
3	KL	19 points
9	CA	9 points

Sequence of product placement LINUX anti-virus products		
3	KL	15 points
7	CA	7 points

Sequence of product placement LINUX anti-malware products		
3	KL	19 points
	CA	

Virus Bulletin 'VB100%' awards⁶

	PASS	FAIL	NO ENTRY
KL	33	13	0
CA eTrust Antivirus	24	11	11
CA Vet Anti-Virus	25	13	8

¹ Based on figures published by [AV-comparatives](#) [February 2006].

² CA was not tested.

³ Based on figures published by [AV-comparatives](#) [May 2006].

⁴ KEY: Not present [0%-5%], Low [6%-40%], Mediocre [41%-70%], High [71%-95%], Excellent [96%-100%].

⁵ Based on figures published by [Virus Test Center, University of Hamburg](#) [July 2004].

⁶ Full results can be found on the [Virus Bulletin](#) web site [the above table is valid up to June 2006].



On its [web site](#), CA makes the claim: 'CA has received the most Virus Bulletin 100% awards for detecting 100% of "in-the-wild" viruses of any antivirus vendor.' This is simply FALSE, as the table above shows.

Outbreak response¹

	TIME
KL	2:34:28
InoculateIT-CA	10:35:00
InoculateIT-VET	15:08:34

Outbreak response²

	TIME
KL	Under 4 hours
CA eTrust INO	Under 12 hours
CA eTrust Vet	Under 16 hours

Outbreak response³

	TIME	THREAT IDENTIFICATION
Signature detection using regular updates		
KL	14 December 2004, 10:02	Email-Worm.Win32.Zafi.d
CA eTrust INO	14 December 2004, 16:50	Win32/Zafi.D.Worm
CA eTrust Vet	14 December 2004, 19:08	Win32.Zafi.D

Outbreak response⁴

	TIME	THREAT IDENTIFICATION
Proactive detection without the need for signature updates		
KL	Proactive detection ⁵	Email-worm.Win32.Mydoom.m
Signature detection using regular updates		
CA eTrust Vet	17 February 2005, 05:31	Win32/Mydoom.AU!Worm
KL	17 February 2005, 12:18	Email-Worm.Win32.Mydoom.am
Signature detection using BETA updates		
CA eTrust INO [beta]	17 February 2005, 00:15	Win32/Mydoom.AU!Worm
CA eTrust Vet [beta]	17 February 2005, 01:19	Win32.Mydoom.AU

¹ From a survey measuring average response times to a series of outbreaks during Q1 2004. Full results can be found in *Unter Dauerbeschuss - Reaktionszeiten der Antivirenhersteller* by Patrick Brauch [based on analysis by [AV-Test GmbH](#)], c't 08/2004, page 168pp [5 pages].

² This data, measuring average response times to 45 outbreaks in 2004, is taken from the presentation *Antivirus outbreak response testing and impact*, presented at the [Virus Bulletin](#) 2004 Conference in Chicago by Andreas Marx [September 2004]. A paper containing these results can be found on the [AV-Test GmbH](#) web site.

³ From a survey measuring response times to the outbreak of Zafi.d on 14 December 2004. Full results can be found in [Security Watch: Internet Bulletin Boards Join The Santy Generation](#), by Larry J Seltzer [based on analysis by [AV-Test GmbH](#)], PC Magazine 12/2004.

⁴ From a survey measuring response times to the outbreak of Mydoom.bb on 16 February 2005. Full results can be found in [Security Watch: MyDoom reappears - Anti-Virus Response Times to MyDoom.BB](#), by Larry J Seltzer [based on analysis by [AV-Test GmbH](#)], PC Magazine 02/2005.

⁵ Kaspersky Lab provided protection from 26 July 2004.



Outbreak response¹

	TIME	THREAT IDENTIFICATION
Signature detection using regular updates		
KL	2 May 2005, 16:39	Email.Worm.Sober.p
CA eTrust INO	2 May 2005, 19:54	Win32/Sober.53554!Worm
CA eTrust Vet	2 May 2005, 23:15	Win32.Sober.N

Signature detection using BETA updates		
CA eTrust INO [beta]	2 May 2005, 18:17	Win32/Sober.53554!Worm
CA eTrust Vet [beta]	2 May 2005, 19:47	Win32.Sober.N

Outbreak response²

	TIME	THREAT IDENTIFICATION
Signature detection using regular updates		
KL	16 August 2005, 21:57	Net.Worm.Win32.Small.d
CA eTrust INO	16 August 2005, 23:51	Win32/MS05-039!exploit!Worm
KL	17 August 2005, 01:06	Net.Worm.Win32.Bozori.a
CA eTrust VET	17 August 2005, 01:53	Win32.MS05-039!exploit
CA eTrust INO	17 August 2005, 20:27	Win32/Zotob.E!Worm
CA eTrust VET	18 August 2005, 05:35	Win32.Tpbot.A

Signature detection using BETA updates		
CA eTrust INO [beta]	16 August 2005, 22:13	Win32/MS05-039!exploit!Worm
CA eTrust VET [beta]	16 August 2005, 23:16	Win32.MS05-039!exploit!
CA eTrust VET [beta]	17 August 2005, 02:20	W32.Peabot.A
CA eTrust VET [beta]	17 August 2005, 06:22	Win32.Tpbot.A
CA eTrust INO [beta]	17 August 2005, 19:00	Win32/Zotob.E!Worm

¹ From a survey measuring response times to the outbreak of Sober.p on 2 May 2005. Full results can be found in [Security Watch: Mac Users Alert! Major Security Update - Anti-Virus Vendor Response Times to Recent Sober Outbreak \[Sober.p\]](#), by Larry J Seltzer [based on analysis by AV-Test GmbH], PC Magazine 05/2005.

² From a survey measuring response times to the MS05-039 worms in August 2005. Full results can be found on the [AV-Test GmbH](#) web site.



Detection¹

DETECTION	
Detection on 1 January 2006	
eTrust-INO	73/73
eTrust-VET	73/73
KL	73/73
Detection on 4 January 2006	
CA eTrust-VET	206/206
CA eTrust-VET [beta]	206/206
KL	206/206
CA eTrust-INO	25/206
CA eTrust-INO [beta]	25/206

Outbreak response²

	TIME	THREAT IDENTIFICATION
Signature detection using regular updates		
KL	16 January 2006, 11:44	Email-Worm.Win32.VB.bi
CA eTrust VET	17 January 2006, 06:39	Win32/Blackmal.F
CA eTrust INO	17 January 2006, 16:52	Win32/Cabinet!Worm

¹ From a survey measuring detection of MS06-001 exploits ['Vulnerability in Graphics Rendering Engine Could Allow Remote Code Execution']. Results can be found in [Security Watch: Iniquitous Images Imperil the Internet!](#) [based on analysis by [AV-Test GmbH](#)], PC Magazine 01/2006.

² From a survey measuring response times to the Nyxem.e worm on 16 January 2006. Full results can be found in [Security Watch: Blackworm Blows Up on Friday – Anti-Virus Vendor Response Times to Blackworm](#) [based on analysis by [AV-Test GmbH](#)], PC Magazine 01/2006.