CMU IoT Security and Privacy Label

Pardis Emami-Naeni, Yuvraj Agarwal, Lorrie Cranor Carnegie Mellon University

Contact contact@iotsecurityprivacy.org for more information

These labels were developed based on an extensive review of IoT security and privacy standards and guidelines, interviews with experts, and consumer testing. Further refinement and user testing is ongoing. It is envisioned that the information on these labels would be self-reported by the device manufacturer. A complete label specification, peer-reviewed papers, a short video, and label generator are available at www.iotsecurityprivacy.org.

Left: Primary layer of the label, designed to be printed on product packaging or website. **Right:** Secondary layer of the label, accessed by scanning the QR code or typing in the URL provided on the primary layer.



For more information and the latest versions of the label, research, and demos visit:

www.iotsecurityprivacy.org

Security & Privacy Details Smart Device Co. Smart Video Doorbell NS200 Firmware version: 2.5.1 - updated on: 11/12/2020 The device was manufactured in: China Security updates Automatic - Available until at least 1/1/2022 Access control Password - Factory default - User changeable. Multi-factor authentication, Multiple user accounts are allowed No security audits Security oversight Ports and protocols www.NS200.smartdeviceco.com/ports • Hardware safety Not disclosed Security Software safety www.NS200.smartdeviceco.com/sw_safety Mechanisms Personal safety www.NS200.smartdeviceco.com/user_safety Vulnerability disclosure and management www.NS200.smartdeviceco.com/vul_report Software and hardware composition list www.NS200.smartdeviceco.com/BOM **Encryption and key management** www.NS200.smartdeviceco.com/encryption Audio Motion Sensor data collection Visual Sensor type Microphone Motion sensor Continuous - Option to opt Continuous - Option to opt Continuous - Option to opt Collection frequency Providing device functions, Providing device functions, Purpose Providing device functions @ Data stored on the device Identified No device storage Pseudonymized No retention Up to a month Local data retention time Identified - Data subject Identified - Option to Data stored in the cloud No cloud storage Up to two months No cloud storage Cloud data retention time Manufacturer Data Manufacturer Manufacturer, Third parties @ Data shared with **Practices** Periodic - Adiustable Periodic - Adiustable Data sharing frequency Not sold Data sold to Not disclosed Third parties Other collected data Account info, Payment info, Contact info, Device setup info, Device tech info, Device usage info Data linkage Data will not be linked with other data sources What will be inferred from user's data Not disclosed Special data handling practices for children No In compliance with **GDPR** Privacy policy www.NS200.smartdeviceco.com/policy Call Smart Device Co. with your questions at 1 000-000-0000 Email Smart Device Co. with your questions at info@smartdeviceco.com Functionality when offline Limited functionality on offline mode More Limited functionality on dumb mode Functionality with no data processing Information Physical actuations and triggers Device blinks when motion is detected Compatible platforms Amazon Alexa CMU IoT Security and Privacy Label CISPL 1.0 iotsecurityprivacy.org