

**IL SOGNO DI TUTTI I
LADRI: TROVARE IL
SISTEMA DI FARE SOLDI
SENZA “SPORCARSI LE
MANI”**



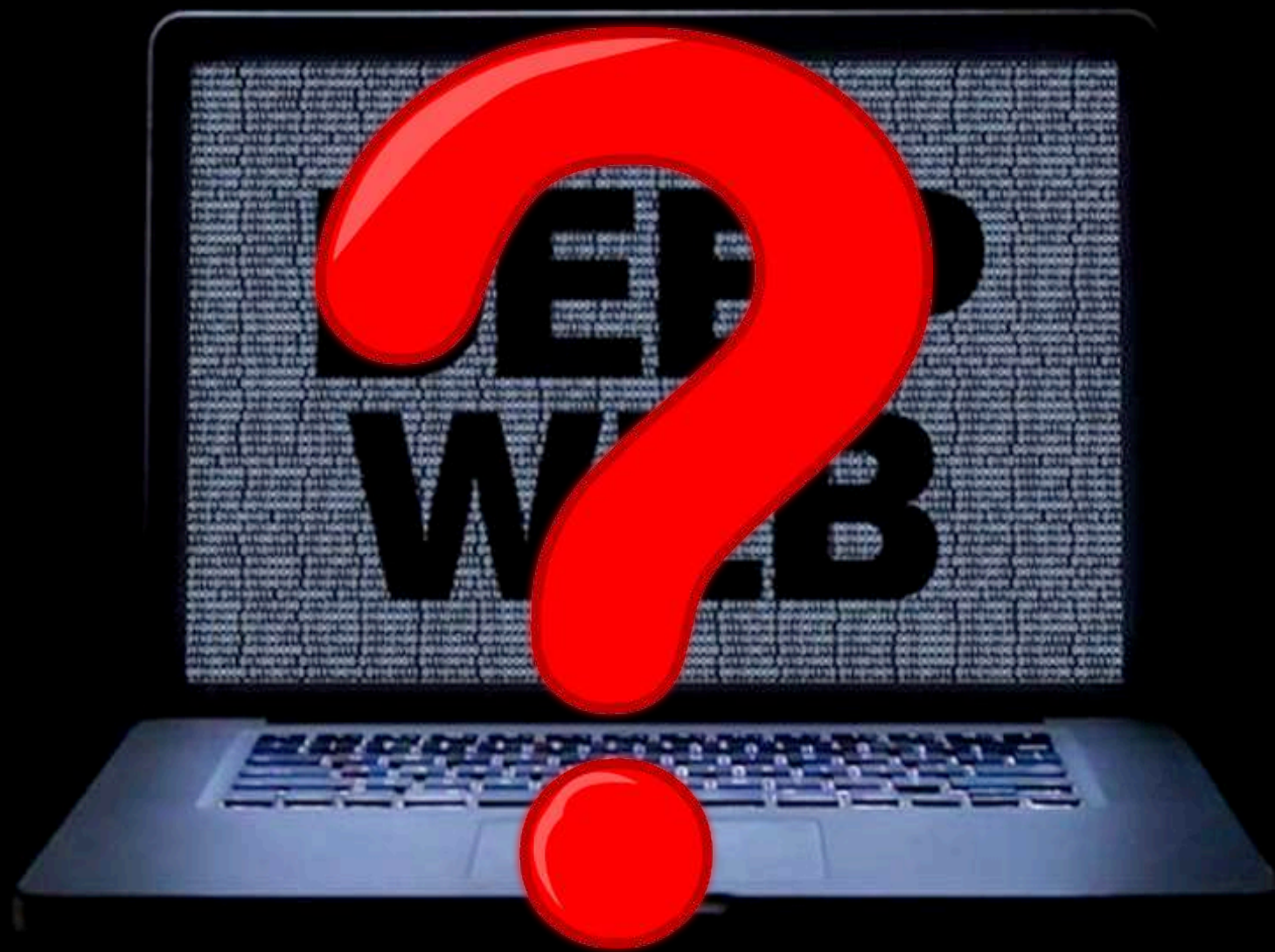






password

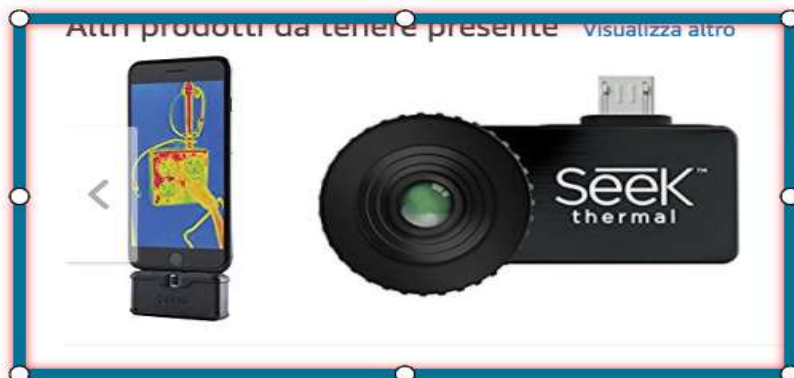






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VIEW MODELS



Seek Thermal Compact Fotocamera per Immagini Termiche con Connettore Micro USB e Custodia Resistente all'Acqua per Dispositivi Android - Nero

di [Seek Thermal](#)



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Prezzo: **EUR 291,24** Spedizione garantita (3 giorni) con Prime

Risparmi: **EUR 7,76 (3%)**

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Standard Range

[XR - Extended Range](#)

Nome stile: **Android Devices**

Android Devices

[Apple iOS Devices](#)

USB e Custodia Resistente all'Acqua per Dispositivi Android - Nero

di [Seek Thermal](#)



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Scorri sopra l'immagine per ingrandirla

FLIR ONE PRO Modulo con telecamera per scansione termica per dispositivi iOS con connettore lightning, misura temperature fino a 400 °C (752 °F), tecnologia brevettata MSX

di FLIR

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- Misura la temperatura delle cose e dell'ambiente che viene inquadrato senza entrare in contatto diretto
- Flir One supera i limiti dell'occhio umano, convertendo l'energia termica visibile in dinamiche immagini a colori
- Tecnologia brevettata msx
- Dimensioni: 69 mm L x 34 mm A x 14 mm P. Peso: 36,5 g

Prezzo: **EUR 495,01** ✓prime | Spedizione 1 giorno

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This Simple iPhone Case can be Used to Steal ATM PINs

Posted on September 15th, 2014 by [Graham Cluley](#)

It's a common wisecrack around the criminal community. This whole stealing ATM PINs thing would be a lot simple if a gadget would just do all the work.

Sounds like a crazy dream, right?

After all, what thief wouldn't love to steal ATM PINs via a handheld device?

This dream, frighteningly for us, may just come true with what appears to be an ordinary iPhone case.

It's called the and it fits the Apple iPhone 5 and 5s. The concept behind it is that the infrared camera on the case can pick up thermal heat signatures and translate them into dynamic color images.

While it's initially created for security, home repairs and outdoor activities, thieves can use it to pick up the thermal heat signatures left behind after an individual punches in a PIN at the ATM or a bank code at the supermarket.

So an amateur ATM-code thief can now buy an iPhone case with infrared-scanning capabilities. Thermal imaging technology—normally reserved for military operations and for hunting—can be bought from online stores and retailers for just a few hundred dollars.

Heat of the Moment: Characterizing the Efficacy of Thermal Camera-Based Attacks

Keaton Mowery
UC San Diego

Sarah Meiklejohn
UC San Diego

Stefan Savage
UC San Diego

Abstract

In this paper, we examine the potential of using a thermal camera to recover codes typed into keypads in a variety of scenarios. This attack has the advantage over using a conventional camera that the codes do not need to be captured *while* they are being typed and can instead be recovered for a short period afterwards. To get the broadest sense of how effective such an attack might be, we consider a number of variables: the material of the keypad, the user entering the code, the distance from the camera to the keypad, and the possible methods used to analyze the data. First, we present code recovery results from human review of our test data set; this provides us with a baseline for the overall effectiveness of thermal camera-based attacks. Second, using techniques from computer vision we automatically extract the code

ATMs and gas stations) in which the user's payment card stripe is acquired via a "skimmer" while a pinhole camera is used to capture the associated PIN as it is entered [6]. In principle, the same style of attack could be used to defeat any keypad-based access control system.

Although optical attacks have proved to be quite effective in practice, they do have two clear limitations: they require real-time capture and they are vulnerable to occlusion. For example, if the user's body or hand blocks the camera's view of the keypad, then the attacker will be unable to recover the PIN code.¹ In 2005, however, Michał Zalewski [12] described how thermal imaging could be used to bypass both limitations. Demonstrating this technique using a keypad lock on an industrial safe, he found that body heat from the user transferred to the individual keys pressed and the resulting thermal

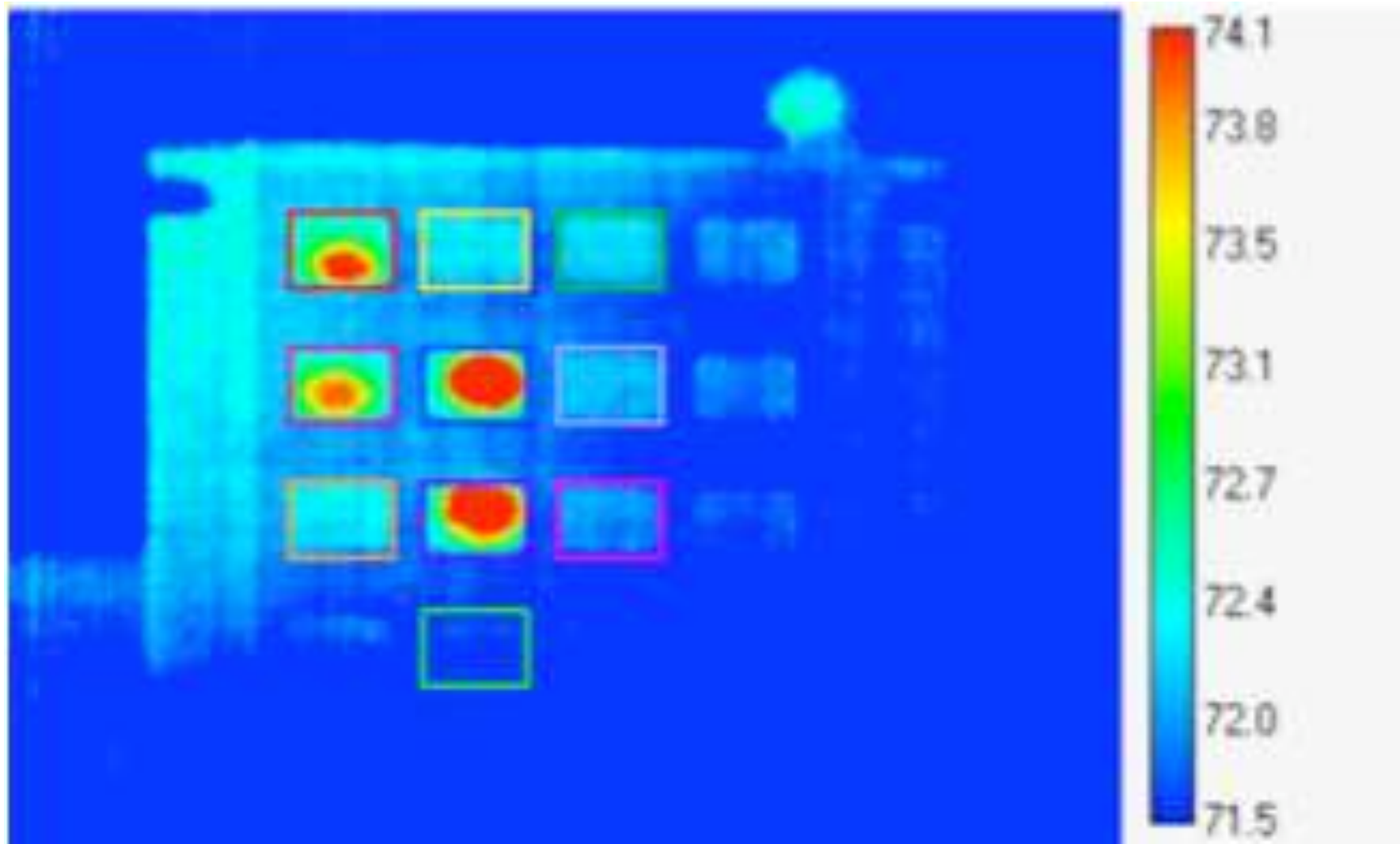


Figure 1: The Dynasystems brushed metal keypad, model 00-101088-008B.

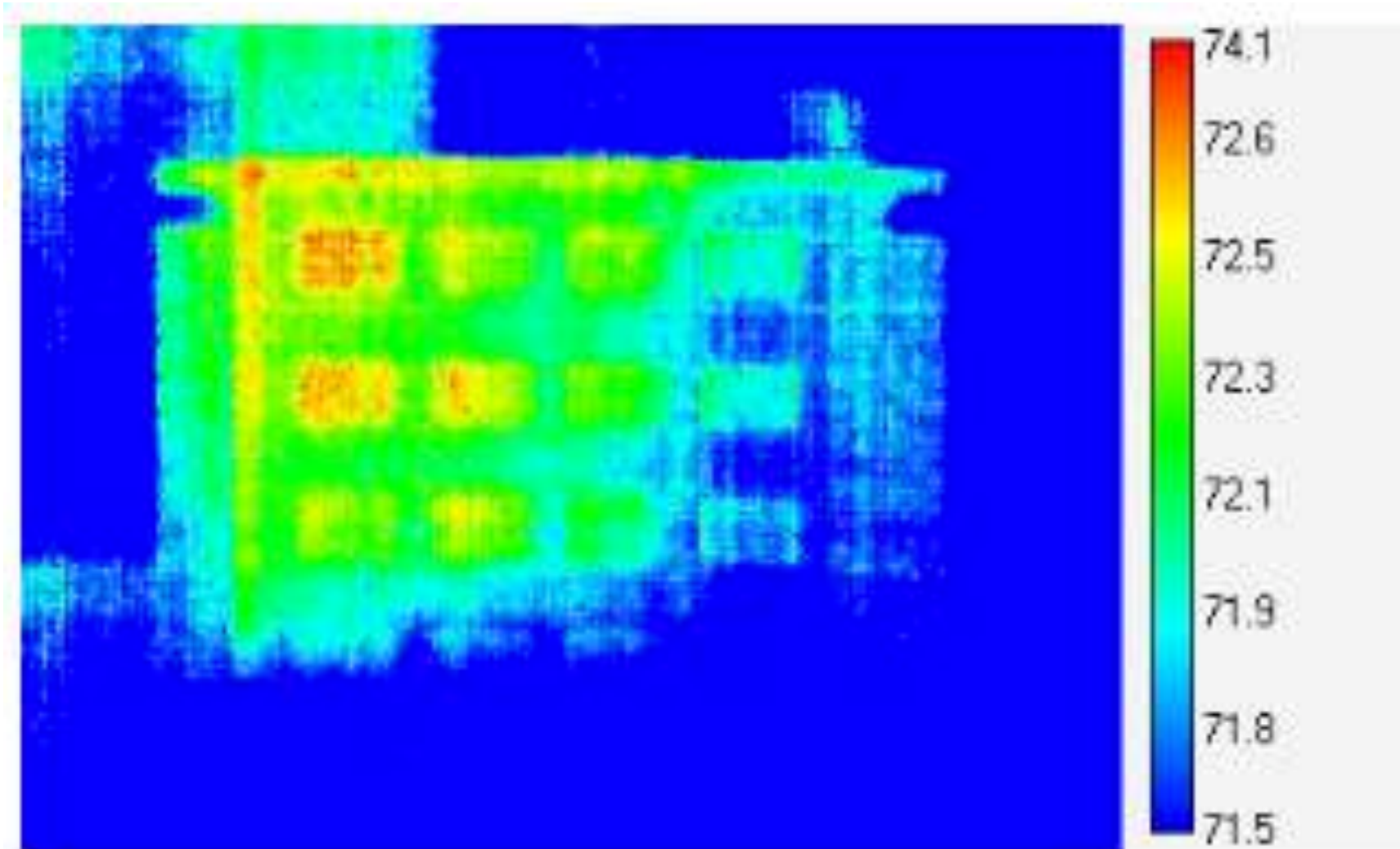


Figure 2: The Diebold plastic ATM keypad with rubber keys, model 19-019062-001M REV1.

IMMEDIATAMENTE DOPO AVER DIGITATO IL PIN



90 SECONDI DOPO AVER DIGITATO IL PIN

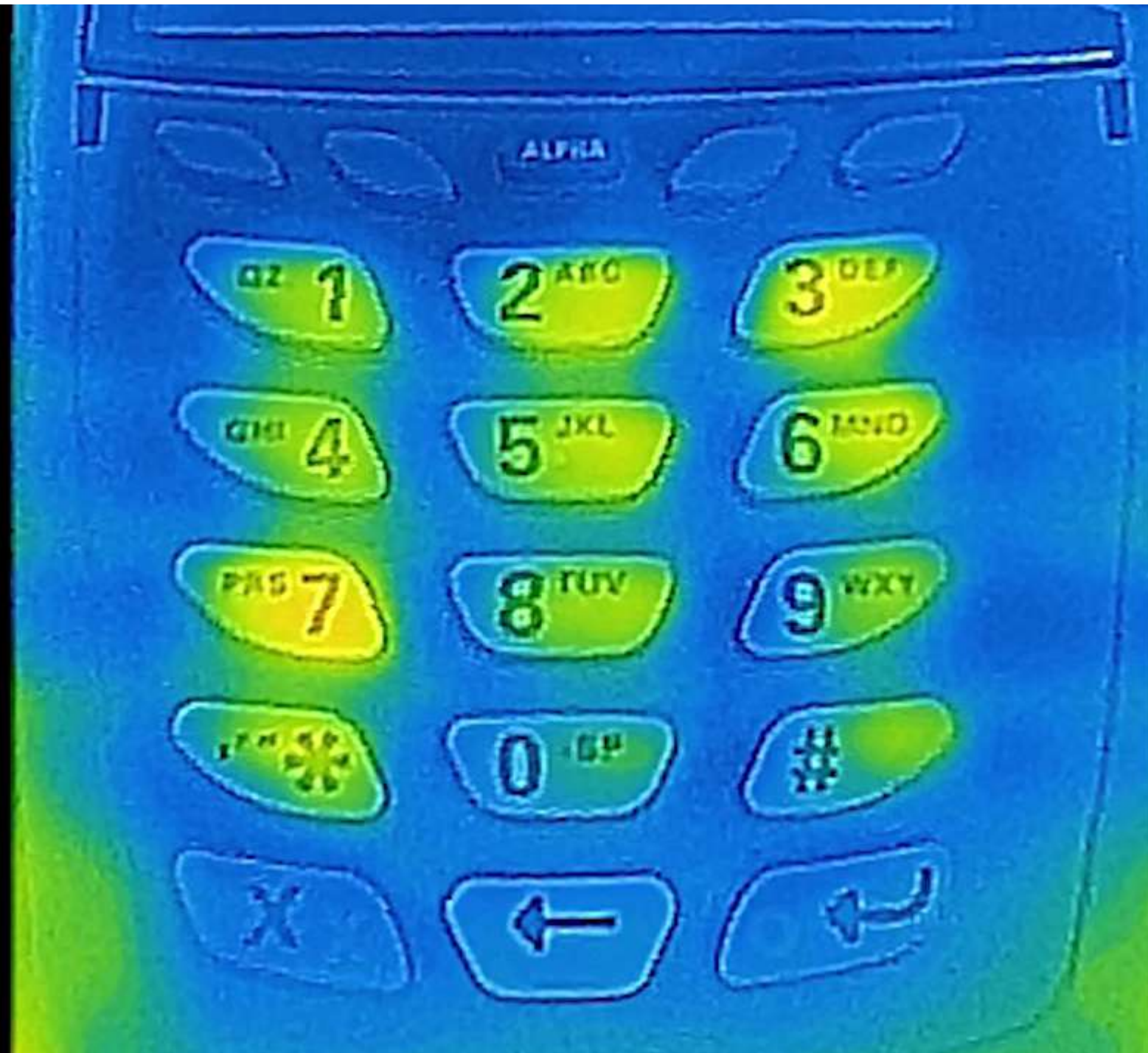












Grazie per l'attenzione

Credits:

Video: What Your Life Looks Like In Thermal (Buzzfeed / YouTube)

Video: iPhone ATM PIN code hack- HOW TO PREVENT (Mark Rober / YouTube)

Music: Lament of the Droids Warner / Chapell Production Music



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