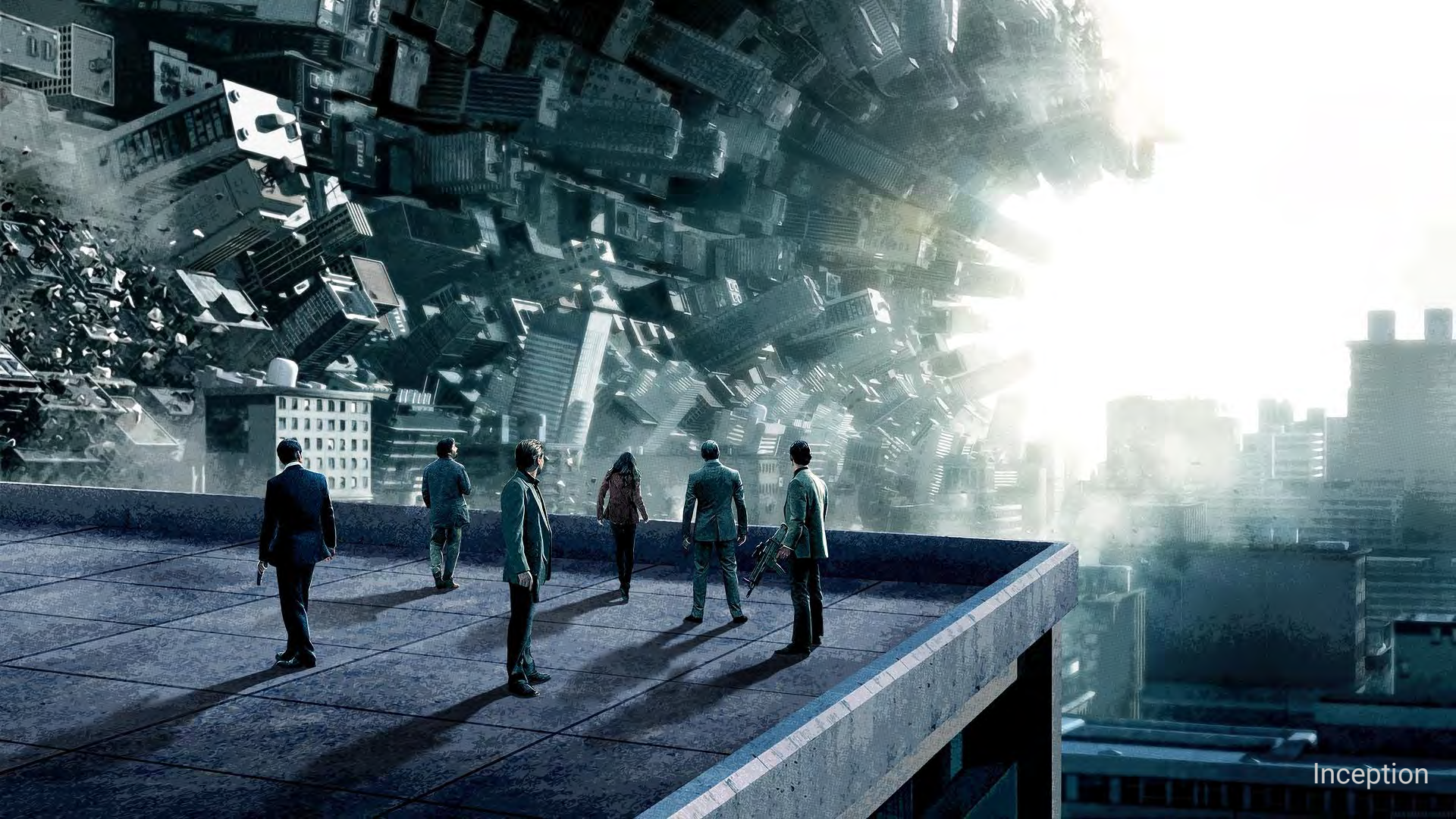


A man in a dark suit and bow tie is seated at a poker table in a dimly lit room. He is looking intently at the table, with his hands resting on it. In the background, there are blurred lights, possibly from a casino or a party. The overall mood is mysterious and sophisticated.

CHEATING AT POKER JAMES BOND STYLE

Elie & Celine Bursztein
Jean Michel Picod





Inception





[\[Redacted Name\]](#) · [\[Redacted Location\]](#)

This busted up poker in east texas a few years ago. Maybe 5 years ago now. A group of guys got away with it for almost a year before one of them spilled the beans to someone and everyone found out. Poker was everywhere here before that, but the cheating turned all the recreational players off and they won't play anymore. Really sucked. Some estimate the guys made 70k before they were caught. No one really knows. Dealers and 1 or 2 hosts were in on it. Some hosts had no idea what the dealers were doing. These were 1-2 NLHE games, maybe some 2-5 games. People were already suspicious before it came out. Someone calls an all in preflop with 9-2o vs KK because they knew they'd be best in the end. Something was up. From how I understand the cheating players had an ear piece and it told them, seat 4-1st place, seat 8-2nd, seat 1-3rd and so on. Really a crap move. Ruined the game for everyone.



€4,980

Gambling predictor number

[View details](#)

21 Blackjack Predictor

Winning hand is: 3
Second hand is: 1



€4,980

Blackjack winner scanner predictor

[View details](#)



€6,070

Cigarette lighter & barcode rummy

[View details](#)



€4,980

Gambling predictor number

[View details](#)

21 Blackjack Predictor

Winning hand is: 3
Second hand is: 1



€4,980

Blackjack winner scanner predictor

[View details](#)



€6,070

Cigarette lighter & barcode rummy

[View details](#)





€4,980
Gambling predictor number

[View details](#)

21 Blackjack Predictor

Winning hand is: 3
Second hand is: 1



€4,980
Blackjack winner scanner predictor

[View details](#)



€6,070
Cigarette lighter & barcode rummy

[View details](#)





€4,980
Gambling predictor number

[View details](#)



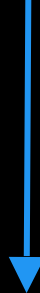
€4,980
Blackjack winner scanner predictor

[View details](#)



€6,070
Cigarette lighter & barcode rummy

[View details](#)





€4,980
Gambling predictor number

[View details](#)



€4,980
Blackjack winner scanner predictor

[View details](#)



€6,070
Cigarette lighter & barcode rummy

[View details](#)













Electronic voice: Heart 2, Diamond 5



Device





www.GSMArena.com

Visible differences



Galaxy Core



Poker cheating device

Security measures

Activation code sent separately

Prevent activation of a “lost” device

ADB / debug mode gone

No “easy” way to get the APK / analyze what is happening

Screenshot shortcut disabled & framebuffer owned by root

Prevent to do screenshot / screencap either via SSH or UI

Fun facts

Custom rom with custom kernel

Chinese 4.2.2 Jelly Bean ROM AOSP

Cheating hardware hidden from the UI/system

No way to trigger the system without the correct application / setup

Backdoor? No need for network or SIM

Lots of phone home code in the APK and lot of weird APK in the phone



App walkthrough



20:59

APPS

WIDGETS



Browser



BusyBox Free



Calculator



Calendar



Camera



Clock



Downloads



Email



ES File Explorer



ES Task Manager



ezPDF 阅读器



File Manager



FM Radio



Gallery



Game



Messaging



Movie Studio



Music



People



Phone

APPS

WIDGETS



Browser



BusyBox Free



Calculator



Calendar



Camera



Clock



Downloads



Email



ES File Explorer



ES Task Manager



ezPDF 阅读器



File Manager



FM Radio



Gallery



Game



Messaging



Movie Studio



Music



People



Phone

Game

Admin

.....

Sign in

Save password [Change password](#)





Menu









Exit



Game

	
Game Hall	Purchased
	
Common Game	Upgrade
	
System Info	Setting


	
Menu	Exit



Game

 Game Hall	 Purchased
 Common Game	 Upgrade
 System Info	 Setting

 Menu	 Exit
--	--



Game

 Game Hall	 Purchased
 Common Game	 Upgrade
 System Info	 Setting





 Menu	 Exit
--	--



Game

 Game Hall	 Purchased
 Common Game	 Upgrade
 System Info	 Setting


 Menu	 Exit
--	--



Game

 Game Hall	 Purchased
 Common Game	 Upgrade
 System Info	 Setting

 Menu	 Exit
--	--



Game












 Game Hall	 Purchased
 Common Game	 Upgrade
 System Info	 Setting

 Menu	 Exit
--	--

Game

 Game Hall	 Purchased
 Common Game	 Upgrade
 System Info	 Setting

 Menu	 Exit
--	--

-  Trio Identical
-  Trio Identical [3005]
-  Trio Identical [9651]
-  Trio Identical [9652]
-  French Game with 40 cards in total [9653]
-  Bullfight
-  Golden Fraud
-  Treasure
-  Small Nine Pairs
-  Big Nine Pairs
-  Big Ace



Menu



Back

Has purchased the game

Can buy the game number : 3 Has
purchased the game number : 2

1. 7-card Texas Hold'em poker [7003]
2. Read the card directly [1016]



Menu



Back

Has purchased the game

Can buy the game number : 3 Has
purchased the game number : 2

1. 7-card Texas Hold'em poker [7003]
2. Read the card directly [1016]



Menu



Back

Game settings

- Load setup : Load manuf... ▼
- Number of people : 2People ▼
- Count: 0 ▼
- Report Type: N1 ▼
- Report Define: F1 ▼
- Report method: Even report ▼
- Out mode : Voice ▼
- Sound mode: Speaker ▼
- Video Selection: Wireless ca... ▼

Video



Play : 1016, Number of people : 2People
P4 disconnect
Results :
H6, D8,



Menu



Back

Up



Down



Cards as seen by camera face down

Play : 1016, Number of people : 2People
P4 disconnect
Results :
H6, D8,



Menu



Back

Up



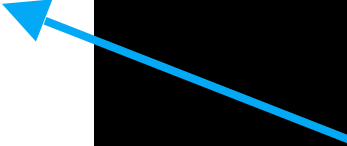
Down

Cards as seen by camera face down



Play : 1016, Number of people : 2People
P4 disconnect
Results :
H6, D8,

Number of players



Menu



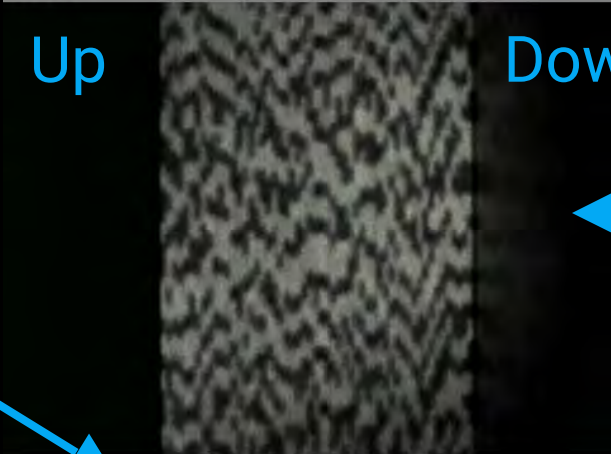
Back

Up

Down

Game type in use

Cards as seen by camera face down



Play : 1016, Number of people : 2People
P4 disconnect
Results :
H6, D8,

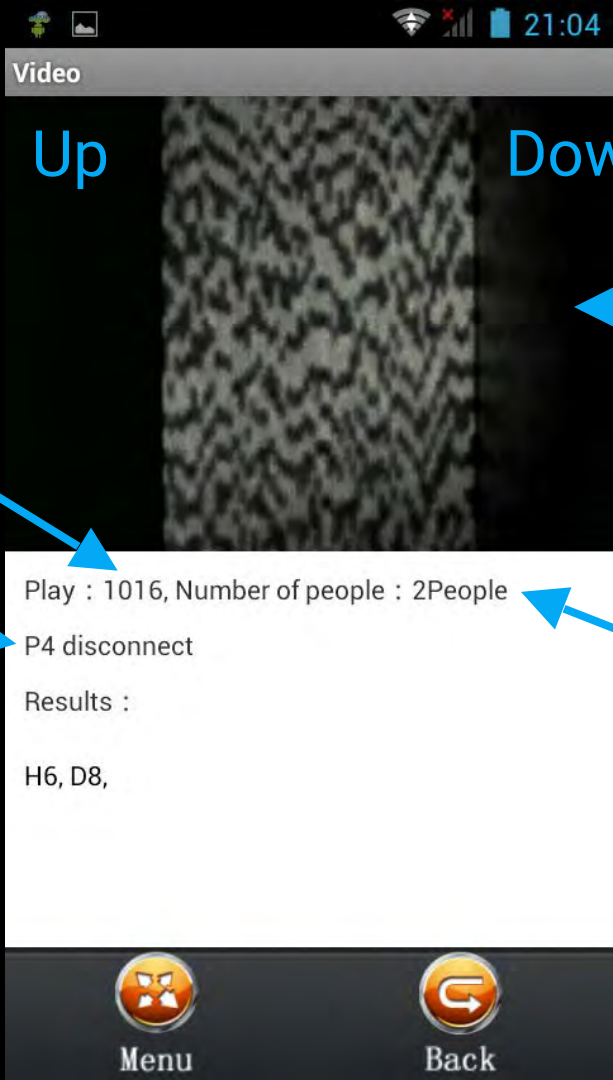
Number of players



Menu



Back



Up

Down

Game
type
in use

Cards as
seen by
camera
face down

Feedback
device

Play : 1016, Number of people : 2People

P4 disconnect

Results :

H6, D8,

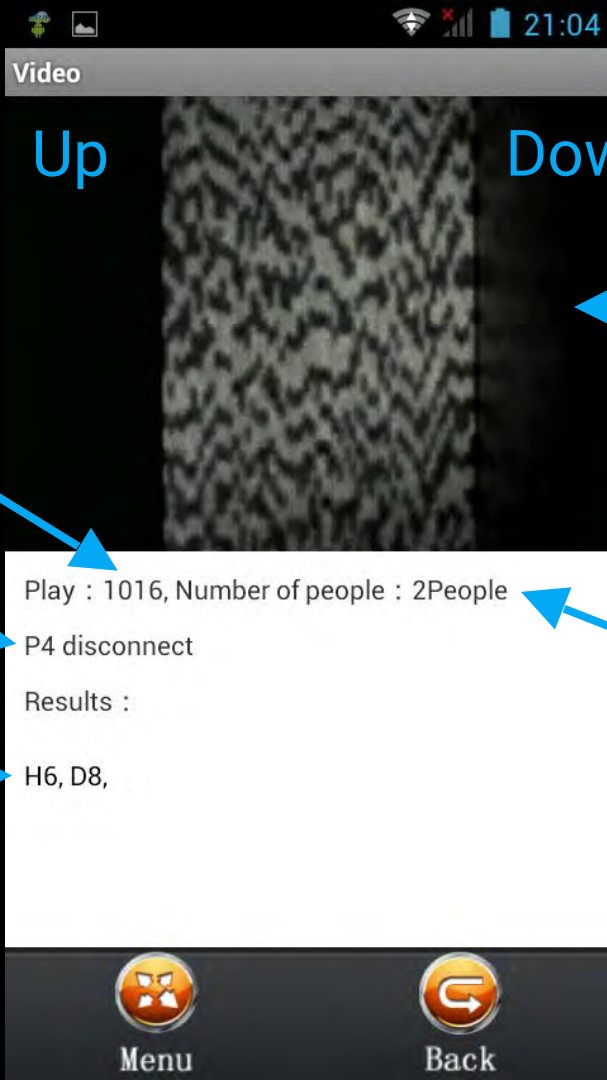
Number of
players



Menu



Back



Video

Up

Down

Play : 1016, Number of people : 2People

P4 disconnect

Results :

H6, D8,



Menu



Back

Game type in use

Feedback device

Result

Cards as seen by camera face down

Number of players

Fun facts

App(s) not obfuscated

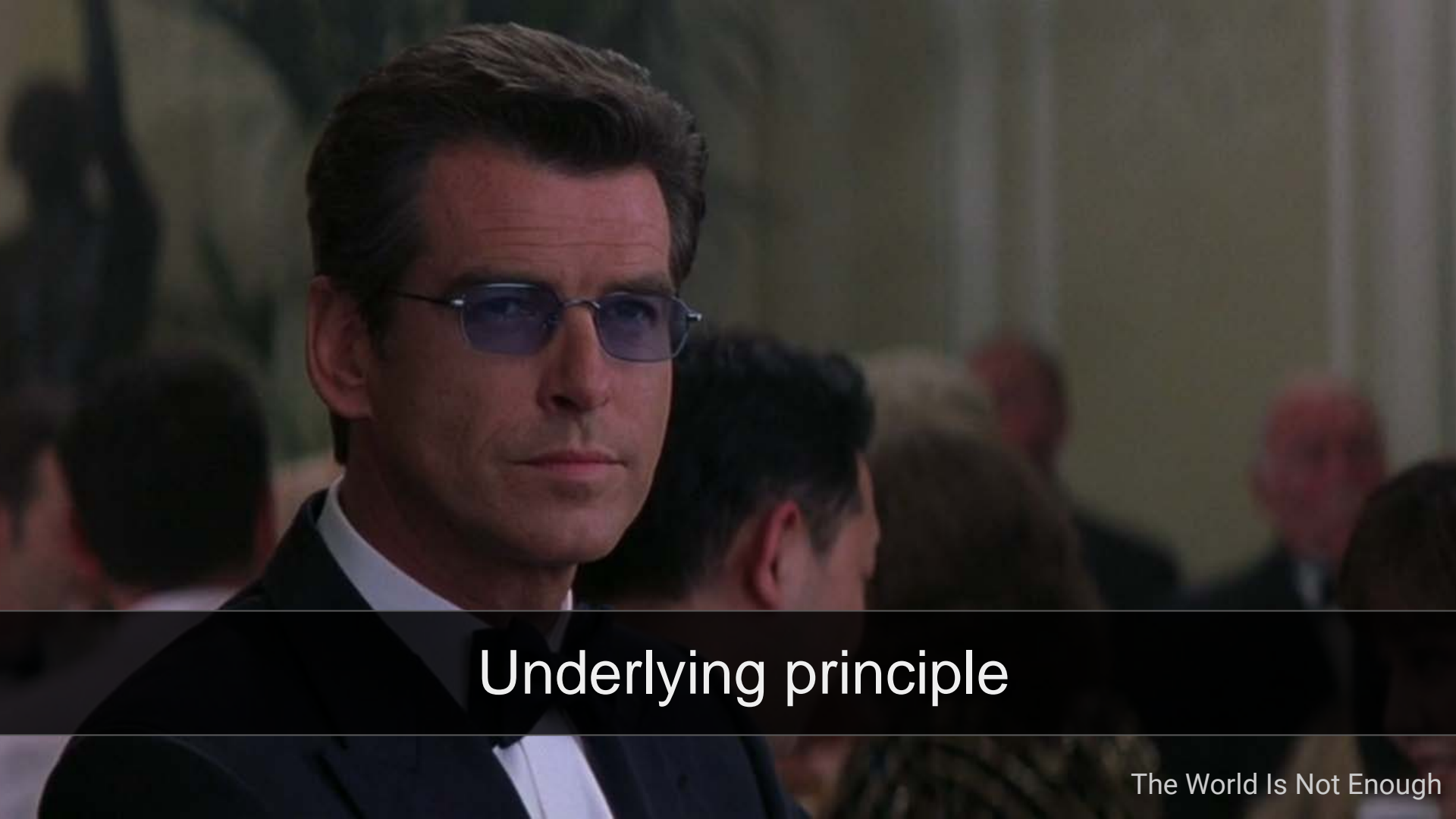
Easy to read as 123 if you know Java :)

Super user password hard coded in string file...

The app has a super user password that allows access on any devices

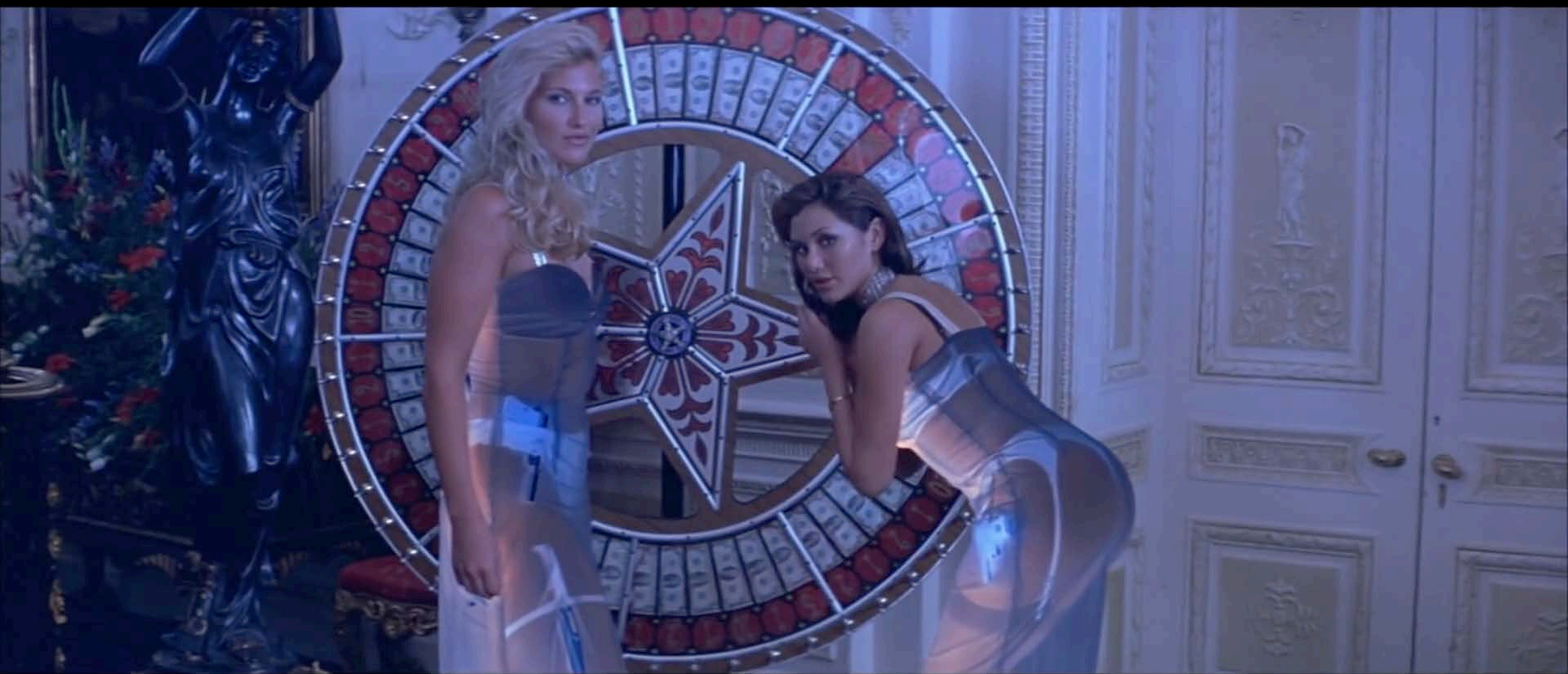
Most of the interesting features are in a kernel module

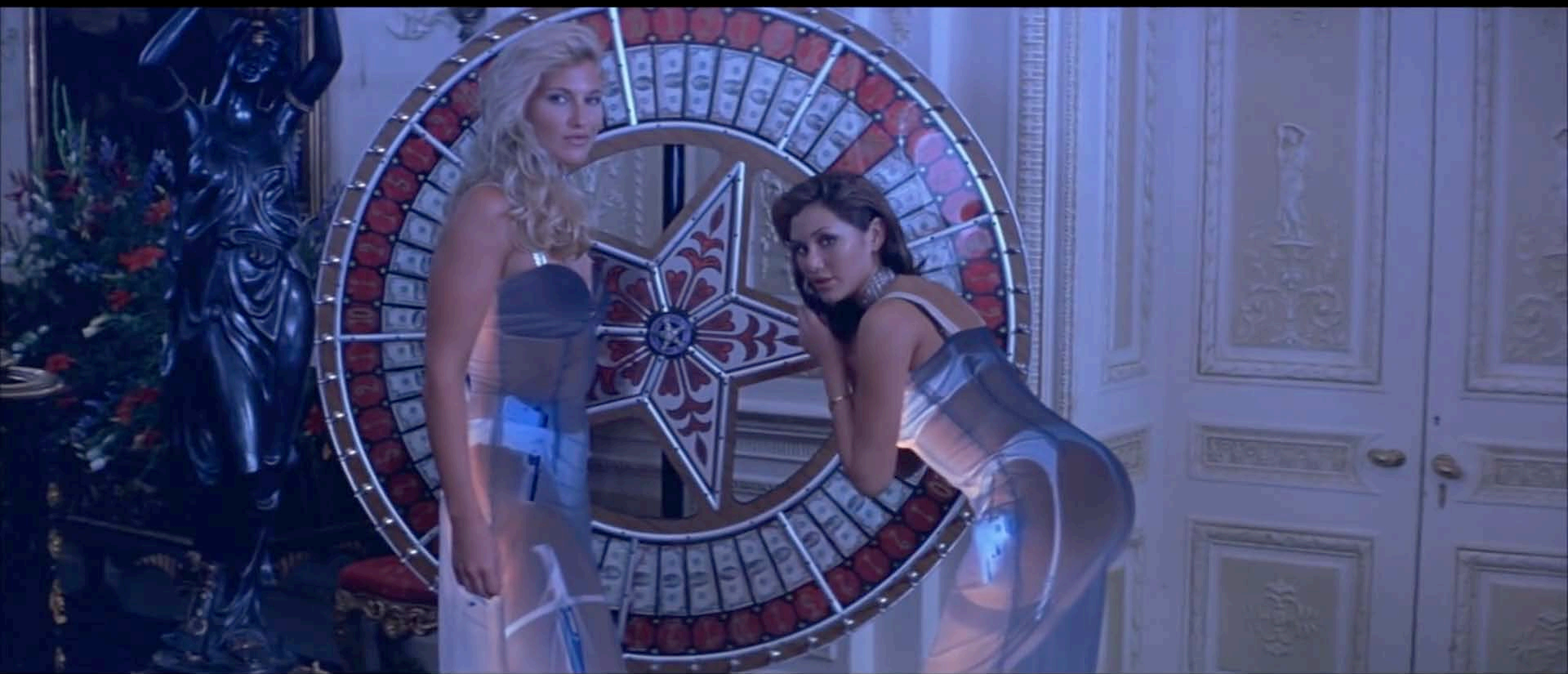
Remote devices control and cards recognition handled by a kernel module

A close-up shot of a man with short, dark hair, wearing a dark tuxedo jacket, a white dress shirt, and a dark bow tie. He is also wearing thin, dark-rimmed glasses. He has a serious, somewhat somber expression and is looking slightly to his right. The background is out of focus, showing other people in formal attire, suggesting a social event or a party.

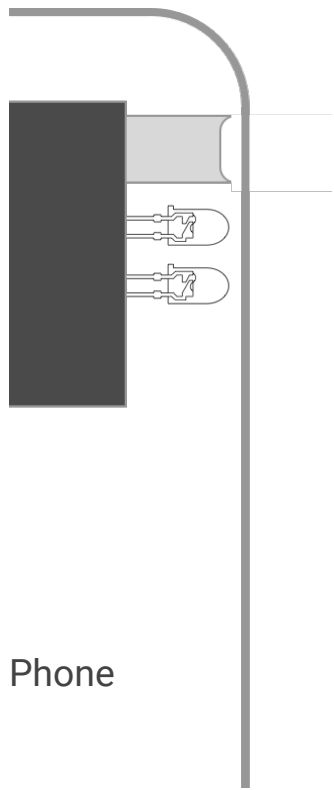
Underlying principle

The World Is Not Enough

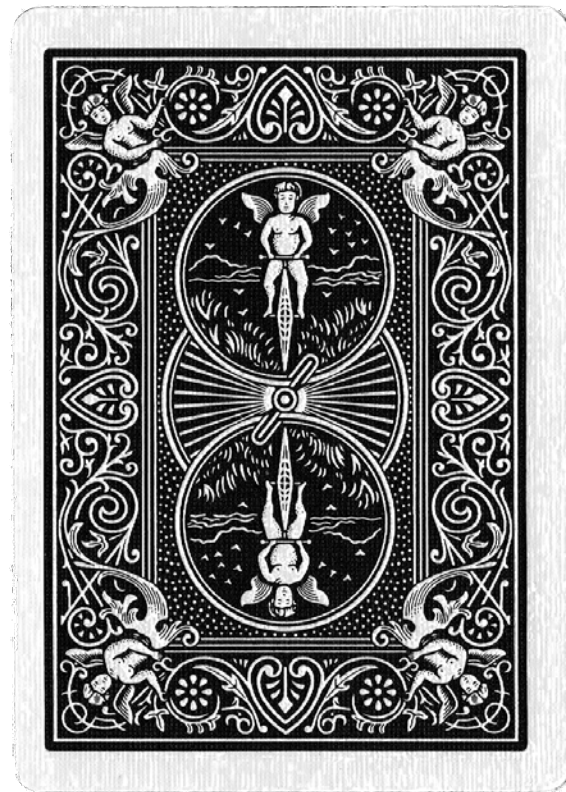


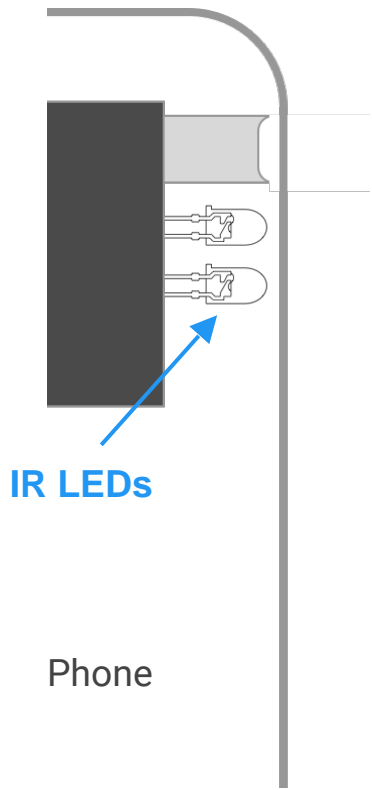


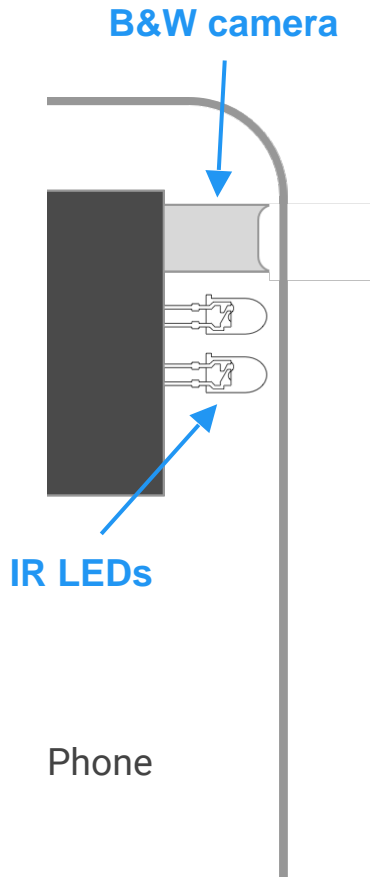


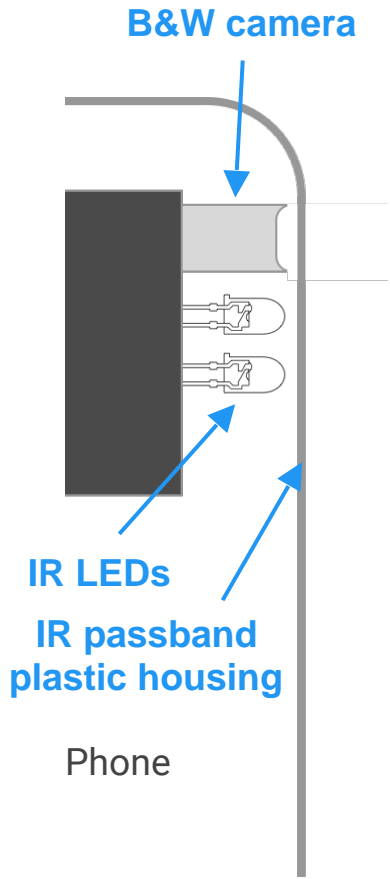


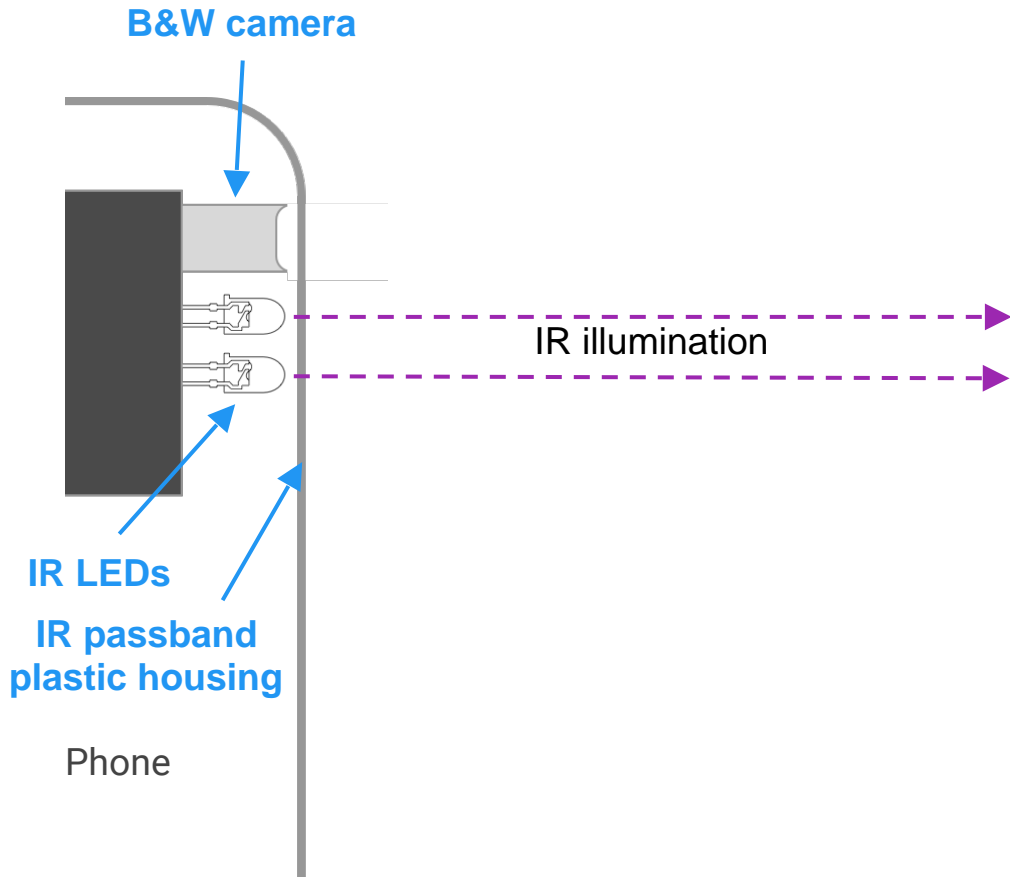
Phone

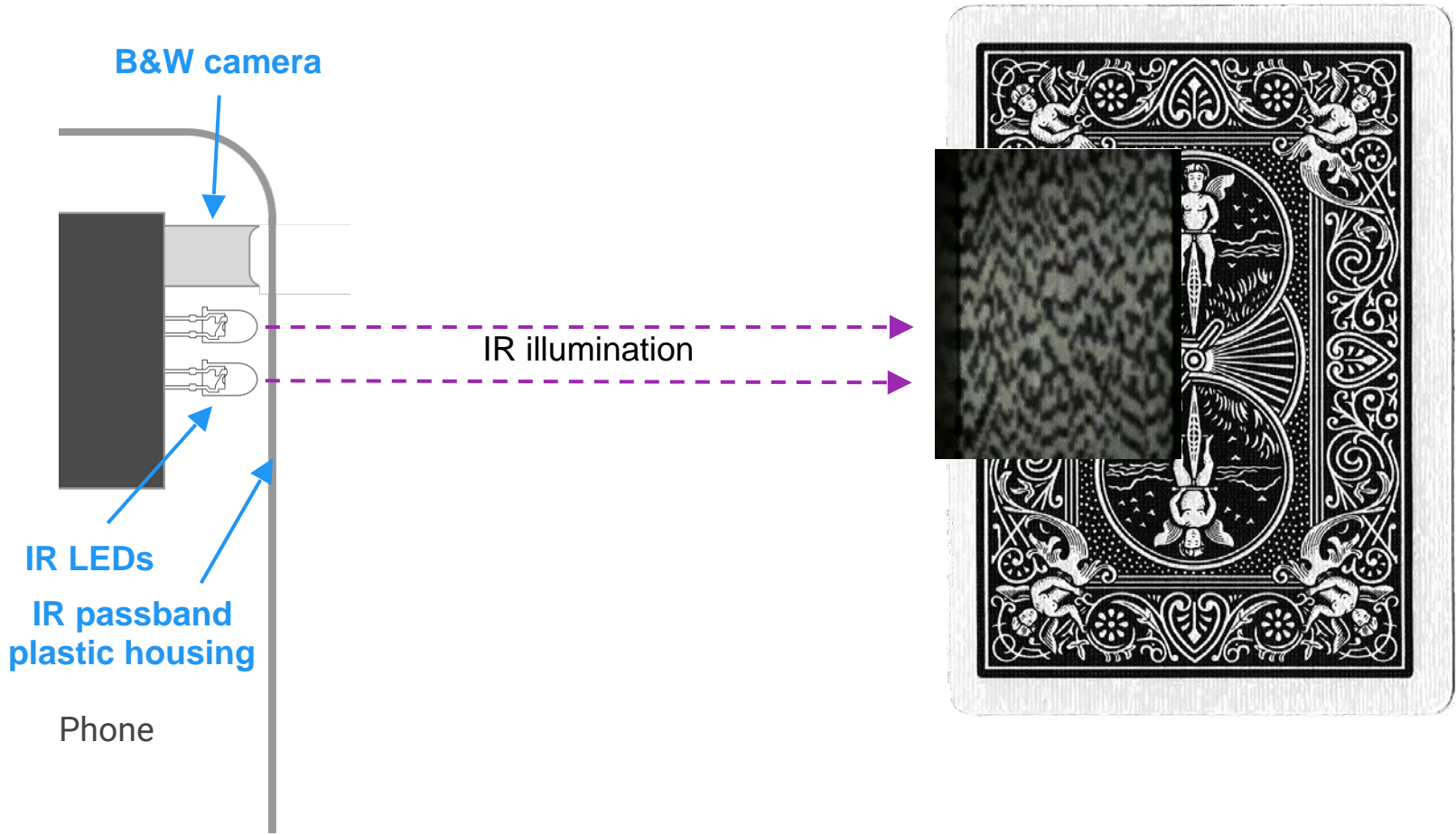


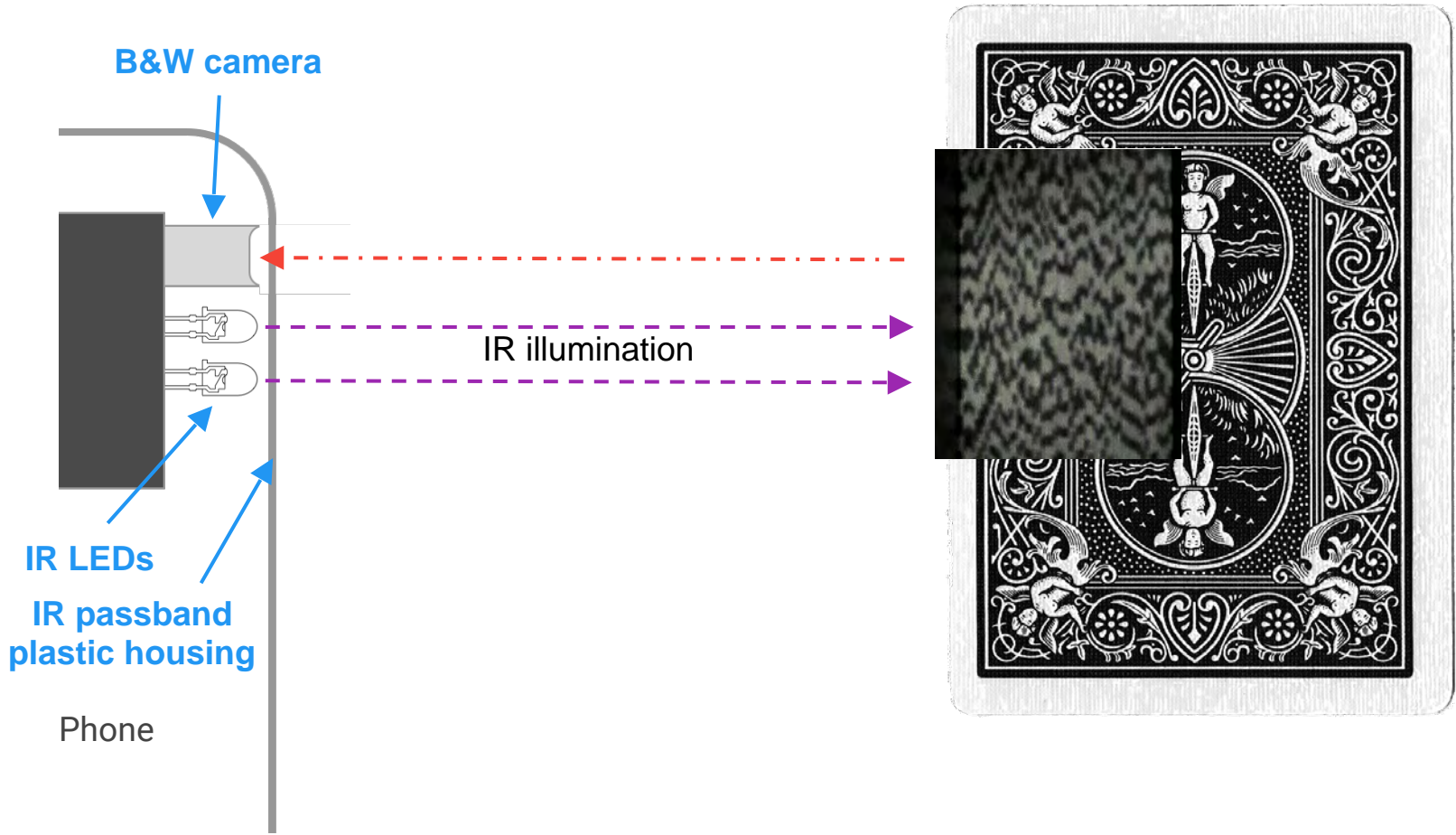




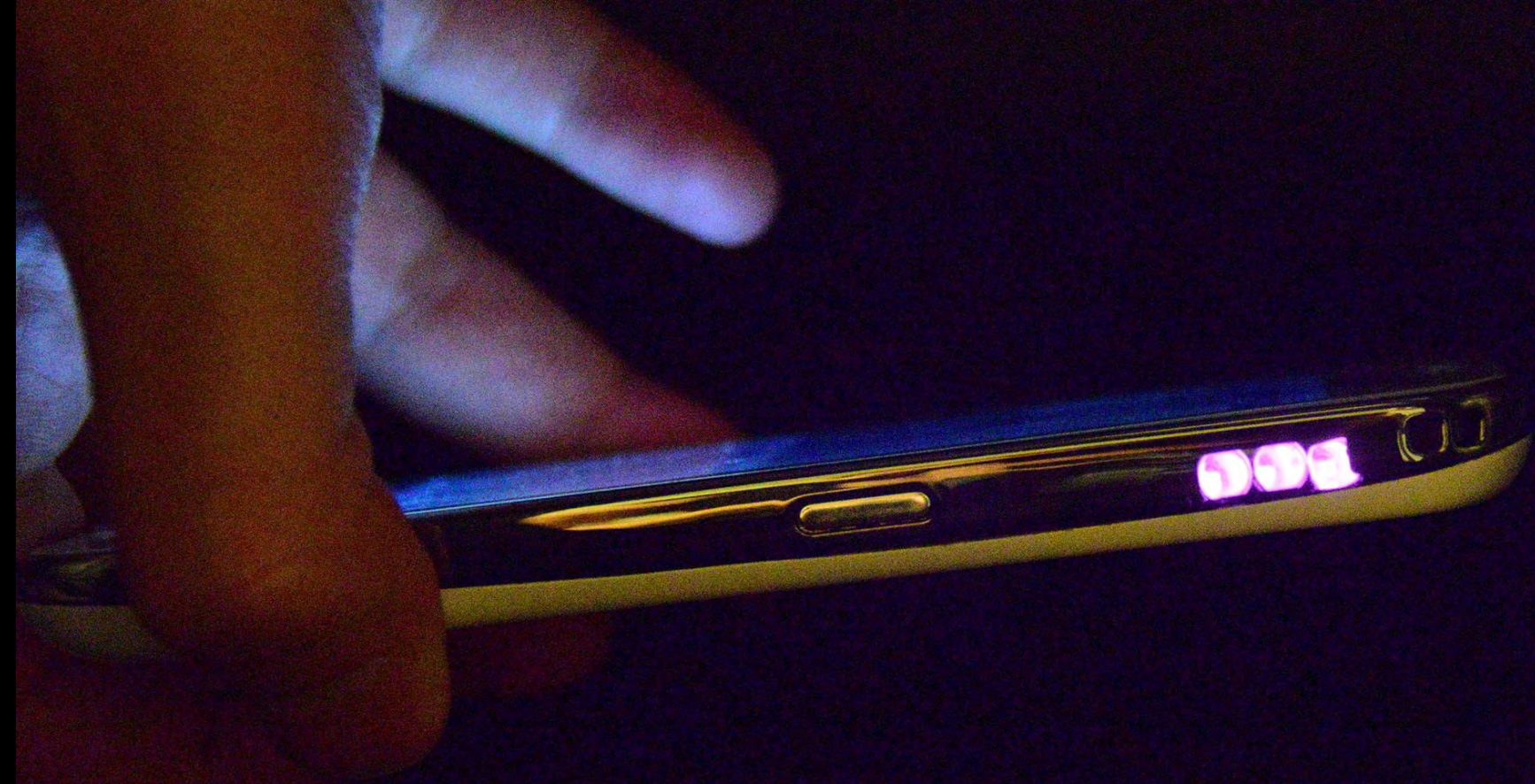










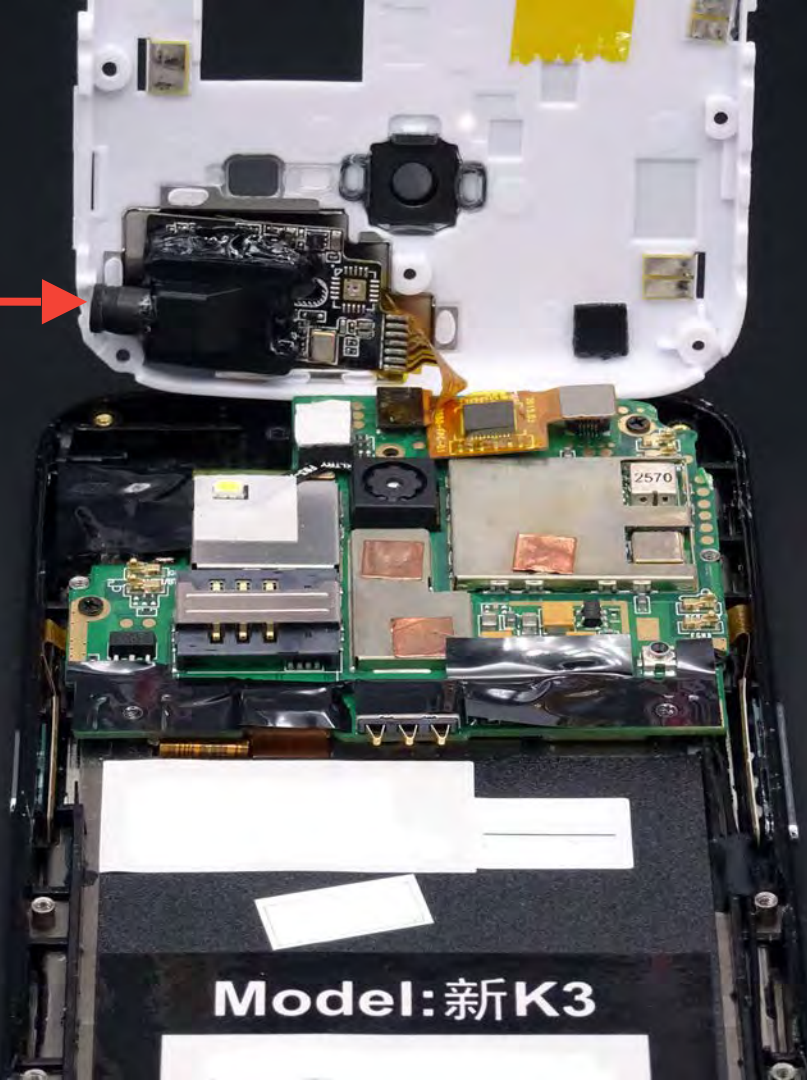






Model: 新K3

Camera

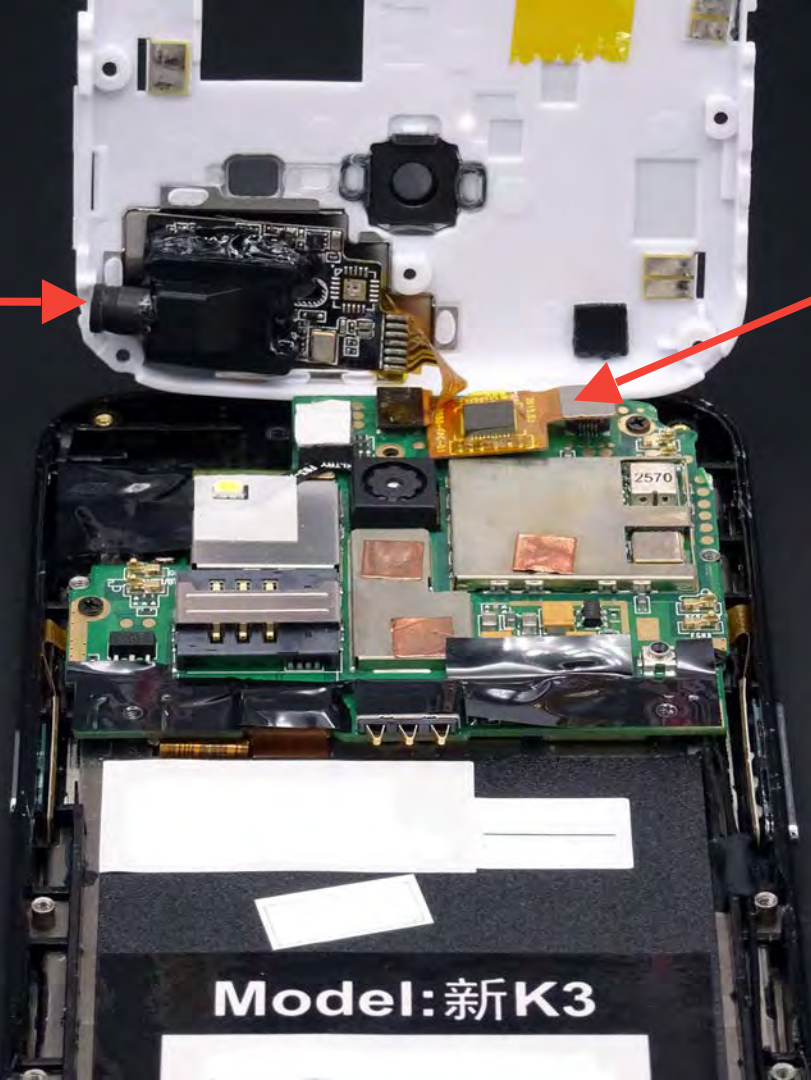


Model: 新K3

Camera



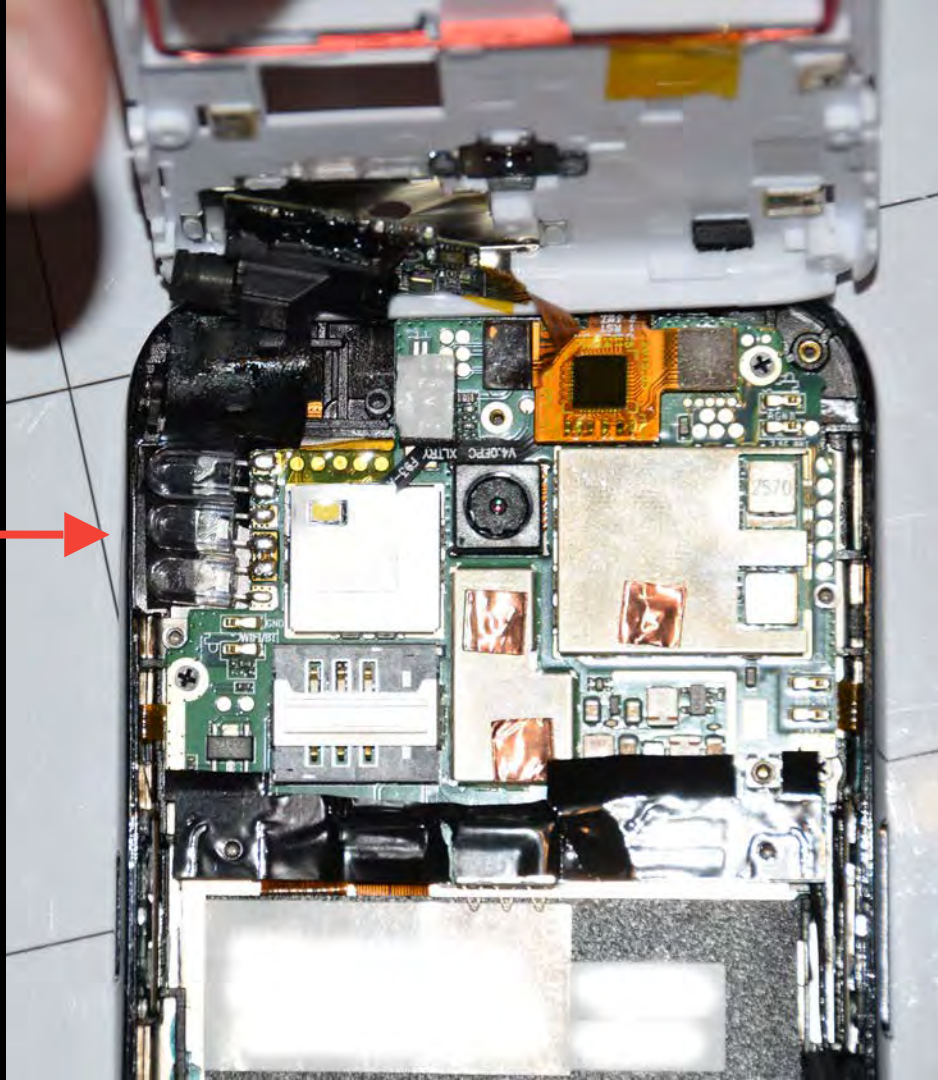
Custom chip



Model: 新K3



LEDS



LEDS



RF
Bluetooth
antenna





Cards marking

COME TO PLAY™  BICYCLECARDS.COM

THE
U.S. PLAYING
CARD COMPANY



EVERY TIME YOU OPEN A FRESH DECK OF BICYCLE® PLAYING CARDS, YOU ARE HANDLING 125 YEARS OF EXPERTISE. WE PROUDLY CRAFT EACH DECK USING CUSTOM PAPER AND COATINGS, SO YOU CAN TRUST BICYCLE PERFORMANCE HAND AFTER HAND.

STANDARD SIZE STANDARD FACE





T-042

STANDARD SIZE STANDARD FACE

6 50800 49882 0

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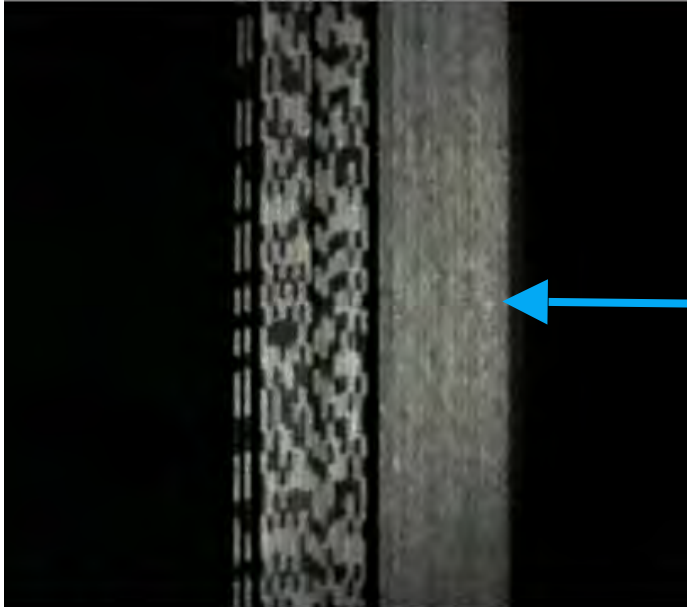


Marked cards vs regular cards



Device camera view

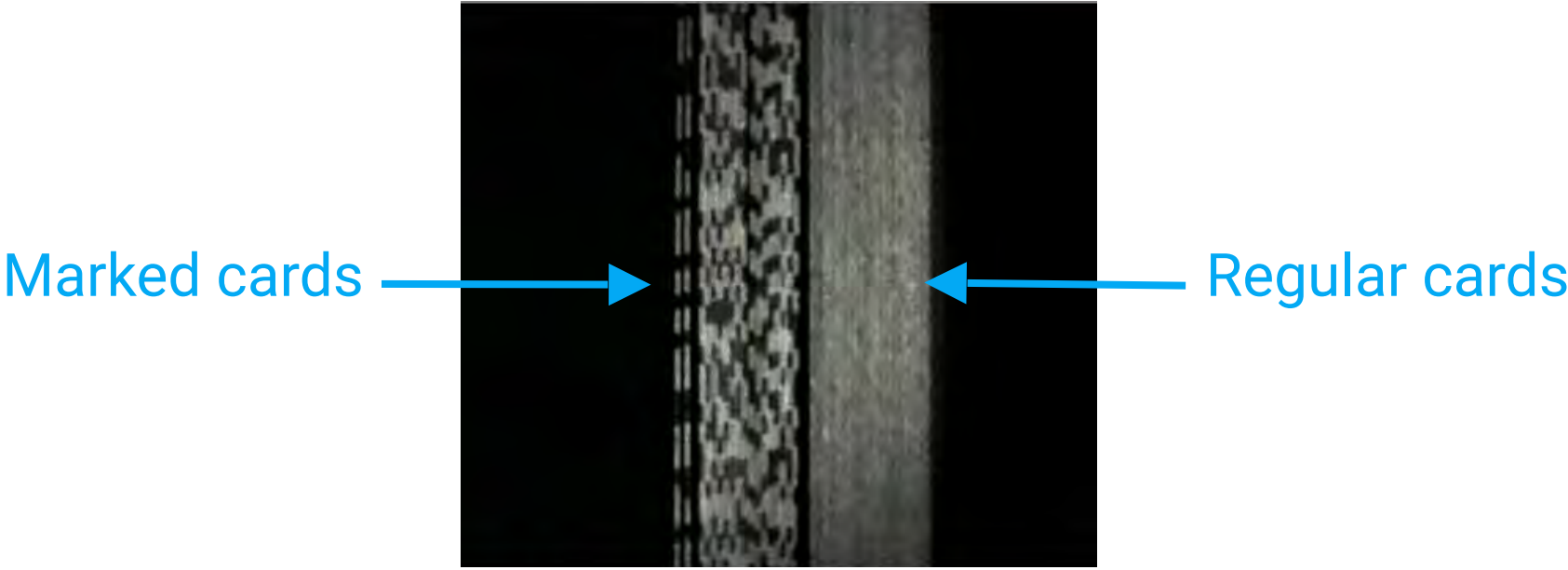
Marked cards vs regular cards



Regular cards

Device camera view

Marked cards vs regular cards



Device camera view

Card encoding

6 H



6 C



6 D



5 D



5 H

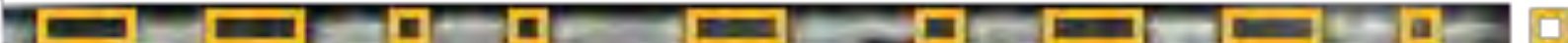


Card encoding

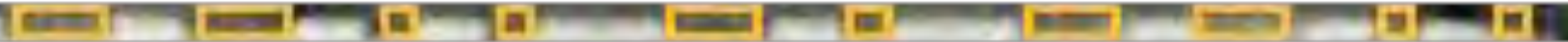
6 H



6 C



6 D



5 D



5 H



Card encoding

6 H



6 C



6 D



5 D



5 H



```

public static String GetSpeakCardStr(int number) {
    String str = "";
    int type = number / 1000;
    int idx = number % 1000;
    int sType = idx / 100;
    int sidx = idx % 100;
    if (type == m_SpeakNoneType) {
        if (sType >= 1 && sType <= 4) {
            str = (str + GetCardTypeStrEn(sType)) + GetCardNameStr(sidx);
        } else if (sType == 5) {
            str = str + GetCardNameStr(sidx);
        }
        return str;
    } else if (type == m_SpeakCardType) {
        return "" + idx;
    } else {
        if (type == m_SpecialCardType) {
            return str;
        }
        if (IsSpecialSound(number)) {
            return str + GetSpecialSoundText(number);
        }
        if (type >= 1 && type <= 6) {
            str = str + GetCardTypeStrEn(type);
        }
        if (idx >= 0 && idx <= 19) {
            str = str + GetCardNameStr(idx);
        }
        return str;
    }
}
}

```



Feedback devices



Number of players

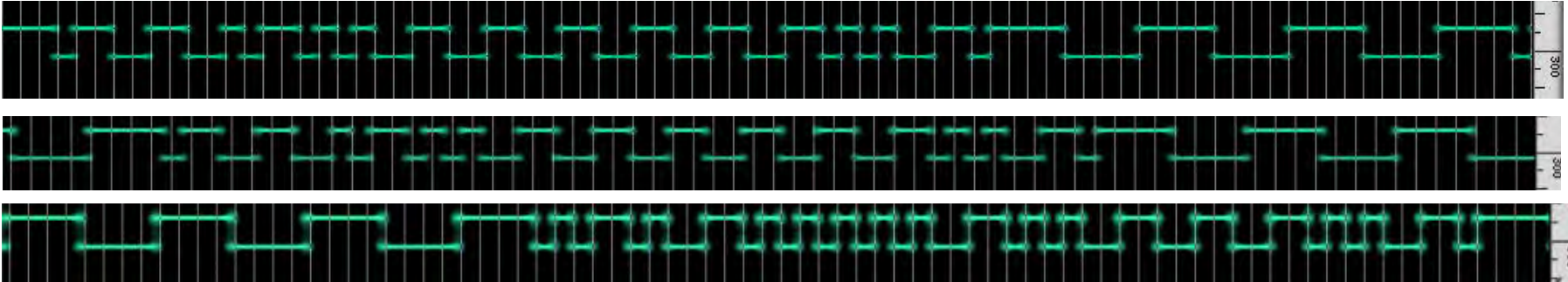




Number of players

Sound on/off

Intercepting radio-command



2-FSK modulation

Center frequency: 868.289 MHz
Data rate: 2400bps
Measured $\Delta f = 19\text{kHz}$

people :

Count: 0

Report Type: N1

Report Define: F1

Speaker

Headset

Video Selection: Wireless ca...

Rules of the game : Description of the Game Rule



Menu

Start

Back

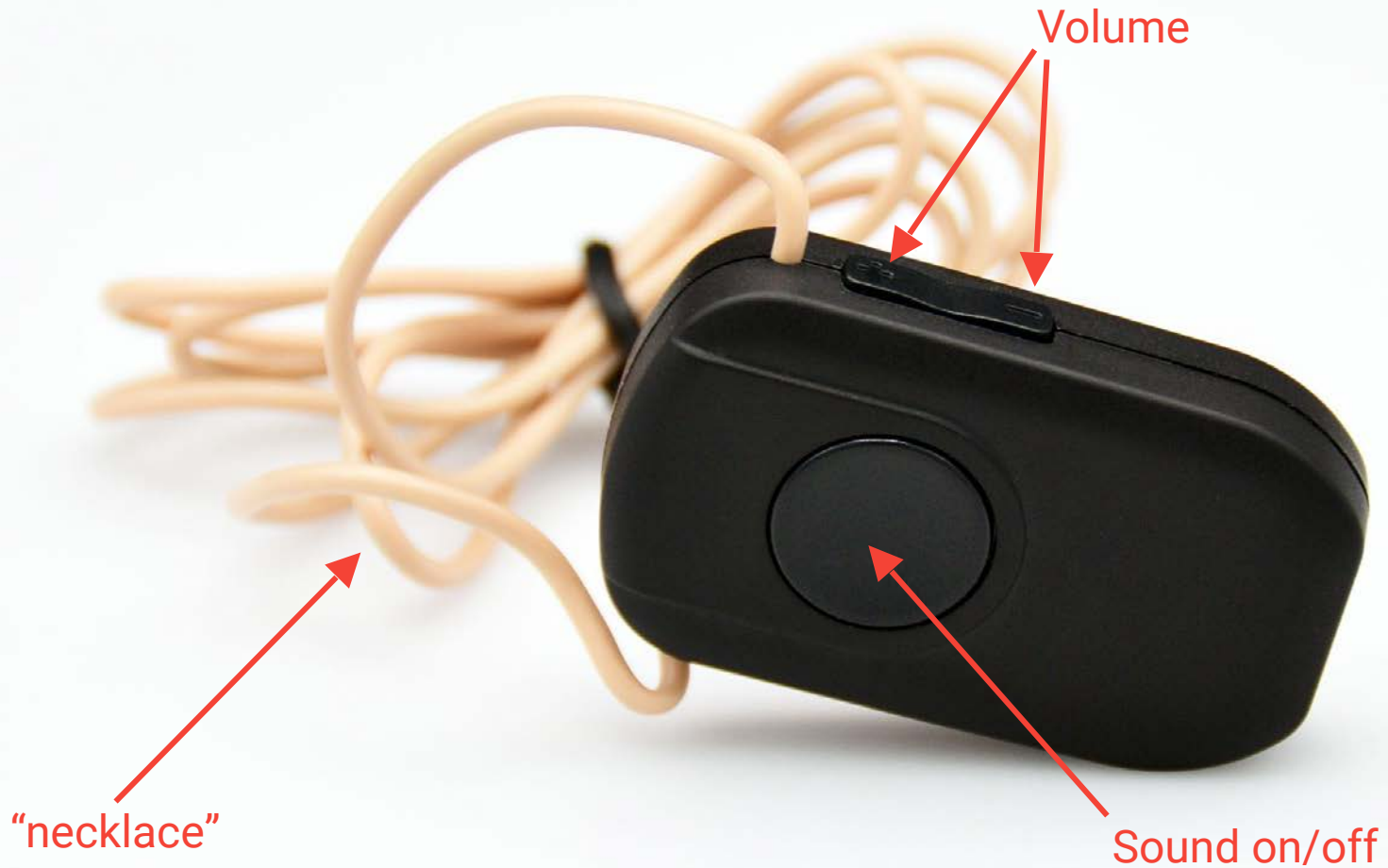






Volume

Sound on/off





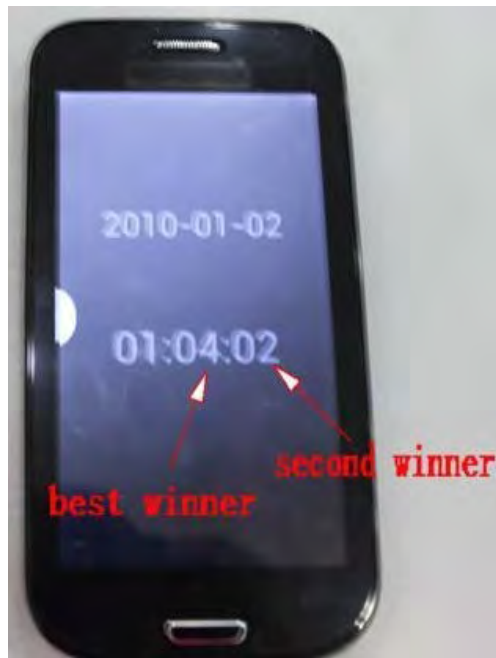


“Mini vibrators”



Bluetooth P4 receiver

Sneaky time display





Wireless camera

Game settings

- people :
- Count: 0 ▼
- Report Type: N1 ▼
- Report Define: F1 ▼

Wireless camera

Local camera

- Video Selection: Wireless ca... ▼
- Rules of the game : Description of the Game Rule



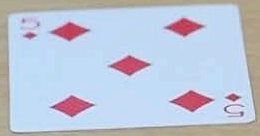
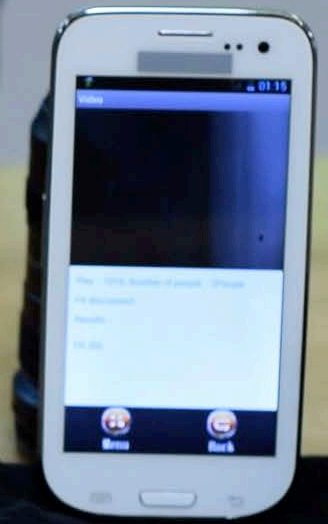
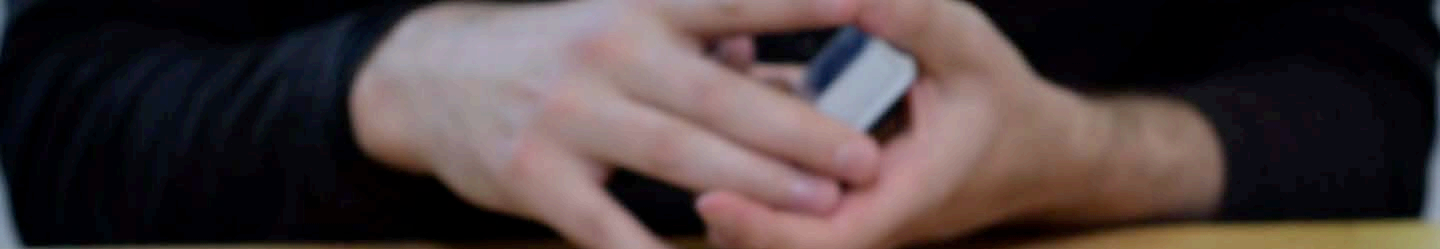
Menu Start Back

遥控器中的巅峰之作

PK王 专业镜头 钥匙遥控器

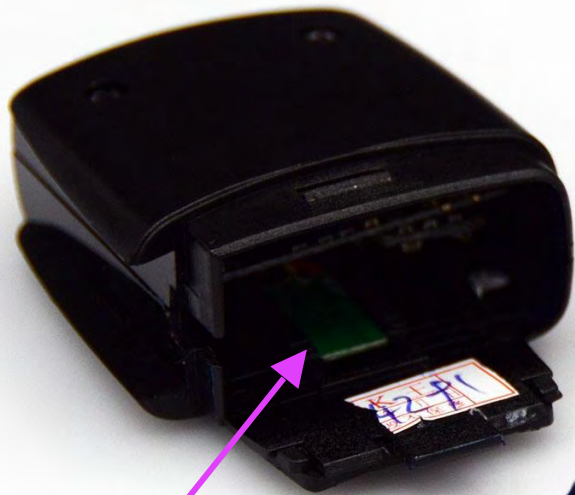




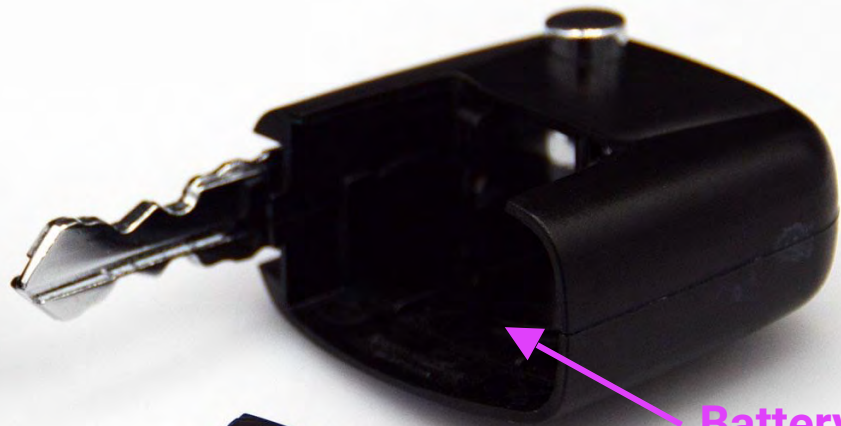








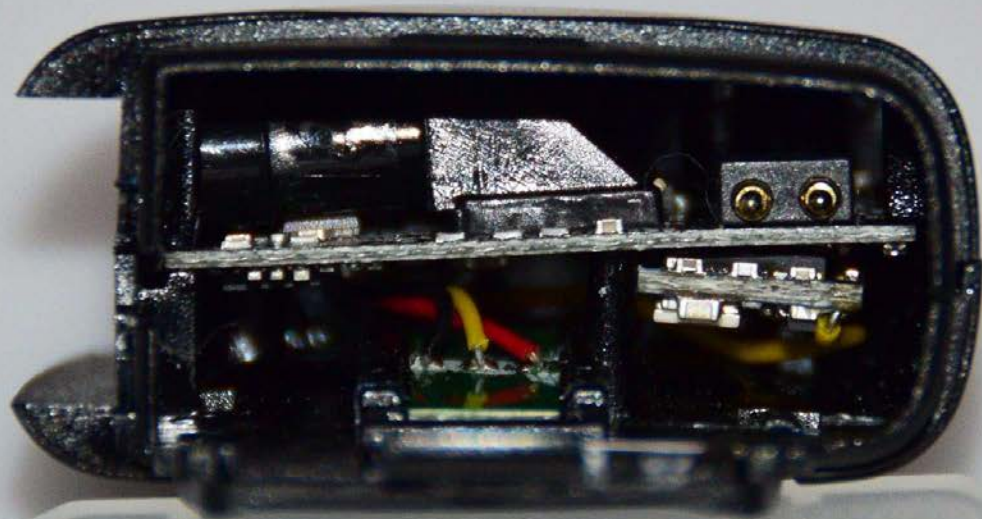
**Hidden
Wireless camera**

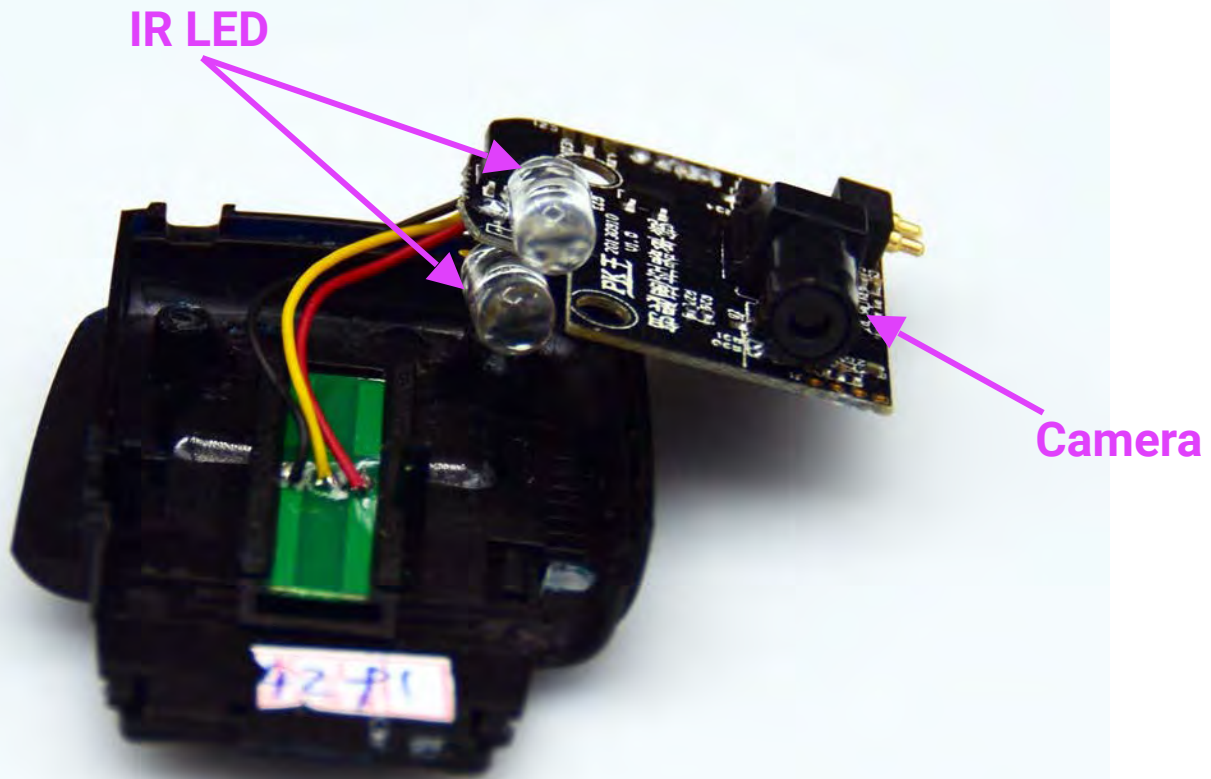


**Battery
housing**



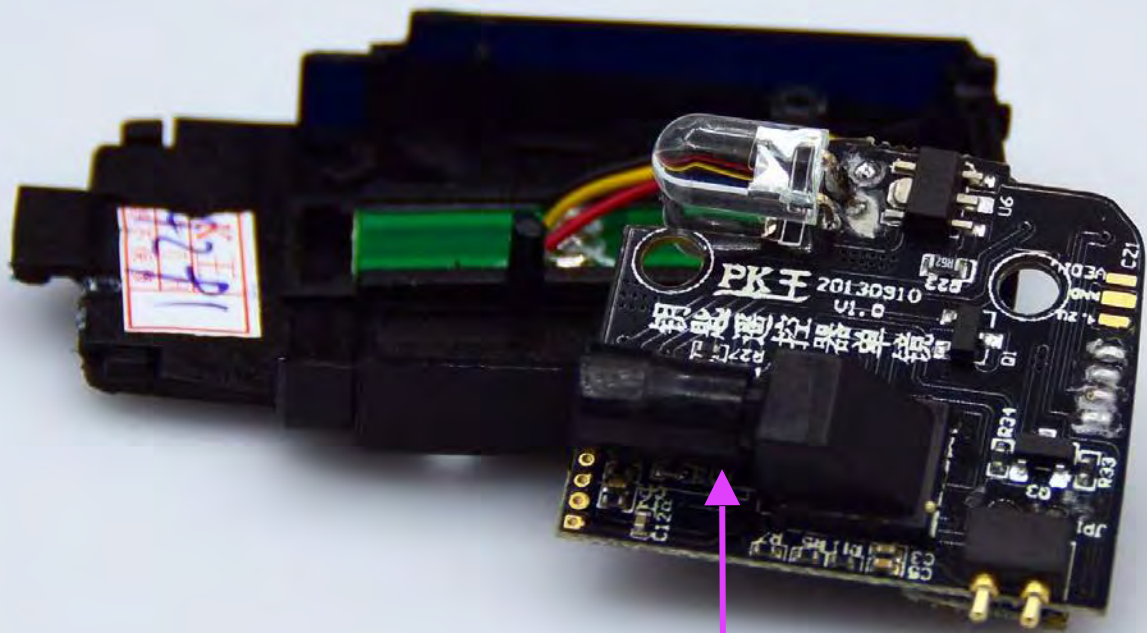
Battery



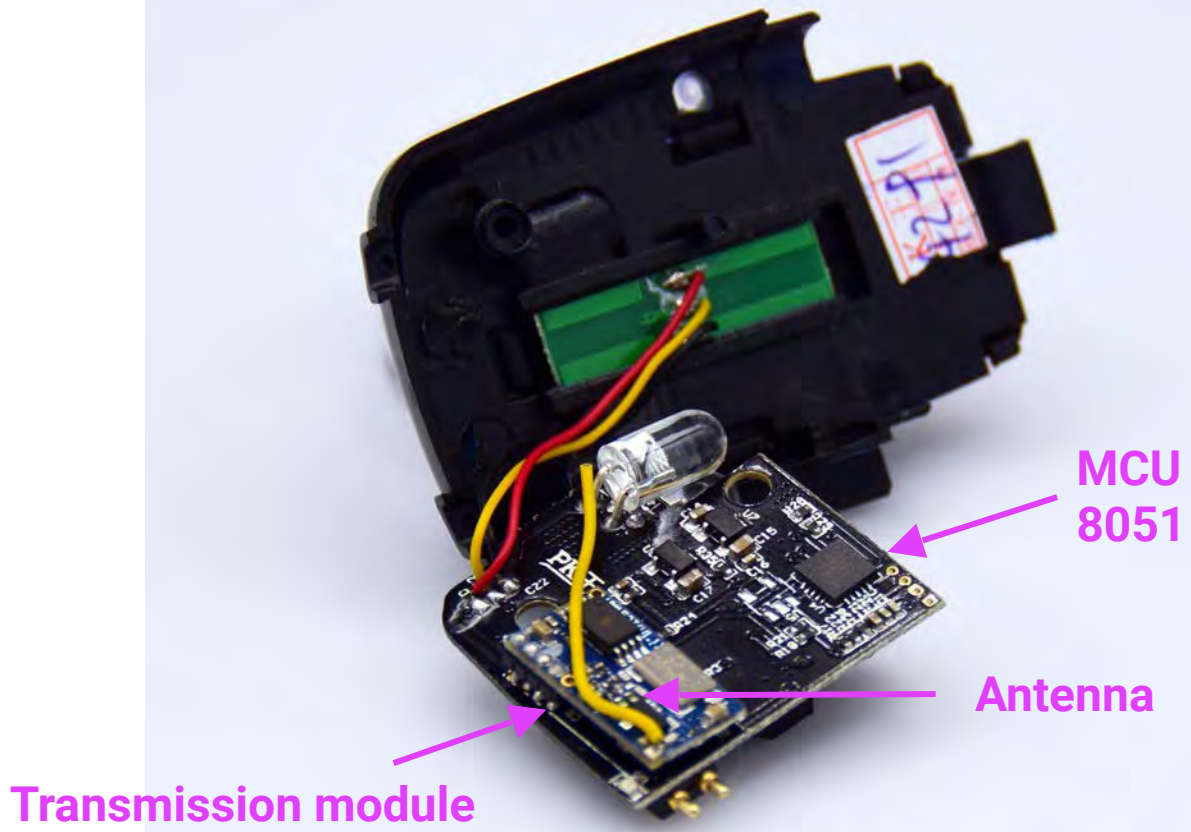


IR LED

Camera



Camera



MCU
8051

Antenna

Transmission module

Transmission module VM152T



传输频道频率 (transmission frequency group) :

CH1:2370MHz CH2:2570MHz

1.3 调制类型 (Modulation type) : FM

2 结构规格书 (Mechanical Specification)

VM152T Please refer to Figure 1.

3 环境条件 (Environmental Specification)

3.1 工作温度 (Temperature) -10°C ~ +60°C

4 测试条件 (Test Condition)

4.1 周边环境温度 (Ambient temperature) : 25°C

4.2 视频输入电压 (Video input voltage) : 1.0Vp-p,150 (IRE)

电源电压 (Supply Voltage) 3.3 5V 5.5 VDC

2 电流(Current Consumption) 95 105 mA

5.2 视频特性 (Video Characteristics)

1 输入阻抗 (Input Impedance) 75 Ω

2 峰值频偏 (Peak Deviation) 1.2 MHz

调制源(MOD):

正弦波(sine wave)

400KHz 1Vp-p

5.4 RF输出特性 (Output Characteristic)

1 发射功率(Tx Power) 16 17 18 dBm

CH1 : 2.370GHz 0 1

CH2 : 2.468GHz 1 0

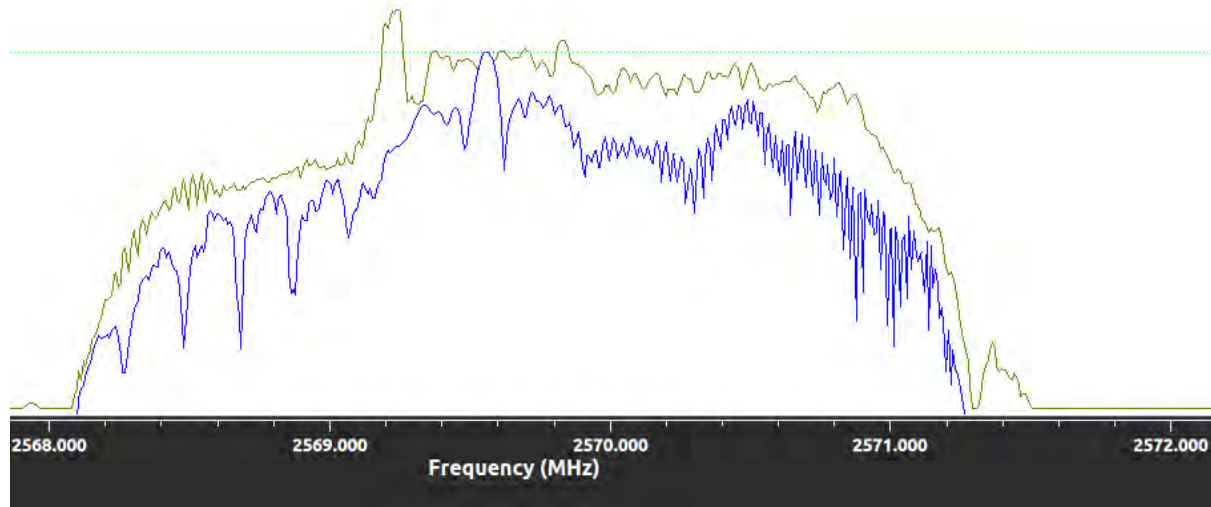
CH3 : 2570GHz 1 1

CH4 : 2670GHz 0 0

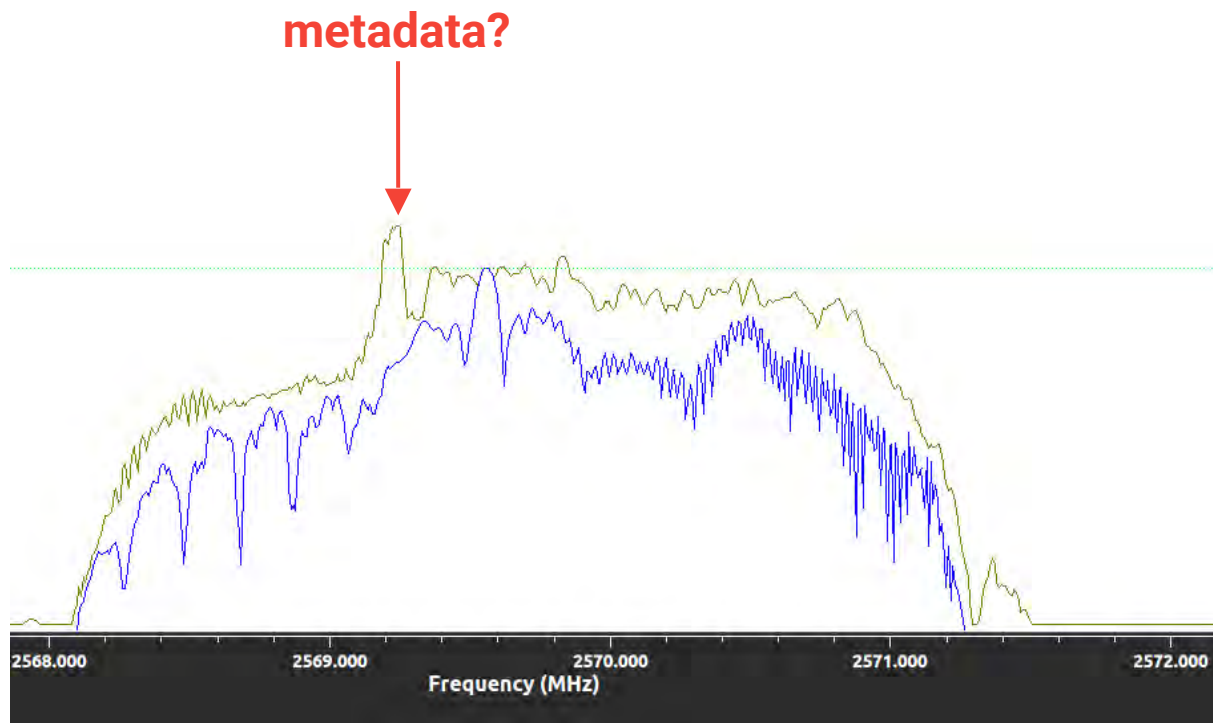
体积 15*8.3



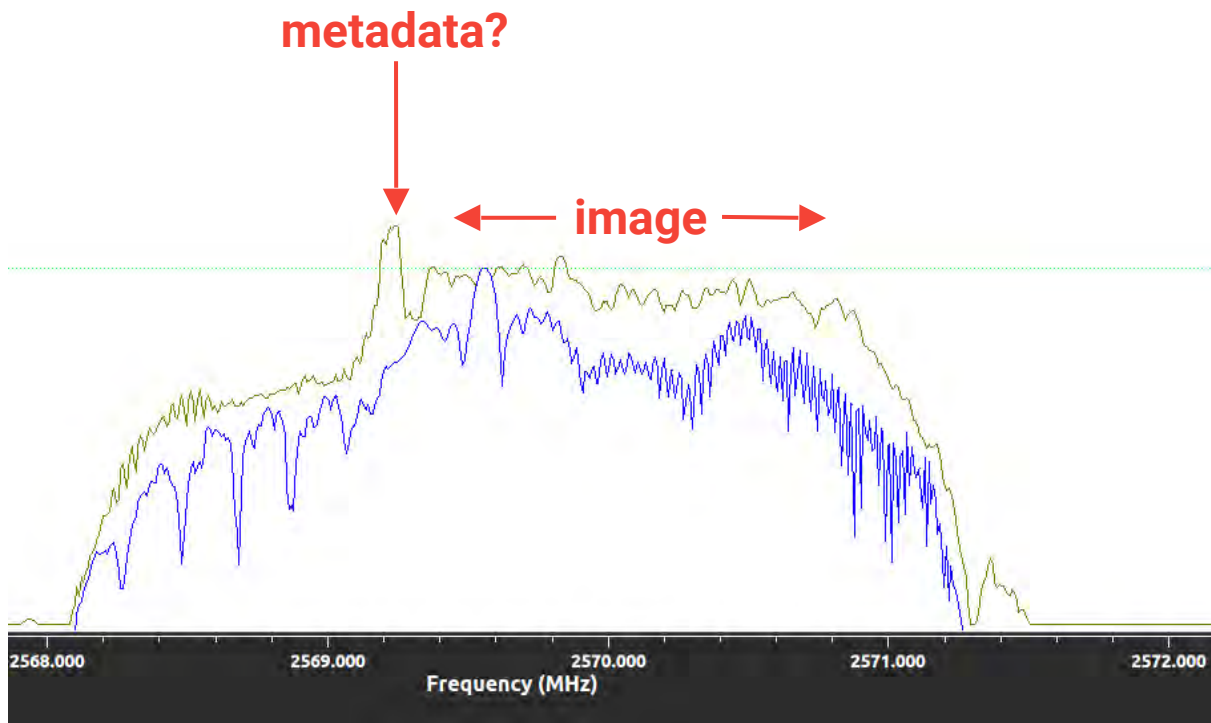
Transmission analysis



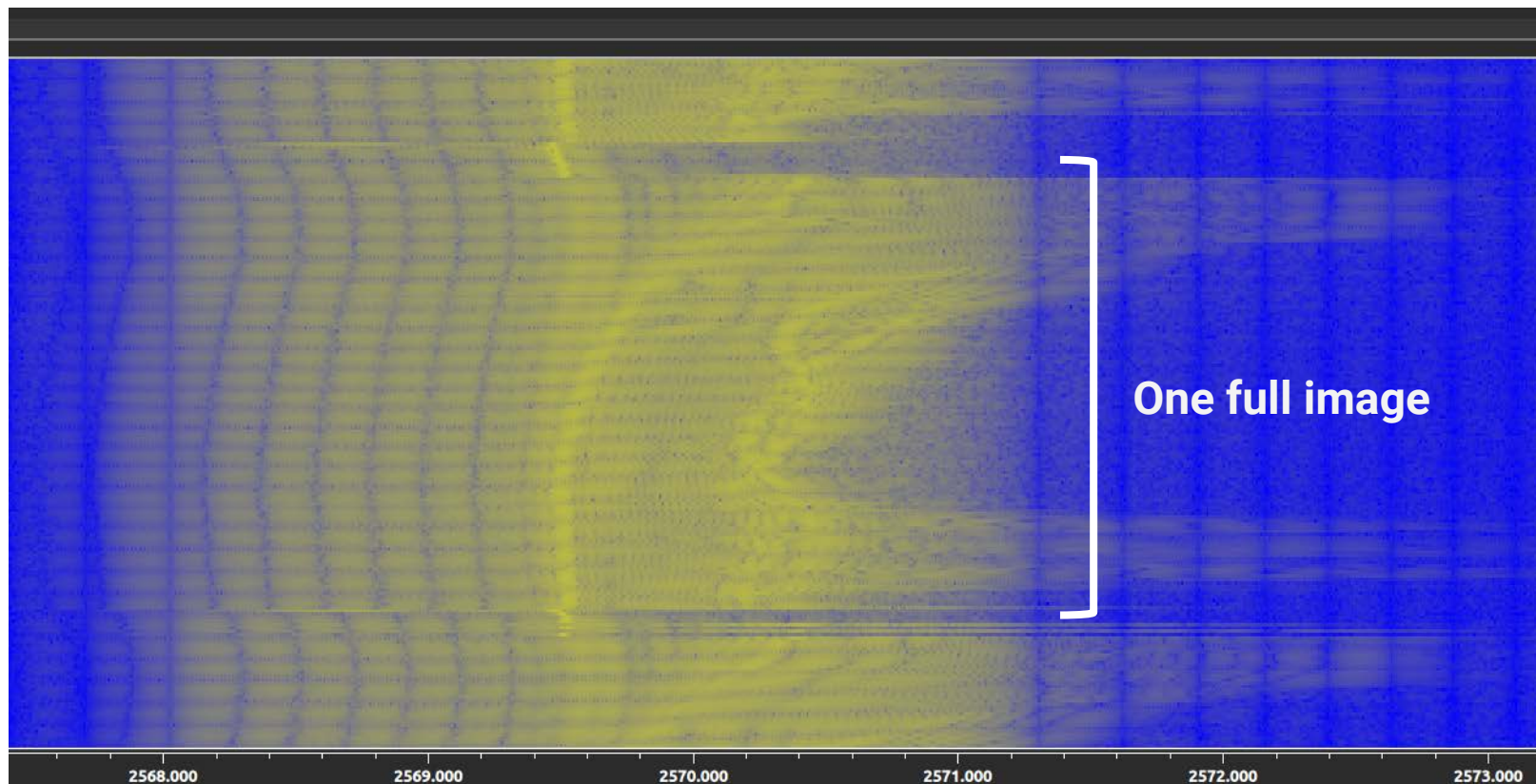
Transmission analysis



Transmission analysis



Transmission analysis





Open questions

Who created such device? Casinos?

Level of sophistication means either stolen tech or large underground market

Who is ripping who?

Where is this thing actively used? Need detection means and field study!

Where is the ink is coming from?

You can't buy it easily - only for secure marking of docs

Takeway

James Bond devices exist!

They are hard to find but reality match fiction

Crimeware can be super sophisticated

While NSA have cool tools, the crime mob does too!

A very diverse skillset is required to tackle this type of device infiltration, hardware analysis, software analysis, RF analysis, Vision Alg.

Co-conspirators



Pixel: Hardware specialist

Vivi: Chinese blackmarket infiltration expert

The background features a complex, abstract pattern of thick, black, curved lines that swirl and overlap, creating a sense of depth and movement. The lines vary in thickness and curvature, some appearing as simple arcs while others form more intricate, nested shapes. The overall effect is reminiscent of a stylized, high-contrast graphic design.

Thanks!