FaceTec's $600,000 Spoof Bounty Program

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Established - October 24th, 2019

Update! Thank you to all the testers who have tried >150,000 Spoof attempts against this program since October 24th, 2019.

Current False Accept Rate = 0/>150,000 or +99.9995% accurate (5.9 Sigma (https://www.facetec.com/wp-content/uploads/2023/09/6-Sigma-Conversion-Table.pdf))

After eight years of intensely focused development, FaceTec has been tested against tens-of-millions of digital and physical spoof artifacts, including hi-res photos and videos, life-like masks, and mannequin heads. Early on, many of these spoof artifacts could fool the system into returning a positive liveness result, but are now easily blocked by the FaceTec AI.

The goal of the Bounty Program is to uncover any potentially unknown vulnerabilities in the Liveness AI and security layers so any issues can be patched and the anti-spoofing capabilities and overall platform security elevated even further.

How to Participate in the Bounty Program

Read and agree to the Terms and Conditions outlined below, and then successfully Spoof or Bypass FaceTec's Liveness Detection with a method that qualifies as Level 1, 2, 3, 4 or 5 on the Liveness.com (http://www.liveness.com) Threat Vector Scale, reproduce it, and be paid a bounty as follows:

Threat	Description	Example	Bounty
Level 1	Hi-res paper & digital photos, hi-def videos exhibiting challenge/response and human-worn paper masks.		Browser, iOS, & Android: $30,000 $90,000 Total
Level 2	Commercially available lifelike dolls, and resin, latex & silicone 3D masks up to USD$300 in price.		Browser, iOS, & Android: $30,000 $90,000 Total
Level 3	Custom-made ultra-realistic 3D masks, sculptures, wax heads, etc. up to USD$3,000 in creation costs.		Browser, iOS, & Android: $40,000 $120,000 Total
Level 4	Successfully decrypt & edit the contents of a 3D FaceScan to contain synthetic data not collected from the session, have the FaceTec Server process it and respond with Liveness Success.	3D FaceScan Tampering (https://dev.facetec.com/security-best-practices#facemap-tampering)	Browser, iOS, & Android: $60,000 $180,000 Total
Level 5	Successfully take over the camera feed & inject previously captured frames that result in the FaceTec Server responding with Liveness Success.	ManyCam (https://manycam.com/) Vcam (https://www.e2esoft.com/vcam/) vlc2Cam (https://vlc2vcam.com/) FakeWebcam (https://www.fakewebcam.com/)	Browser, iOS, & Android: $40,000 $120,000 Total

As the first and only biometric Liveness Detection that can be called "Certified" to Levels 1 & 2 in NIST/NVLAP Lab Presentation Attack Detection (PAD) tests guided by ISO 30107-3, FaceTec® 3D Liveness defends against all of the attacks on the Liveness.com (https://www.Liveness.com) Level 1-5 Threat Vector Scale, and is by far the most secure Liveness Detection software in the world. Tens-of-Millions of diverse Monthly Users prove FaceTec's usability and near universal compatibility with iOS, Android, and Web Browsers, requiring only a .3mp Camera.

The process for attempting to Spoof/Bypass FaceTec is as follows:

1. Go to the following links to access the Bounty Apps configured for testing. These can be run on any supported web browser, Android or iOS device:
    a. No webpage, App or version of FaceTec's Software except the following is eligible for the bounty: **www.FaceTec.com/bounty** (https://bounty.facetec.com), Android Demo App (https://play.google.com/store/apps/details?id=com.facetec.zoomlogin&pcampaignid=MKT-Other-global-all-co-prtnr-py-PartBadge-Mar2515-1), iOS Demo App (https://apps.apple.com/us/app/facetec-id-check/id1465840596)
    b. The FaceTec instance on the Browser Bounty page and the Spoof Bounty Program user interfaces in the Demo Apps have been configured to allow unlimited spoof attempts, but the AI thresholds have not been altered in any way. This is ***exactly*** the same decisioning AI as in the latest FaceTec Server v9.X release.
    c. You may access the FaceTec Spoof Bounty Program from any compatible mobile or desktop browser, or Android, or iOS device.
    d. You may not present a real human face to the camera at any time during a session where a spoof is also displayed. FaceTec will detect if you try to use a real face for one portion of the session and a spoof artifact for another, but this type of spoof attempt is not clearly described by the ISO standard, and is not part of this bounty program.

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e. The Spoof Bounty Program Levels 1-3 are for physical & digital Presentation Attacks only. These are physical artifacts or digital photos or videos displayed on a screen, and presented to the camera.

f. The Spoof Bounty Program Levels 4 & 5 are bypass attacks, such as Digital replay attacks and attacks where the video frames, client-side code or values are altered and/or modified to take over the camera feed itself. To collect a Level 4 or 5 bounty, you must provide to FaceTec with the exact steps needed to perform the bypass/attack including all machine-specific configurations, tools, code, breakpoints, commands, and customized software used to receive a "Liveness Success" from injected media or perform tampering on an already-encrypted 3D FaceScan. You must show FaceTec exactly how to successfully bypass the Camera System or 3D FaceScan Encryption and provide all resources used to do so. A live video conference discussion may be required at FaceTec's discretion.

2. Follow the instructions on the screen to conduct a Liveness Check with your real face.
3. Try to spoof FaceTec with any artifacts or videos that meet the criteria of Level 1, 2, 3, 4 or 5 above, successfully tamper with a 3D FaceScan resulting in a Liveness Success, or Successfully hijack the camera feed and show previously recorded media frames that result in a Liveness Success result.
4. If you present a spoof artifact to the camera and FaceTec returns a “Liveness Confirmed” result, please immediately try again with the same artifact to prove the bypass is reproducible. If you can get the Bounty User Interface to return a second “Liveness Confirmed” result within 2 hours of the first, please immediately send an email bounty@facetec.com (mailto:bounty@facetec.com). To collect the bounty you will be required to provide the following information to claim your bounty:
    a. Your full legal name
    b. The valid email address used to register
    c. Your IP address used and the times of the spoof sessions that bypassed
    d. Device information and your employer’s name
    e. For US citizens: a completed IRS W-9 tax form
    f. A signed NDA with a copy of the Spoof Bounty Program rules agreement
5. If you are able to successfully tamper with a 3D FaceScan and cause FaceTec to return a “Liveness Confirmed” result, please immediately try again with the same method to prove the bypass is reproducible. If you can get the Bounty User Interface to return a second “Liveness Confirmed” result within 2 hours, please immediately send an email bounty@facetec.com (mailto:bounty@facetec.com). To collect the bounty you will be required to provide the following information to claim your bounty:
    a. Your full legal name
    b. The valid email address used to register
    c. Your IP address used and the times of the tampering sessions that bypassed
    d. Device information and your employer’s name
    e. For US citizens: a completed IRS W-9 tax form
    f. A signed NDA with a copy of the Spoof Bounty Program rules agreement

Bounty Program General Rules & Information

1. Program is ongoing, but may be paused or ended at any time.
2. Eligibility: US and non-US residents over the age of 18.
3. Sponsor: FaceTec, Inc. (FaceTec.com)
4. Notifications: If an email reporting a successful spoof is reported to bounty@facetec.com (mailto:bounty@facetec.com) and it is deemed to be a successful bypass under these rules by FaceTec, the Bounty Program participant will receive notice via an email reply within 5 business days of the submission and will be asked to provide the information listed in Section 4 a-f. US citizens will be required to fill out a W-9 tax form, and FaceTec will then issue a 1099-MISC. Non-US citizens will be required to fill out form W-8BEN. All bounty payments will be made in USD.
5. Limitations: The first bounty that is claimed in each of the 3 Levels may result in the Bounty Program to be set to Pending for that Level while the spoof is researched, and a patch created. No spoof attempts that are submitted for a level that is set to Pending are eligible to collect the bounty. Should two successful spoofs be submitted for an artifact level before FaceTec can mark that level to Pending only the first successful spoof as shown by the FaceTec server session time-stamp will be eligible to receive the bounty payout. This page shall be the official means of communication about which Levels are currently eligible for bounty collection.
6. Bounties:
    a. **Level 1 artifact spoof - USD 30,000 Per App spoofed (Browser, Android, & iOS)**
        i. Hi-res paper and digital photos
        ii. Hi-def videos with or without perspective distortion
        iii. Human-worn paper masks
    b. **Level 2 artifact spoof - USD 30,000 Per App spoofed (Browser, Android, & iOS)**
        i. Commercially available lifelike dolls
        ii. Human-worn resin, latex, silicone 3D masks costing less than USD 300
        iii. A purchase receipt must be provided or if handmade, an affidavit that more than 5 hours in artifact creation
    c. **Level 3 artifact spoof - USD 40,000 Per App spoofed (Browser, Android, & iOS)**
        i. Custom-made ultra-realistic 3D masks, wax heads, etc, up to USD 3,000 in creation cost
    d. **Level 4 tampering - USD 60,000 Per App bypassed (Browser, Android, & iOS)**
        i. Successfully decrypt & edit the contents of a 3D FaceScan to contain synthetic data not collected from the current FaceTec session and have the FaceTec Server process it and respond with Liveness Success
    e. **Level 5 camera hijacking - USD 40,000 Per App bypassed (Browser, Android, & iOS)**
        i. Successfully take over the camera feed and inject previously captured photos or video that result in the FaceTec Server responding with Liveness Success
7. General Conditions
    a. No purchase is necessary
    b. All international, federal, state, local, and municipal laws and regulations apply
    c. Void where prohibited

FaceTec Spoof Bounty Rules

This bounty follows Standard Disclosure Terms (the “Standard Disclosure Terms”) as supplemented by the FaceTec Spoof Bounty Rules (“Rules”) set forth below (collectively, the “Agreement”). By submitting any FaceTec product vulnerability (a “Spoof”) through the platform (“Spoof Bounty Program”), you acknowledge that you have read and agree to the Agreement. If there is any inconsistency between the Standard Terms and Conditions and these Rules, these Rules will control but only with regard to the Spoof Bounty Program.

Eligibility Requirements

To be eligible for the Spoof Bounty Program, you must not:

- Be a resident of, or make your Spoof submission from, a country against which the United States has issued export sanctions or other trade restrictions (e.g., Cuba, Iran, North Korea, Sudan and Syria); or
- Be in violation of any national, state, or local law or regulation.

Further, you may not publicly disclose your findings or the contents of your Submissions (as defined below) in any way without FaceTec's prior written approval. If FaceTec discovers that you do not meet any of the criteria above (or violate any other Rules), FaceTec will remove you from the Spoof Bounty Program and disqualify you from receiving any bounty payments. The FaceTec team retains the right and sole discretion to determine if the Spoof submitted to the Spoof Bounty Program is eligible for a bounty. All determinations as to the amount and timing of a bounty made by the FaceTec team are final. Any Spoofs, materials, information or other submissions you provide through the platform shall be considered "Submission(s)" for purposes of these Rules.

FaceTec's Rights to Fully Exploit Submissions

As a condition of participation in the Spoof Bounty Program, you hereby grant FaceTec, its subsidiaries, affiliates, successors and customers a perpetual, irrevocable, worldwide, royalty-free, fully paid-up, transferable, sublicensable (through multiple tiers) and non-exclusive license to use, reproduce, adapt, modify, publish, distribute, publicly perform, create derivative work from, make, use, sell, offer for sale, import and otherwise fully exercise and exploit all of your Submissions and all related intellectual property rights for any purpose. Further, you hereby waive, and irrevocably agree not to assert, any and all claims of any nature arising out of any disclosure of a Submission to FaceTec.

Confidentiality

Any information you receive or collect about FaceTec, its customers, technology, software, applications, performance, security methods and other related information through the Spoof Bounty Program ("Confidential Information") must be kept confidential and only used in connection with the Spoof Bounty Program. You may not use, disclose or distribute any such Confidential Information, including, but not limited to, any information regarding your Submissions and information you obtain when researching the FaceTec products and services, without FaceTec's prior written consent. You may not use any of the information, concepts, computer code, security techniques, sequencing or strategies that you may learn from attempting to reverse engineer FaceTec's technology during your participation in the Spoof Bounty Program for iOS or Android, or using the bounty.facetec.com (https://bounty.facetec.com/) page in any other Liveness Detection product or service offered by any other company. If you do use information that you learn from interacting with FaceTec's technology in any other Liveness Detection Product or Service, you will be held liable for intellectual property theft and will be prosecuted to the fullest extent of the applicable laws.

By participating in the FaceTec Spoof Bounty Program, you expressly acknowledge and agree that the damages that will be suffered by FaceTec for any breach of this agreement by you via threatened or actual misappropriation and/or misuse of FaceTec's confidential information are difficult or impossible to accurately measure. You further acknowledge and agree that any such breach, misappropriation, and/or misuse will cause FaceTec immediate, irreparable harm that cannot be fully or adequately compensated by monetary payment. Therefore, you agree that ten thousand United States dollars is a reasonable estimate of the anticipated or actual damages that might arise from Your breach, which liquidated damages are intended to be compensation, and are not intended and shall not be construed to be a penalty. You further acknowledge and agree that such liquidated damages are not disproportionate to the damages that would be suffered by FaceTec in the event of such breach.

You further expressly agree that in the event of such breach, in addition to these liquidated damages, FaceTec shall be entitled to obtain immediate injunctive relief from a court of competent jurisdiction restraining and/or prohibiting any further violation of this agreement by you, including, without limitation, further misappropriation and/or misuse of FaceTec's Confidential Information, as well as mandating any action by you made necessary in order to recover any confidential information already misappropriated and/or misused. These liquidated damages and injunctive relief are not intended to be exclusive remedies for FaceTec, which shall have the right to pursue any applicable legal or equitable remedies available to it in addition to those expressly enumerated herein.

You acknowledge and agree to provide your legal name and a valid email address at all times when accessing the FaceTec Spoof Bounty Program, and any and all FaceTec Demo Applications, Developer Accounts, Software Development Kits (SDKs), or similar software that requires you to agree to FaceTec's Terms and Conditions. Providing an invalid email address to FaceTec software at any time after you agree to these Terms and Conditions of use shall be a violation of this agreement subject to the liquidated damages provisions described above.

LIMITATION OF LIABILITY

FACETEC AND ITS OFFICERS, AFFILIATES, REPRESENTATIVES, CONTRACTORS AND EMPLOYEES SHALL NOT BE LIABLE WITH RESPECT TO ANY SUBJECT MATTER OF THE AGREEMENT UNDER ANY LEGAL OR EQUITABLE THEORY FOR: (A) ANY INDIRECT, EXEMPLARY, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES; OR (B) ANY AMOUNTS THAT, TOGETHER WITH AMOUNTS ASSOCIATED WITH ALL OTHER CLAIMS, EXCEED THE FEES PAID AND PROPERLY OWED TO YOU IN CONNECTION WITH THE BOUNTY PROGRAM OR, IF GREATER, ONE THOUSAND DOLLARS ($1000), IN EACH CASE, WHETHER OR NOT FACETEC HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

MISCELLANEOUS

This Agreement is not assignable or transferable by you except with FaceTec's prior written consent. FaceTec may transfer and assign any of its rights and obligations under this Agreement without consent. No agency, partnership, joint venture, or employment is created as a result of this Agreement and you do not have any authority of any kind to bind FaceTec in any respect whatsoever. This Agreement shall be governed by the laws of the State of Nevada without regard to its conflict of laws provisions.

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