Version Information

Operating system setup and program version of tested products.

Developer, Distributor	Avira	AVG	Avast	HideMyAss	Bitdefender	Kaspersky Lab
Product name	Avira Phantom VPN Pro	AVG Secure VPN	Avast SecureLine VPN	HMA	Bitdefender Premium VPN	Kaspersky Secure Connnection
Language of the tested version	English					
Program version Windows	2.34.3.23037	1.10.0765	5.6.4982	5.1.259	25.0.1.12	21.1.15.500 (a)
Program version Android	3.6.2, build 3245	2.7.5275	6.6.13206	5.16.5234	1.0.1.21	1.30.0.635
Operating system	Windows10 Pro (English), (64-Bit)					
Operating system Mobile	Android 8.0.0					
Location (Europe / United States / Asia)	Netherlands - Amsterdam / US - San Francisco / Japan - Tokyo	Netherlands - Amsterdam / US - San Francisco / Japan - Tokyo	Netherlands - Amsterdam / US - San Francisco / Japan - Tokyo	Netherlands - Amsterdam / US - San Jose / Japan - Tokyo	Netherlands / United States / Japan	Netherlands / USA- West Coast /Japan

Usability

Features and tools to improve ease of use for the user.

Convenience

	Avira Phantom VPN Pro	AVG Secure VPN	Avast SecureLine VPN	HMA	Bitdefender Premium VPN	Kaspersky Secure Connnection
Number of supported languages[1]	12	19	43	28	19	30+
Automatically reconnect after reboot	-	+	+	+	-	+
Use previously used or set connection	+	+	+	+	+	+

[1]   Provider information

Compatibility

	Avira Phantom VPN Pro	AVG Secure VPN	Avast SecureLine VPN	HMA	Bitdefender Premium VPN	Kaspersky Secure Connnection
Native OS support Win (XP/Vista/7/8/10) / MacOS / Linux / ChromeOS[1]	+ / + / - / -	+ / + / - / -	+ / + / - / -	+ / + / + / -	+ / + / - / -	+ / + / - / -
Native Mobile OS support iOS / Android / AndroidTV / FireTV[1]	+ / + / - / -	+ / + / - / -	+ / + / + / -	+ / + / + / -	+ / + / - / -	+ / + / - / -
Browser support Chrome / Edge / Firefox[1]	+ / - / -	+* / - / -	+ / - / -	+ / - / +	- / - / -	- / - / -
Option for manual setup available (installation through configuration e.g. Router, OpenVPN app etc.)[1]	-	+	-	+	-	-

[1]   Provider information
*   AVG Secure VPN Chrome extension is expected to be released in 2020

Date of compilation: 2020-10-09; last update: 2020-12-03, created by AV-TEST GmbH https://www.av-test.org
Full report: https://www.av-test.org/en/news/6-vpn-packages-put-to-the-test-under-windows-10/

Licensing

	Avira Phantom VPN Pro	AVG Secure VPN	Avast SecureLine VPN	HMA	Bitdefender Premium VPN	Kaspersky Secure Connnection
Number of days trial is available for[1]	0 days	7 days	7 days	7 days	7 days	7 days*
Money-back option for how many days[1]	30 days	30 days	30 days	30 days	30 days	30 days
Number of devices per license[1]	unlimited	5	1, 5	5	10	5
No registration required for user	-	+	+	+	-	+
Location AS (Japan) Payment Methods available PayPal / Bank Transfer / Bitcoins / DebitCard / Credit card (provider information)	+ / - / - / - / +	+ / - / - / - / +	+ / - / - / - / +	+ / + / - / - / +	+ / + / - / + / +	+ / - / - / + / +
Location EU (Holland) Payment Methods available PayPal / Bank Transfer / Bitcoins / DebitCard / Credit card (provider information)	+ / - / - / - / +	+ / + / - / + / +	+ / + / - / + / +	+ / + / - / + / +	+ / + / - / + / +	+ / + / - / + / +
Location US Payment Methods available PayPal / Bank Transfer / Bitcoins / DebitCard / Credit card (provider information)	+ / - / - / - / +	+ / - / - / - / +	+ / - / - / - / +	+ / + / - / - / +	+ / + / - / + / +	+ / - / - / + / +

[1]   Provider information
*   Android, iOS and Mac

Location of Servers

	Avira Phantom VPN Pro	AVG Secure VPN	Avast SecureLine VPN	HMA	Bitdefender Premium VPN	Kaspersky Secure Connnection
Number of countries with server[1]	37	36	33	190+	27	24
Number of server locations (actual server location)[1]	50*	50+	54	290+	27*	27
Option to set a default/favourite server for VPN connection	+	+	+	+	+	+
Optimal Location selection provided	+	+	+	+	+	+

[1]   Provider information
*   Updated on 2020-12-03 to reflect the number of server locations during the testing period (previously the number of provided servers were included).

Additional (Win/Android)

	Avira Phantom VPN Pro	AVG Secure VPN	Avast SecureLine VPN	HMA	Bitdefender Premium VPN	Kaspersky Secure Connnection
Automatically connect when launching the app	- / -	+ / -	+ / -	+ / -	- / -	+ / -
Launch a specific application after establishing a connection	- / -	- / -	- / -	- / -	- / -	- / -
Wi-Fi automatic protection	+ / +	+* / +	+* / +	+* / +	+ / -	+ / +
App Protection (Inverse Split Tunnelling)	- / -	- / +	- / +	- / +	- / -	- / -
Ability to add exceptions (Split Tunnelling)	- / -	- / -	- / -	- / -	- / -	- / -

*   Automatic connection but not specific to wifi

Support

	Avira Phantom VPN Pro	AVG Secure VPN	Avast SecureLine VPN	HMA	Bitdefender Premium VPN	Kaspersky Secure Connnection
Chat / Forum / Contact support	- / + / +	- / + / +	- / + / +	+ / + / +	+ / + / +	- / + / +
Support Tor / All locations supported	+ / +	+ / +	+ / +	+ / +	+ / +	+ / +
Support torrents / Accessible from all locations	+ / +	+ / -	+ / -	+ / +	+ / +	+ / +
Support IPv6 addressing	+	-	+	-	-	-
Support for Socks5 / Accessible from all locations¹	- / -	- / -	- / -	- / -	- / -	- / -
Support video streaming circumvention (watch geo locked content from the US) / Accessible from all locations	+	+	+	+	+*	+
Working Netflix (through Netflix US) / Accessible from all locations	+	+	+	+	+	+

¹   Provider information

*   Some not all streaming services were unblocked when tested.

Security

Detailed information on how well does the product secures the real user IP as well as help protecting the user.

DNS Leak Test

	Avira Phantom VPN Pro	AVG Secure VPN	Avast SecureLine VPN	HMA	Bitdefender Premium VPN	Kaspersky Secure Connnection
Not possible to see the internet provider (Win/Android)	+ / +	+ / +	+ / +	+ / +	+ / +	+ / +

IP Address & Kill switch leak

	Avira Phantom VPN Pro	AVG Secure VPN	Avast SecureLine VPN	HMA	Bitdefender Premium VPN	Kaspersky Secure Connnection
Kill switch option available (Win)	+	+	+	+	+	+
Kill switch disables connection until the VPN is established (disable-enable network card)	+	+	+	+	+	+
Kill switch duration disconnected in seconds	0	0	0	0	0	0
Kill switch disables connection until the VPN is established (pull plug), 0sec / 10sec / 300sec	+ / + / +	+ / + / +	+ / + / +	+ / + / +	+ / + / +	+ / + / +
Kill switch duration disconnected in seconds	- / - / -	0 / 0 / 0	0 / 0 / 0	0 / 0 / 0	0 / 0 / 0	0 / 0 / 0
Kill switch option available (Android)	-	+	+	+	+	+
Kill switch disables connection until the VPN is established (disable wan on router)		+	+	+	+	+
Kill switch duration disconnected in seconds	0	0	0	0	0	0
Kill switch disables connection until the VPN is established (disable wlan on router), 0sec / 10sec / 300sec	- / - / -	+ / + / +	+ / + / +	+ / + / +	+ / + / +	+ / + / +
Kill switch duration disconnected in seconds	2 / 3 / 3	0 / 0 / 0	0 / 0 / 0	0 / 0 / 0	0 / 0 / 0	0 / 0 / 0

WebRTC leak

	Avira Phantom VPN Pro	AVG Secure VPN	Avast SecureLine VPN	HMA	Bitdefender Premium VPN	Kaspersky Secure Connnection
Protection against browser leak (Win/Android)	+ / +	+ / +	+ / +	+ / +	+ / +	+ / +

P2P & Torrent Protection

	Avira Phantom VPN Pro	AVG Secure VPN	Avast SecureLine VPN	HMA	Bitdefender Premium VPN	Kaspersky Secure Connnection
Not possible to determine location (Win/Android)	+ / +	+ / +	+ / +	+ / +	+ / +	+ / +

Email Leak

	Avira Phantom VPN Pro	AVG Secure VPN	Avast SecureLine VPN	HMA	Bitdefender Premium VPN	Kaspersky Secure Connnection
No Leaked IP (Win/Android)	+ / +	+ / +	+ / +	+ / +	+ / +	+ / +

False Positive Detection Test

	Avira Phantom VPN Pro	AVG Secure VPN	Avast SecureLine VPN	HMA	Bitdefender Premium VPN	Kaspersky Secure Connnection
Number of files classified by AV as threatening/dangerous (Win/Android)	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
Number of files classified by AV as potentially dangerous - (Win/Android)	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0

Malicious URL Test

	Avira Phantom VPN Pro	AVG Secure VPN	Avast SecureLine VPN	HMA	Bitdefender Premium VPN	Kaspersky Secure Connnection
Malware website protection	+	-	-	-	-	-
Phishing Websites	+	n/a	n/a	n/a	n/a	n/a
Malware Websites	+	n/a	n/a	n/a	n/a	n/a

n/a   not applicable

Privacy

Details regarding user privacy provided by the VPN provider.

Logging

	Avira Phantom VPN Pro	AVG Secure VPN	Avast SecureLine VPN	HMA	Bitdefender Premium VPN	Kaspersky Secure Connnection
General statement of no personal user data is logged¹	+	-	+	+*	+	+
How long will logged data be stored¹	n/a	n/a	n/a	35 days	n/a	n/a

¹ Provider information
* No personal data like browser history, websites visited, or DNS queries only part of the IP is logged
n/a not applicable

Server Tunnel and Encryption

	Avira Phantom VPN Pro	AVG Secure VPN	Avast SecureLine VPN	HMA	Bitdefender Premium VPN	Kaspersky Secure Connnection
Available protocols (provider information or third party) ¹	Windows, MacOS Desktop, Android (old) - OpenVPN MacOS AppStore, IPhone, IPad - IPSec Android (new) - Wireguard	OpenVPN, L2TP/IPSec	OpenVPN, OpenSSL Mac and iOS - Ipsec	Windows and Android – OpenVPN Mac and iOS - IKEv2/IPsec	Windows, Android and IOS - Hydra Mac - IPsec	Windows and Mac - Hydra Android and IOS - OpenVPN
How is the data encrypted¹	256-bit AES encryption	256-bit AES encryption	256-bit AES encryption	256-bit AES encryption	256-bit AES encryption	256-bit AES encryption

¹ Provider information

Performance

Local connection measures, Asia to Asia, EU to EU and US to US

	Reference	Test Average	Avira Phantom VPN Pro	AVG Secure VPN	Avast SecureLine VPN	HMA	Bitdefender Premium VPN	Kaspersky Secure Connnection
Stream Average (Mb/s)	219.75	178.60	174.29	146.64	147.48	137.68	293.64	171.88
Torrent Average (KB/s)	20030.76	9761.01	n/a	8354.06	11045.67	8172.18	11768.21	10749.58
Latency (ms)	26.15	64.30	36.28	39.38	38.59	37.78	117.33	116.44*
Downlink (Mb/s)	639.53	133.27	120.88	136.37	135.78	116.94	164.18	125.47*
Uplink Average (Mb/s)	138.63	59.81	73.62	52.94	52.45	78.62	57.49	43.76*

n/a   not applicable, not enough tested results
*   Results were measured before a software bug was discovered by Kaspersky. Actual performances in real life are likely to improve.

Local connection measures, Asia to EU and US, EU to Asia and US and US to Asia and EU

	Reference	Test Average	Avira Phantom VPN Pro	AVG Secure VPN	Avast SecureLine VPN	HMA	Bitdefender Premium VPN	Kaspersky Secure Connnection
Stream Average (Mb/s)	n/a	114.30	56.41	52.78	60.80	43.59	284.75	187.45
Torrent Average (KB/s)	n/a	9131.17	n/a	7605.94	7877.01	7696.96	10523.36	10698.43
Latency (ms)	259.80	266.98	276.19	259.49	263.22	258.85	298.88	245.24
Downlink (Mb/s)	204.77	52.62	20.81	15.74	15.68	12.45	134.23	116.83
Uplink Average (Mb/s)	58.77	25.57	34.42	5.17	5.15	38.46	35.73	34.48

n/a   not applicable, not enough tested results

Transparency

How transparent and open are the vendors with their company information and privacy policies.

Transparency Report

	Avira Phantom VPN Pro	AVG Secure VPN	Avast SecureLine VPN	HMA	Bitdefender Premium VPN	Kaspersky Secure Connnection
Transparency Report made available	+	-	+	+	-	-*
At least annually updated	+	n/a	-	-	n/a	n/a
Information about requests for data during the last transparency report period	+	n/a	+	+	n/a	n/a
Requests for data during the last transparency report period	10	n/a	79	155	n/a	n/a
Information about data shared during the last transparency report period	+	n/a	+	+	n/a	n/a
Data shared during the last transparency report period	0	n/a	1	5	n/a	n/a
Previous reports available	+	-	+	+	-	-

*   To be published for the first time by the end of 2020
n/a   not applicable

Warrant Canary

	Avira Phantom VPN Pro	AVG Secure VPN	Avast SecureLine VPN	HMA	Bitdefender Premium VPN	Kaspersky Secure Connnection
Warrant Canary available / Date last updated provided	+ / -	+ / +	+ / +	+ / +	- / -	- / -
If not, has it ever been available ?	n/a	n/a	n/a	n/a	-	-

n/a   not applicable

Company Details

	Avira Phantom VPN Pro	AVG Secure VPN	Avast SecureLine VPN	HMA	Bitdefender Premium VPN	Kaspersky Secure Connnection
CEO	+	+*	+	-*	+	+
Board of Directors or Management Team details	+	+*	+	-*	+	+
No Third Party Investors	+	-*	-	-*	-	+
Official Address	+	+	+	+	+	+
Main offices information provided[1]	+	+	+	+	+	+
Additional offices information provided[1]	+	+	+	-	+	+
Jurisdiction	Germany	Czech Republic	Czech Republic	England	Romania	Russia
Company Founding date information available[1]	1986	1988	1991	2005	2001	1997
Parent Company	-	Avast	-	Avast	-	Kaspersky Labs Limited
Parent Company Jurisdiction	n/a	Czech Republic	n/a	Czech Republic	n/a	UK
Available Privacy Statement (EULA, GTC)	+	+	+	+	+	+
Update (creation) date included	+	+	+	+	+	-
Provided contact details for data protection office	+	+	+	+	+	+
Provided information on data collection.	+	+	+	+	+	+
Is the purpose for data collection specified	+	+	+	+	+	+
Is an expiration date for data collected provided	+	+	+	+	+	+
Information provided about how the data kept safe (Data -security and -integrity, Incident Response plan etc.)	+	+	+	+	-	+
Is data anonymised	+	+	+	-	+	+
Information provided on data sharing or selling and if so the purpose and receiving party	+	+	+	+	+	+
Information about third-parties collecting of personal information and if so the purpose and receiving party	-	+	+	+	+	+

[1]   Provider information

*   Owned by Avast

n/a   not applicable