

Han Wang Technology Co., Ltd.





HanWang Core Technologies

Partners and Cooperation





Headquarters: Beijing, China Constructive Area: 23,000sqm

- Founded in 1998
 Over 600 employees in total
 The leading intelligent recognition solution provider in the world
- Han Wang's core technologies:
 ---Pattern recognition technology
 ---Intelligent hardware devices



Honors

➢ The 1st Prize for National Science & Technology Progress Award

Awarded as a National Key Hi-tech Enterprise

≻Awarded the Gold Medal at the World Exhibition of New Thoughts, New Innovations and New Products in Germany

➢ Hanwang On-line Handwriting Recognition Software has been awarded as one of the National Top Ten Innovation Software Products

>The 2nd Prize for Beijing Technological Progress Award

≻The 1st Prize for National Chinese HWR Evaluation Competition



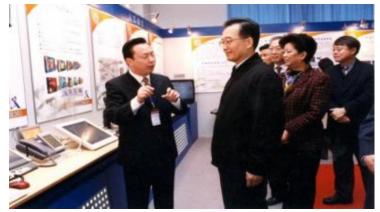


Presidents and Prime ministers of P.R. China visited HanWang











Hanwang Manufacture Co., Ltd.

- Wholly-owned by Hanwang technology
- Established in 1998
- Address: Hebei Province, China
- Over 700 employees
- Area: 21.4 acres
- ISO9001/ISO14001/OHSAS18001
- The largest pen tablet factory in the world
- The second largest e-book reader manufacturer worldwide
- Annual capacity: more than 1 million pieces of pen tablets





Factory Overview





Core technologies:

- --Pattern recognition technology
 - Handwriting recognition, OCR, Face recognition...etc.
- --Intelligent hardware technology
 - Handwriting tablet, Scanning Pen, Drawing tablet, E-book...etc.



HanWang Products



Drawing tablets



HanWang Products





Face ID



HanWang Eyes



HanWang Products



N516



N800





N518



T61



D20& D21





HanWang Core Technology

Hanwang core technology--Pattern recognition technology

Handwriting recognition technology
 OCR Technology
 Face recognition
 Electromagnetic Module



HanWang Core echnology

Overview Of

Handwriting recognition technology



Overview of HWR

> Support all the commonly-used OS, CPU.

(1) OS supported

Android, iOS, Blackberry, Windows, WinCE 7.0 for Automotive, QNX, Vxworks, Symbian, Linux, etc.

(2) CPU supported

ARM 7, ARM 9, ARM 11, MIPS/MIPS II ,PowerPC, FreeScale (i.MX53, i.MX61), SuperH (SH-2, SH-4), Atom, X86 Series, Xscale, etc.

High Recognition accuracy for HWR

Chinese HWR engine: above 99%* Latin HWR engine: above 98%*

High Recognition speed for HWR Chinese HWR engine :above 20 characters/second (CPU:600 MHz) Latin HWR engine: above 10 words/second (CPU:600 MHz)

* Based on Hanwang internal test for printed handwriting style.



Overview of HWR

Support super-large character set (Chinese)

GB2312-1980:6,763charsBIG5+HKSCS-2001:17,442charsGBK:21,003charsGB18030-2000:27,533chars

Multi-languages recognition :about 70 languages

Simplified Chinese, Traditional Chinese, Thai, Japanese, Korean, Vietnamese, Persian, Arabic, English, French, German, Italian, Dutch, Luxembourg, Danish, Norwegian, Irish, Portuguese, Spanish, Swedish, Finnish, Polish, Hungarian, Czech, Slovakian, Slovenian, Estonian, Romanian, Croatian, Latvian, Lithuanian, Turkish, Maltese, Russian, Ukrainian, Belarusian, Bulgarian, Greek, Indonesian, Malaysian, Pilipino, Hindi, Urdu, Bengali, Telugu, Andorra, Austria, Belgium, Bosnia, Canada, Croatia, Gibraltar, Liechtenstein, Moldavia, Vatican City, Switzerland, San Marino, Monaco



Overview of HWR

Multi-Languages supported





HanWang Handwriting Recognition Product

WriteTM—Handwriting recognition engine (SDK)

UltraWriteTM -- Handwriting recognition software (IME)





Standard edition ----UWriteTM Letter

Professional edition

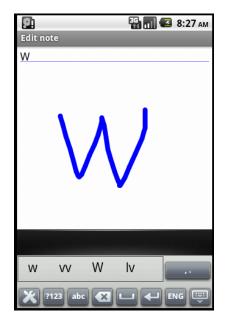
----UWriteTM Cursive & FreestylusTM

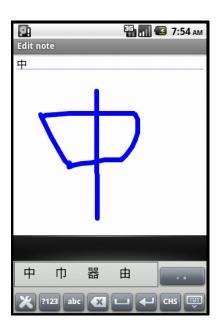


UWrite Letter is for character-based recognition.

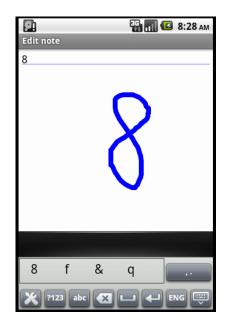
English







Number





Professional Edition

UWrite Cursive is for word-based recognition, especially for Latin languages.

English

German







Professional Edition

FreestylusTM is for word-based or short sentence-based recognition. It's for Chinese.

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UltraWriteTM -input method

HanWang can also provide the total input method based on his own UI design.



For Android





For Windows mobile

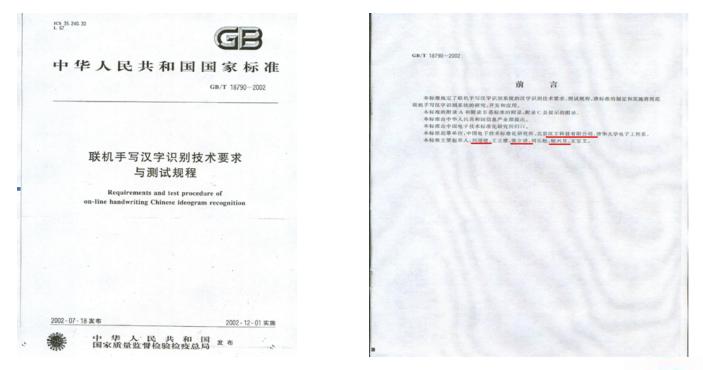




- Rich experiences in working with partners, took part in 1000+ projects.
 PDA, Mobile phone, Tablet, Automotive vehicle... etc.
 Key clients : Samsung, Nokia, RIM, Sony, LG, ZTE, HUAWEI, Canon, Lenovo... etc.
- 2. High Recognition rate and speed & Support all commonly used platforms.
- **3. Excellent after-sale services**, fast feedback and periodical upgrade.
- 4. Support all kinds of Chinese Character sets, including the biggest one: GB18030



5. HanWang, as the affiliate of Chinese Academy of Science, made the National Standard on Handwriting recognition in China --GB/T 18790-2002





Free style handwriting recognition- Totally Understood Chinese people's handwriting habits, support all common and special handwriting ways such as cursive & variant characters. (行草书和异体字)

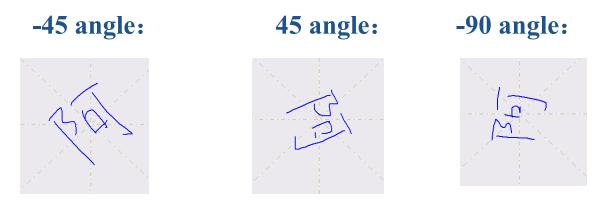
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High recognition accuracy for English cursive word.



Special features HanWang can provide:

Slant character recognition



Support mixed recognition mode







Overlapped handwriting recognition technology







Text input—Keyboard products

Hanwang Keyboard input can support:

Approximately 30 languages in total

English (American English, British English, Canadian English, Australian English, New
Zealand English), German (Germany), German (Switzerland), Filipino, Finnish, French,
Dutch, Indonesian, Ireland, Italian, Malaysian, Bokmal (Norway), Nynorsk (Norway),
Portuguese (Portugal, Brazil), Spanish (Spain) Spanish (Mexico), Swahili, Swedish, Dutch
(South Africa), Albanian, Catalan, Danish

HW Keyboard in Chinese includes: 4 methods

Pinyin Input, Stroke Input, Traditional Bopomofo Input, Traditional Cangjie Input





Text input-Keyboard products

• Text input for Automotive

provides POI tool and implementing the prediction function of POI DB, including letter based auto-completeness, word based auto-completeness. multilevel-based prediction.

预测前缀	预测结果	预测结果
	(通用预测产品)	(车载导航智能预测产品)
北京市	场,民,委,场经济,政府	朝阳区,海淀区,
建外	面,国,贸,资,部,地	大街,SOHO



Text input-Keyboard products

For example, "北京市朝阳区建外SOHO" (beijing chaoyang district jianwai SOHO)





OCR Technology

(Optical Character Recognition)



HW pattern recognition-OCR

OCR are Fully applied in Industries of Banking, Tax administration, Transportation and data processing, etc.

HW Bizcard Reader:

- English and Chinese version
- Japanese and English version
- ➤ 11 European languages version: German, English, Spanish, etc.

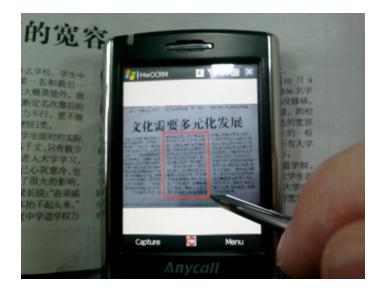








OCR Technology





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Hanwang Technology Co. Ltd., for company of China in the fields of manufacture of diverse intelligent pattern products. We are headquartered in Beijin employees, hosted in a 23,000-square met

In recent years, Hanwang has been software companies in China, and also been software company of the country. Followin we have set up a competitive system th design and research network, purchar network, sales and service network. Too manufacture computer forward/desired

[competitive]		-
competitive adj.竞争的,比赛的		
Our prices are competitive.		┡
我们的价格是有竞争性的。		•
拍摄 🔘	菜单	

OCR- Extract product

OCR- Translater product

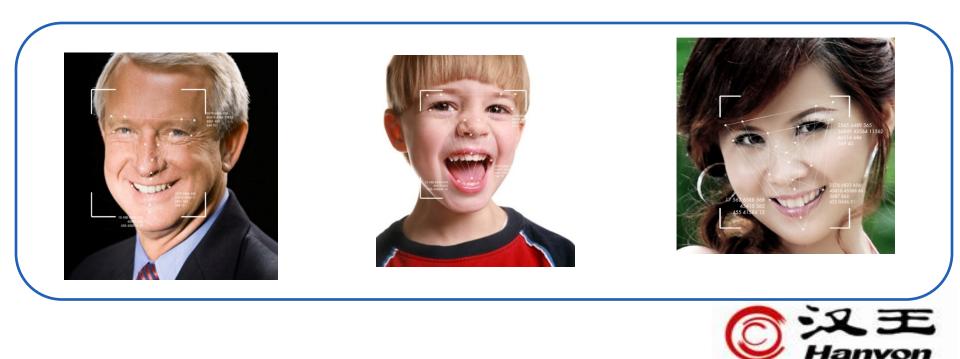


OCR-ID recognition products

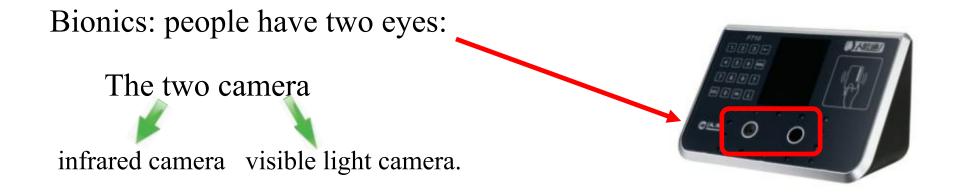


lanvon

Facial recognition



Face recognition



We are developing the face recognition technology in mobile devices , automobile for personal identification .







Face recognition

- 80000 units has been installed worldwide since face id released in 2009. (Middle-high level security market)
- Replacing RFID and Fingerprint





Face ID Products Introduction

Product orientation



Application

〇 え王 Hanvon

Facial Recognition Technology introduction



Cordless and Battery-free Pen Technology

The drawing pen is light weighted and easy to use without unwanted hassle of batteries or wires.

Pressure-sensitive Technology

With excellent pressure sensitivity, the drawing pen can sense tiny pressure from light hand. Let users work easily and comfortably like the feel of traditional painting or drawing and create brush-like effects. Smooth Drawing and Fast Report Rate

Accuracy with High Resolution

Board Resolution can reach 5080lpi. Pen accuracy can reach \pm 0.1mm.



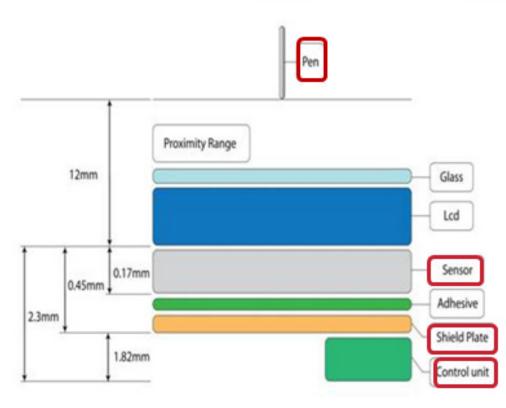




Electromagnetic Resonances Touch Available size: 2" - 100"

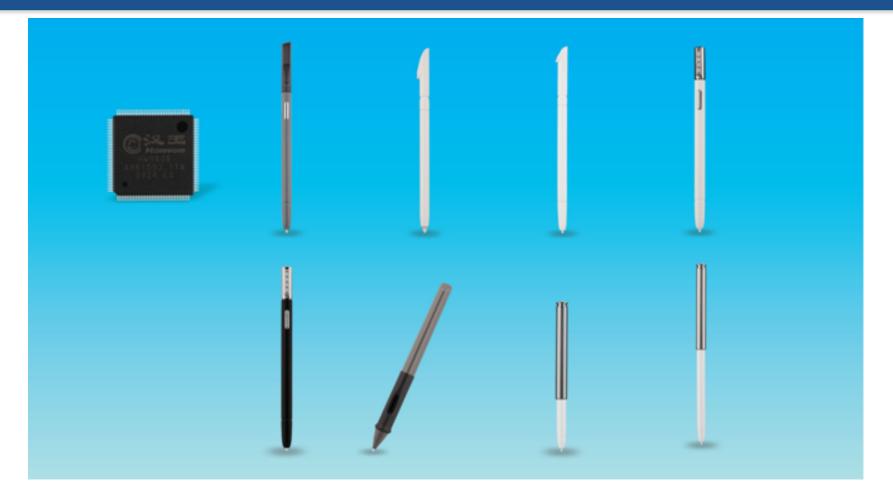


ERT (Electromagnetic Resonance Touch) is one of Hanvon's core technologies. The ERT panel, when embedded in electronics, allows for handwriting input with a high degree of pressure sensitivity, accuracy and resolution. Various software applications for this technology include painting, signature, note taking, annotating, etc.



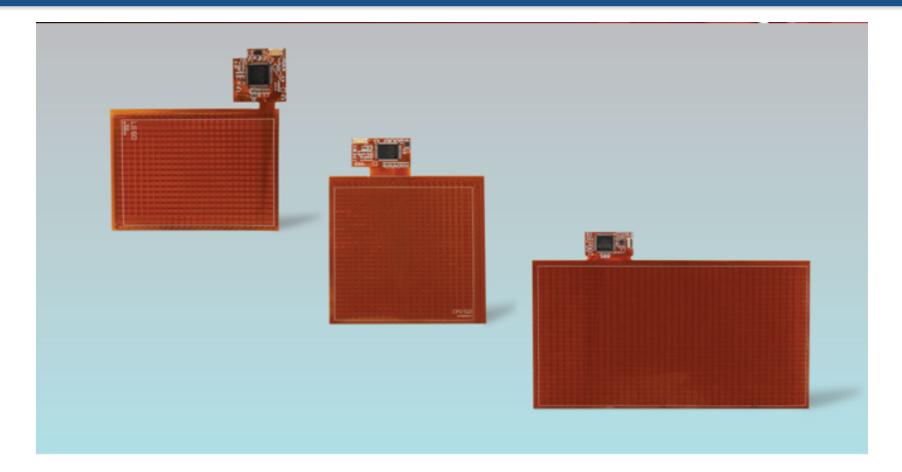
- 1. Pen
- 2. Sensor board
- 3. Shield plate
- 4. Control unit





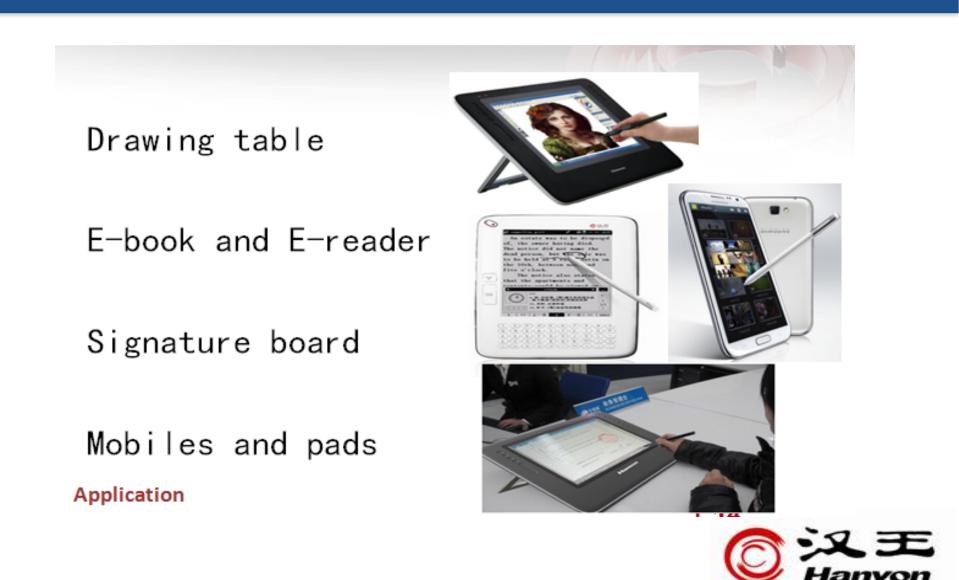
Electromagnetic Touch Pen





Electromagnetic Touch Board





Cooperation and Partners





Major partners















Delighting You Always









Major partners















Partners and Cooperation

Automotive infotainment partners



Thanks

We care about you

We Provide

Leading Technology High Quality Professional Service Long-term Oriented

