



**Products Claims Testing  
Claims Test ADPC0122  
Blackbelt Smartphone  
Defence**

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Revision 1.1

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Distribution: Confidential

## DISCLAIMER

The Product Claims Test is presented as the outcome of a specific test ran in laboratory environment under controlled conditions. Use of this certified product for the purpose of sanitizing data from devices tested needs to be done so after a risk assessment process. ADISA reserves the right to review the validity of this award upon changes in threat landscape.

## LIABILITY

ADISA accepts no liability for any claims resulting from the use of the product tested.

## REVISION HISTORY

18/10/2021	v1.0 issued to Steve Mellings
19/10/2021	v1.1 issued to Brejesh Chauhan



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## 1.0 Executive Summary

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This is the final report detailing the findings in relation to the execution of the ADISA Testing Methodology on Claims Test ADPC0122 submitted by Harbinder Garchay of Blackbelt Smartphone Defence in October 2021

The claims test was carried out in accordance with ADISA Claims Testing (ACT) v1.0 and supporting document ADISA Testing Methodology v1.4, both of which are available from ADISA.

The claim made for the drive was:

*“BlackBelt 360 software version 1.0.7.4, when used in accordance with User Manual will overwrite all available data on the hardware sample within this test to protect to a forensic attack equivalent to test level 1 of the ADISA threat matrix” ADPC0122*

One device was submitted as part of this test, and these are listed below:

<i>Device</i>	<i>Test Level</i>
SK Hynix SSD Model number BC511NVME	1

After testing it is confirmed that the Blackbelt **claim is true** for the devices tested up to Test Level 1 results. Those devices are:

- SK Hynix SSD Model number BC511NVME

## 2.0 Test Level 1 Testing Solid State Drives

### 2.1 Methodology.

This test phase is designed to evaluate the claim made by recreating an attack by a threat adversary utilising standard COTS forensic tools and techniques.

For each computer hard drive device, the following methodology is performed:

1. The device is connected to a target PC and placed in a stable state.
2. The applicant software was configured in accordance with the manufacturer's instructions.
3. Structured data, the string "ADISA", was written to every logical block address on the hard drive.
4. The device was then imaged using standard imaging techniques to create a base-line forensic image.
5. The device was then erased using the applicant's software in accordance with the manufacturer's instructions.
6. The device was then analysed using the following tools to create a second forensic image:
  - a. Standard commercial tools and techniques such as Access Data/FTK, Forensic Explorer and Encase.
7. The two forensic images (Stage 4 and Stage 6) were then compared and contrasted to ensure that all structured data had been removed.
  - a. For this test, there is no tolerance for remnant structured data and the result is a straight Pass or Fail.

### 2.2 Test Results.

#### Test Level 1 Summary Results

Test Level 1 replicated an attack on these devices being made by an aggressor with capabilities outlined below.

Risk Level	Threat Actor and Compromise Methods	Test Level
1 (Low)	Casual or opportunistic threat actor only able to mount high-level non-invasive and non-destructive software attacks utilising freeware, OS tools and COTS products.  Commercial data recovery organisation able to mount non-invasive and non-destructive software attacks and hardware attacks.	1

#### The Results of Test Level 1.

Hard Drive/Model	Result
SK Hynix SSD Model number BC511NVME	PASS

Pass means that the software Blackbelt 360 mitigates the threat posed by the Threat Actors holding the capabilities outlined by Test Level 1 on the tested devices and the claim made can be confirmed.

### 3.0 Summary and Conclusions.

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**Claims Test Result:** Pass on all device tested

The devices passed the claims test as all-forensic data recovery techniques up to and including ADISA Test Level 1 failed to recover any data. The software tested was the Blackbelt 360.

Claims Test Carried Out By: Godfred Badu

Test Facility: ADISA Research Centre



Signature:

Date: 18<sup>th</sup> October 2021

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