

2014

PC SECURITY LABS

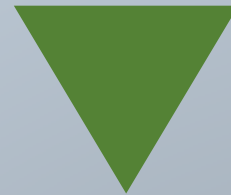
Desktop Security Solution



Performance Review

CPU USAGE

RAM USAGE



Power Consumption

RESOURCE CONSUMPTION

● Video Play – Browsing – File Copy – Installation

Idle

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1. 测试背景

对于电脑和手机用户来说，任何桌面平台和手机平台上的软件对系统资源的消耗和占用都直接影响到用户体验，尤其是我们每天都要使用的桌面安全软件，其对资源的占用和消耗更加需要得到我们重视。系统硬件，比如 CPU、内存、电源、电池等为软件提供了资源支持，通过对相关硬件的监控我们可以从客观上评估软件对系统资源的消耗。硬件负载越高，系统运行速度就越缓慢，耗电量也更大。无论是手机平台还是电脑平台我们认为软件优化可以提高软件效率，降低能源消耗，提高电能利用率。我们可以通过仪器和专用软件去量化这些消耗，但是这对于普通用户来说，可操作性并不大，因此我们将陆续推出各类通用软件的性能测试并把报告提供给广大读者，以供消费者从另一个角度评估和选择软件产品。

值得一提的是，杀毒软件的性能主要体现在对系统资源的占用和系统流畅度的影响上，所以我们监控整机系统资源并通过几个标志性指标来客观的反应杀毒软件的性能水平。

2. 测试简介

无论是手机平台还是电脑平台，软件都是靠硬件来提供资源支撑，软件对硬件资源消耗越大必将导致越高的平均电能消耗（电脑平台）或者更快的电池消耗速度（手机平台）。以电脑平台的桌面安全软件为例，假设平均桌面安全软件的每天使用时间是 5 个小时，如果一款桌面安全软件的平均功耗比行业平均值高 10W，那么每年仅因为该软件造成的耗电量增加将达到 18.25 千瓦时，每年用户将为此多付出近 10 元电费。按照单个软件一亿的装机量来算，每年因此增加的电力资源浪费将达到 10 亿人民币。如何更有效的使用电能是对软件业的极大考验，我们将通过科学的方法来量化相关指标。通过功率仪，我们将获取实时的桌面电脑整体耗电速度；通过专用软件，我们能获取实时的整体桌面电脑 CPU 和内存占用率，这是一个测量系统整体功耗和资源占用量的可靠办法。

3. 测试流程

在测试电脑上安装 Windows 8.1/64 位系统并更新至最新状态，准备镜像文件备用。

测试电脑由远方功率仪监控实时功耗。

测试电脑硬件配置 CPU 为 AMD A4-3300 2.5GHz/SOCKET FM1/1M/65w，内存 8GB DDR3。本次测试我们将预设 4 种用户常用的电脑使用情景：静默状态、网页浏览和视频播放、文件拷贝、软件安装。本次测试我们将读取测试电脑在各个测试情景下的平均 CPU 占用率、平均内存率和平均功耗。最终，每个待测软件都将有 12 组相应数据，我们将 12 组数据的总和最高分定为 100，每组数据的最大得分均一致为 8.333333333，待测软件的综合加权打分为 12 组数据实测得分的总和。

4. 待测软件信息

软件名称	版本号
360 Antivirus	5.0.0.4113
avast! Free Antivirus	2014.9.0.2011
Avira Free Antivirus	14.0.2.286
Baidu Antivirus	1.7.0.1166
Bitdefender Windows 8 Security	16.34.0.1913
BullGuard Internet Security	14.0.276.1
Dr.Web Security Space	9.0.0.12100
ESET Smart Security	7.0.302.26
FortiClient	5.0.7.333
F-Secure Internet Security	14.99 build 103
K7 Ultimate Security	14.1.0216
Kaspersky Internet Security	14.0.0.4651(d)
Kingsoft New Duba	2013.SP6.0.011420
Malwarebytes Anti-Malware Pro	1.75.0.1300
McAfee Internet Security	12.8.903
NANO Antivirus	0.28.057029
Norton Internet Security	21.1.0.18
Panda Cloud Antivirus FREE	2.1.1
Rising Antivirus	24.00.12.91
Tencent PC Manager	8.9.10869
Trend Micro Titanium Maximum Security	7.0.1206-USOB022001.2336
VIPRE Internet Security	7.0.6.2
Windows Defender	4.3.9600.16384
ZoneAlarm Free Antivirus + Firewall version	12.0.104.000

5. 测试结果

5.1 静默状态平均功耗 (15 分钟)

软件名称	平均功耗：瓦特	排名	得分
Kingsoft New Duba	43.019	1	8.333333333
Windows Defender	43.471	2	8.066968390
K7 Ultimate Security	43.748	3	7.903731466
BullGuard Internet Security	44.738	4	7.320321524
avast! Free Antivirus	45.645	5	6.785823728
Bitdefender Windows 8 Security	45.719	6	6.742215308
Avira Free Antivirus	46.031	7	6.558352780
ESET Smart Security	46.215	8	6.449921033
Tencent PC Manager	46.369	9	6.359168376
McAfee Internet Security	46.459	10	6.306131108
FortiClient	46.878	11	6.059213163
Baidu Antivirus	47.151	12	5.898333451
VIPRE Internet Security	47.274	13	5.825849186
Trend Micro Titanium Maximum Security	47.464	14	5.713881621
Rising Antivirus	47.933	15	5.437498527
NANO Antivirus	48.725	16	4.970770573
Norton Internet Security	50.420	17	3.971902034
360 Antivirus	50.439	18	3.960705278
Malwarebytes Anti-Malware Pro	50.919	19	3.677839851
Kaspersky Internet Security	52.506	20	2.742616034
Panda Cloud Antivirus FREE	53.970	21	1.879876482
Dr.Web Security Space	54.270	22	1.703085590
F-Secure Internet Security	54.993	23	1.277019541
ZoneAlarm Free Antivirus + Firewall version	57.160	24	0.000000000

平均功耗最高的得 0 分，平均功耗最低的得 8.333333333 分，其他值都基于线性公式。

5.2 静默状态 CPU 平均占用率 (15 分钟)

软件名称	CPU 占用率 : %	排名	得分
Avira Free Antivirus	5.881	1	8.333333333
Kingsoft New Duba	20.341	2	6.181662887
Windows Defender	23.753	3	5.673951991
K7 Ultimate Security	24.165	4	5.612645751
BullGuard Internet Security	27.399	5	5.131421531
avast! Free Antivirus	28.560	6	4.958662929
Bitdefender Windows 8 Security	29.243	7	4.857031469
FortiClient	29.738	8	4.783374700
Baidu Antivirus	30.902	9	4.610169693
ESET Smart Security	33.214	10	4.266140504
Tencent PC Manager	34.912	11	4.013475469
VIPRE Internet Security	36.300	12	3.806938914
McAfee Internet Security	37.392	13	3.644447619
Rising Antivirus	37.770	14	3.588200632
Trend Micro Titanium Maximum Security	38.593	15	3.465736955
NANO Antivirus	42.849	16	2.832437548
360 Antivirus	43.974	17	2.665035802
Norton Internet Security	47.332	18	2.165360189
Malwarebytes Anti-Malware Pro	47.575	19	2.129201412
Panda Cloud Antivirus FREE	50.090	20	1.754965508
Kaspersky Internet Security	52.806	21	1.350820492
ZoneAlarm Free Antivirus + Firewall version	58.444	22	0.511877340
Dr.Web Security Space	59.584	23	0.342243570
F-Secure Internet Security	61.884	24	0.000000000

平均 CPU 占用率最高的得 0 分，平均功耗最低的得 8.333333333 分，其他值都基于线性公式。

5.3 静默状态内存平均占用率 (15 分钟)

软件名称	内存占用率：%	排名	得分
Windows Defender	11.548	1	8.333333333
avast! Free Antivirus	12.385	2	7.466335198
ESET Smart Security	12.513	3	7.333747669
FortiClient	12.548	4	7.297493267
Tencent PC Manager	12.727	5	7.112077895
Panda Cloud Antivirus FREE	12.783	6	7.054070851
Rising Antivirus	12.860	7	6.974311166
Kingsoft New Duba	13.494	8	6.317588564
BullGuard Internet Security	13.615	9	6.192251916
Baidu Antivirus	13.775	10	6.026517506
VIPRE Internet Security	13.888	11	5.909467578
Trend Micro Titanium Maximum Security	13.997	12	5.796561011
Norton Internet Security	14.124	13	5.665009323
Bitdefender Windows 8 Security	14.532	14	5.242386576
McAfee Internet Security	14.682	15	5.087010566
Malwarebytes Anti-Malware Pro	14.946	16	4.813548788
360 Antivirus	15.059	17	4.696498861
ZoneAlarm Free Antivirus + Firewall version	15.136	18	4.616739175
Kaspersky Internet Security	15.517	19	4.222084110
Dr.Web Security Space	15.625	20	4.110213383
F-Secure Internet Security	15.635	21	4.099854982
NANO Antivirus	16.253	22	3.459705821
K7 Ultimate Security	16.800	23	2.893101305
Avira Free Antivirus	19.593	24	0.000000000

平均内存占用率最高的得 0 分，平均功耗最低的得 8.333333333 分，其他值都基于线性公式。

5.4 网页浏览和视频播放平均功耗 (15 分钟)

软件名称	平均功耗：瓦特	排名	得分
Malwarebytes Anti-Malware Pro	44.200	1	8.333333333
Windows Defender	44.322	2	8.254929179
McAfee Internet Security	44.954	3	7.848769954
Bitdefender Windows 8 Security	45.051	4	7.786432225
360 Antivirus	45.060	5	7.780648312
avast! Free Antivirus	45.078	6	7.769080486
Kaspersky Internet Security	45.102	7	7.753656718
Tencent PC Manager	45.119	8	7.742731549
K7 Ultimate Security	45.172	9	7.708670728
BullGuard Internet Security	45.412	10	7.554433048
NANO Antivirus	45.727	11	7.351996093
Panda Cloud Antivirus FREE	45.773	12	7.322433871
Kingsoft New Duba	45.904	13	7.238245803
Rising Antivirus	46.134	14	7.090434693
VIPRE Internet Security	46.388	15	6.927199815
Avira Free Antivirus	46.550	16	6.823089381
F-Secure Internet Security	46.684	17	6.736973343
Baidu Antivirus	46.689	18	6.733760058
Trend Micro Titanium Maximum Security	46.712	19	6.718978947
Dr.Web Security Space	47.028	20	6.515899334
ZoneAlarm Free Antivirus + Firewall version	47.998	21	5.892522043
FortiClient	48.707	22	5.436878229
Norton Internet Security	48.718	23	5.429809002
ESET Smart Security	57.167	24	0.000000000

平均功耗最高的得 0 分，平均功耗最低的得 8.333333333 分，其他值都基于线性公式。

使用 IE10 访问 5 个链接，并使用 windows media player 播放一段视频。

5.5 网页浏览和视频播放 CPU 平均占用率 (15 分钟)

软件名称	CPU 占用率 : %	排名	得分
BullGuard Internet Security	8.835	1	8.333333333
Kingsoft New Duba	14.034	2	7.391874371
K7 Ultimate Security	14.193	3	7.363081915
Dr.Web Security Space	14.258	4	7.351311415
avast! Free Antivirus	14.311	5	7.341713930
Malwarebytes Anti-Malware Pro	14.373	6	7.330486683
NANO Antivirus	14.740	7	7.264028626
360 Antivirus	14.795	8	7.254068972
Windows Defender	15.007	9	7.215679031
Kaspersky Internet Security	15.303	10	7.162077982
McAfee Internet Security	15.474	11	7.131112511
Tencent PC Manager	15.636	12	7.101776802
Bitdefender Windows 8 Security	15.788	13	7.074251939
Baidu Antivirus	16.503	14	6.944776433
VIPRE Internet Security	16.509	15	6.943689925
Panda Cloud Antivirus FREE	17.861	16	6.698863513
FortiClient	18.125	17	6.651057172
Trend Micro Titanium Maximum Security	18.285	18	6.622083632
Rising Antivirus	18.300	19	6.619367363
F-Secure Internet Security	19.014	20	6.490072941
ZoneAlarm Free Antivirus + Firewall version	23.082	21	5.753420689
Norton Internet Security	25.727	22	5.274451857
Avira Free Antivirus	32.193	23	4.103558675
ESET Smart Security	54.854	24	0.000000000

平均 CPU 占用率最高的得 0 分，平均功耗最低的得 8.333333333 分，其他值都基于线性公式。
使用 IE10 访问 5 个链接，并使用 windows media player 播放一段视频。

5.6 网页浏览和视频播放内存平均占用率 (15 分钟)

软件名称	内存占用率：%	排名	得分
Avira Free Antivirus	13.209	1	8.333333333
Windows Defender	17.704	2	4.291212546
FortiClient	17.957	3	4.063702745
Tencent PC Manager	18.870	4	3.242689112
Rising Antivirus	19.112	5	3.025071041
avast! Free Antivirus	19.193	6	2.952231934
ESET Smart Security	19.386	7	2.778677026
Baidu Antivirus	19.657	8	2.534980756
VIPRE Internet Security	19.795	9	2.410884501
Malwarebytes Anti-Malware Pro	19.818	10	2.390201791
Panda Cloud Antivirus FREE	19.895	11	2.320959678
BullGuard Internet Security	19.971	12	2.252616812
Norton Internet Security	20.227	13	2.022409266
Bitdefender Windows 8 Security	20.426	14	1.843458868
Kingsoft New Duba	20.514	15	1.764325024
Trend Micro Titanium Maximum Security	20.824	16	1.485558073
Kaspersky Internet Security	20.904	17	1.413618215
NANO Antivirus	21.303	18	1.054818172
360 Antivirus	21.352	19	1.010755009
Dr.Web Security Space	21.722	20	0.678033164
McAfee Internet Security	21.847	21	0.565627136
ZoneAlarm Free Antivirus + Firewall version	22.017	22	0.412754937
F-Secure Internet Security	22.155	23	0.288658681
K7 Ultimate Security	22.476	24	0.000000000

平均内存占用率最高的得 0 分，平均功耗最低的得 8.333333333 分，其他值都基于线性公式。

使用 IE10 访问 5 个链接，并使用 windows media player 播放一段视频。

5.7 文件拷贝平均功耗 (15 分钟)

软件名称	平均功耗：瓦特	排名	得分
McAfee Internet Security	44.616	1	8.333333333
Tencent PC Manager	44.740	2	8.260879727
avast! Free Antivirus	45.198	3	7.993268826
ZoneAlarm Free Antivirus + Firewall version	45.713	4	7.692352639
Norton Internet Security	46.028	5	7.508297107
Kingsoft New Duba	46.293	6	7.353456738
360 Antivirus	46.424	7	7.276913009
Baidu Antivirus	47.643	8	6.564647315
Kaspersky Internet Security	48.008	9	6.351376619
Bitdefender Windows 8 Security	49.111	10	5.706890104
Rising Antivirus	49.413	11	5.530430515
F-Secure Internet Security	49.690	12	5.368578507
Avira Free Antivirus	49.767	13	5.323587155
Trend Micro Titanium Maximum Security	49.990	14	5.193287524
Panda Cloud Antivirus FREE	50.422	15	4.940868508
FortiClient	50.741	16	4.754475763
BullGuard Internet Security	50.927	17	4.645795354
NANO Antivirus	52.064	18	3.981442528
Malwarebytes Anti-Malware Pro	52.457	19	3.751811340
Windows Defender	52.459	20	3.750642734
K7 Ultimate Security	53.618	21	3.073435236
ESET Smart Security	53.701	22	3.024938064
VIPRE Internet Security	54.039	23	2.827443556
Dr.Web Security Space	58.878	24	0.000000000

平均功耗最高的得 0 分，平均功耗最低的得 8.333333333 分，其他值都基于线性公式。

从 D 盘拷贝大量干净文件到 C 盘。

5.8 文件拷贝 CPU 平均占用率 (15 分钟)

软件名称	CPU 占用率 : %	排名	得分
avast! Free Antivirus	16.375	1	8.333333333
McAfee Internet Security	18.071	2	8.094626852
Tencent PC Manager	19.527	3	7.889699590
Kingsoft New Duba	21.908	4	7.554581588
ZoneAlarm Free Antivirus + Firewall version	22.187	5	7.515313246
360 Antivirus	25.426	6	7.059434536
Norton Internet Security	26.603	7	6.893775616
Baidu Antivirus	31.827	8	6.158514615
Kaspersky Internet Security	32.796	9	6.022131018
Bitdefender Windows 8 Security	38.006	10	5.288840472
Rising Antivirus	38.276	11	5.250838851
Avira Free Antivirus	38.619	12	5.202562717
Trend Micro Titanium Maximum Security	39.362	13	5.097987885
F-Secure Internet Security	39.435	14	5.087713372
BullGuard Internet Security	41.146	15	4.846895690
Panda Cloud Antivirus FREE	41.476	16	4.800449264
FortiClient	42.454	17	4.662798946
NANO Antivirus	43.456	18	4.521770707
Windows Defender	47.827	19	3.906566680
Malwarebytes Anti-Malware Pro	49.396	20	3.685735036
K7 Ultimate Security	51.741	21	3.355683917
ESET Smart Security	53.752	22	3.072642211
VIPRE Internet Security	56.179	23	2.731049858
Dr.Web Security Space	75.583	24	0.000000000

平均 CPU 占用率最高的得 0 分，平均功耗最低的得 8.333333333 分，其他值都基于线性公式。
从 D 盘拷贝大量干净文件到 C 盘。

5.9 文件拷贝内存平均占用率 (15 分钟)

软件名称	内存占用率：%	排名	得分
FortiClient	13.005	1	8.333333333
Windows Defender	13.043	2	8.278518262
Tencent PC Manager	14.625	3	5.996480295
Malwarebytes Anti-Malware Pro	14.679	4	5.918585194
ESET Smart Security	15.040	5	5.397842017
VIPRE Internet Security	15.085	6	5.332929433
BullGuard Internet Security	15.691	7	4.458773296
avast! Free Antivirus	15.875	8	4.193352951
Bitdefender Windows 8 Security	16.007	9	4.002942704
Avira Free Antivirus	16.212	10	3.707229819
Panda Cloud Antivirus FREE	16.592	11	3.159079107
Baidu Antivirus	16.720	12	2.974438867
NANO Antivirus	16.727	13	2.964341354
Trend Micro Titanium Maximum Security	16.844	14	2.795568634
Rising Antivirus	17.152	15	2.351278057
F-Secure Internet Security	17.306	16	2.129132768
Kaspersky Internet Security	17.454	17	1.915642490
Norton Internet Security	17.574	18	1.742542265
ZoneAlarm Free Antivirus + Firewall version	17.639	19	1.648779643
Kingsoft New Duba	17.732	20	1.514626969
K7 Ultimate Security	17.971	21	1.169869021
McAfee Internet Security	18.102	22	0.980901275
360 Antivirus	18.404	23	0.545265709
Dr.Web Security Space	18.782	24	0.000000000

平均内存占用率最高的得 0 分，平均功耗最低的得 8.333333333 分，其他值都基于线性公式。
从 D 盘拷贝大量干净文件到 C 盘。

5.10 软件安装平均功耗 (15 分钟)

软件名称	平均功耗：瓦特	排名	得分
VIPRE Internet Security	43871	1	8.333333333
avast! Free Antivirus	46521	2	7.230710339
NANO Antivirus	47874	3	6.667748485
BullGuard Internet Security	48360	4	6.465531589
Kingsoft New Duba	48642	5	6.348195859
Avira Free Antivirus	49005	6	6.197157313
K7 Ultimate Security	49126	7	6.146811131
FortiClient	49947	8	5.805206045
Panda Cloud Antivirus FREE	50046	9	5.764013714
Norton Internet Security	51094	10	5.327957526
McAfee Internet Security	51947	11	4.973037747
360 Antivirus	52250	12	4.846964250
Windows Defender	52587	13	4.706743892
ZoneAlarm Free Antivirus + Firewall version	52757	14	4.636009587
Rising Antivirus	52763	15	4.633513082
Baidu Antivirus	53110	16	4.489131882
F-Secure Internet Security	53328	17	4.398425538
Bitdefender Windows 8 Security	53784	18	4.208691166
ESET Smart Security	54610	19	3.865005659
Trend Micro Titanium Maximum Security	55580	20	3.461404034
Kaspersky Internet Security	55845	21	3.351141735
Tencent PC Manager	56299	22	3.162239531
Malwarebytes Anti-Malware Pro	58266	23	2.343802011
Dr.Web Security Space	63899	24	0.000000000

平均功耗最高的得 0 分，平均功耗最低的得 8.333333333 分，其他值都基于线性公式。

在 15 分钟内安装 5 个软件和一个大型游戏，完成所有安装后不执行任何操作直至结束。

5.11 软件安装 CPU 平均占用率 (15 分钟)

软件名称	CPU 占用率 : %	排名	得分
VIPRE Internet Security	24739	1	8.333333333
avast! Free Antivirus	27839	2	7.919417206
Kingsoft New Duba	31749	3	7.397348800
NANO Antivirus	32992	4	7.231381786
BullGuard Internet Security	35439	5	6.904655088
Avira Free Antivirus	35514	6	6.894640988
Panda Cloud Antivirus FREE	38411	7	6.507829691
K7 Ultimate Security	38793	8	6.456824542
Norton Internet Security	41870	9	6.045979406
FortiClient	44551	10	5.688008716
Baidu Antivirus	47934	11	5.236306052
McAfee Internet Security	48884	12	5.109460787
360 Antivirus	49164	13	5.072074815
Rising Antivirus	49198	14	5.067535089
Bitdefender Windows 8 Security	51965	15	4.698081566
Windows Defender	52016	16	4.691271978
ZoneAlarm Free Antivirus + Firewall version	52543	17	4.620906236
ESET Smart Security	54094	18	4.413814651
F-Secure Internet Security	56707	19	4.064923412
Trend Micro Titanium Maximum Security	61560	20	3.416944391
Kaspersky Internet Security	63152	21	3.204378431
Tencent PC Manager	66181	22	2.799942319
Malwarebytes Anti-Malware Pro	66993	23	2.691522998
Dr.Web Security Space	87151	24	0.000000000

平均 CPU 占用率最高的得 0 分，平均功耗最低的得 8.333333333 分，其他值都基于线性公式。
在 15 分钟内安装 5 个软件和一个大型游戏，完成所有安装后不执行任何操作直至结束。

5.12 软件安装内存平均占用率 (15 分钟)

软件名称	内存占用率：%	排名	得分
avast! Free Antivirus	12864	1	8.333333333
FortiClient	12897	2	8.290005777
Windows Defender	13021	3	8.127199202
Panda Cloud Antivirus FREE	13765	4	7.150359750
Baidu Antivirus	14040	5	6.789296781
VIPRE Internet Security	14147	6	6.648810462
Tencent PC Manager	14221	7	6.551651699
Avira Free Antivirus	14436	8	6.269366105
Kingsoft New Duba	14634	9	6.009400767
ZoneAlarm Free Antivirus + Firewall version	15292	10	5.145475553
BullGuard Internet Security	15295	11	5.141536684
ESET Smart Security	15367	12	5.047003834
Trend Micro Titanium Maximum Security	15392	13	5.014179928
Malwarebytes Anti-Malware Pro	15836	14	4.431227352
McAfee Internet Security	16057	15	4.141064020
Norton Internet Security	16072	16	4.121369676
Kaspersky Internet Security	16392	17	3.701223675
360 Antivirus	16456	18	3.617194475
Bitdefender Windows 8 Security	16697	19	3.300772018
NANO Antivirus	16794	20	3.173415262
Dr.Web Security Space	17408	21	2.367260123
Rising Antivirus	17645	22	2.056089491
F-Secure Internet Security	17745	23	1.924793866
K7 Ultimate Security	19211	24	0.000000000

平均内存占用率最高的得 0 分，平均功耗最低的得 8.333333333 分，其他值都基于线性公式。

在 15 分钟内安装 5 个软件和一个大型游戏，完成所有安装后不执行任何操作直至结束。

5.13 综合评分

软件名称	得分	排名	推荐级别
avast! Free Antivirus	81.277264194	1	大力推荐
Windows Defender	75.297017217	2	
Kingsoft New Duba	73.404640705	3	推荐
FortiClient	71.825547856	4	推荐
Tencent PC Manager	70.232812365	5	推荐
BullGuard Internet Security	69.247565865	6	推荐
Avira Free Antivirus	67.746211599	7	推荐
VIPRE Internet Security	66.030929894	8	推荐
Baidu Antivirus	64.960873408	9	推荐
McAfee Internet Security	62.215522909	10	
Bitdefender Windows 8 Security	60.751994415	11	
Panda Cloud Antivirus FREE	59.353769936	12	
Rising Antivirus	57.624568506	13	
Norton Internet Security	56.168863266	14	
360 Antivirus	55.785559026	15	
NANO Antivirus	55.473856954	16	
Trend Micro Titanium Maximum Security	54.782172634	17	
K7 Ultimate Security	51.683855013	18	
Malwarebytes Anti-Malware Pro	51.497295788	19	
Kaspersky Internet Security	49.190767520	20	
ZoneAlarm Free Antivirus + Firewall version	48.446151087	21	
ESET Smart Security	45.649732668	22	
F-Secure Internet Security	41.866146951	23	
Dr.Web Security Space	23.068046580	24	

- 我们使用微软公司的 Windows Defender 作为基准线。
- 高于微软 Windows Defender 分数 5%以上的，我们评为大力推荐级别。
- 介于高于微软 Windows Defender 分数 5%以内和低于微软 Windows Defender 分数 15%以内之间的我们评为推荐级别。

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