



# ***GWANAK PRECISION***

  
**INTRO**

**DETAILS**

**MANUFACTURING**

**COMPARISON**

**PATENT**

**MARKET**

**DEMO**



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*P*

  
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# are you



▼  
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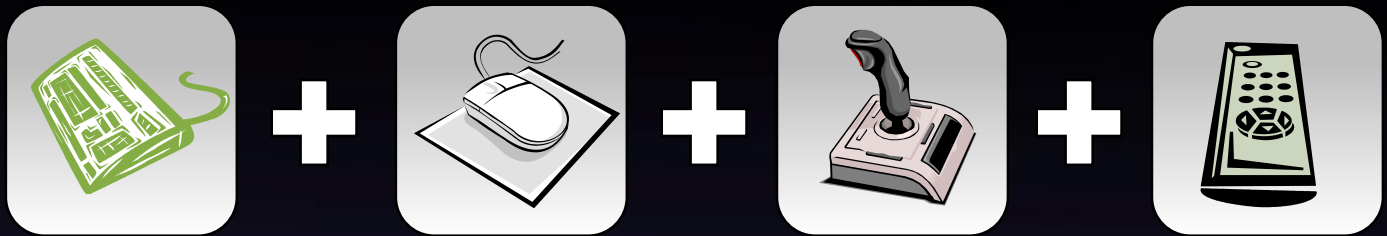
COMPARISON

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# creative



=

“Multi Functional”

Remote controller

# luxury

# &

# stylish

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# *fantastic*

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stand  
standout  
stand from  
stand the  
stand others



designed

to

*enhance*

# unique

  
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easy  
to  
use

# *top quality*

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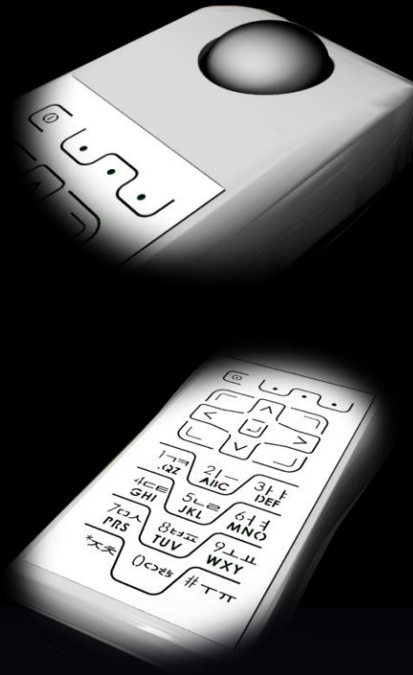
DEMO

*imagine*  
*the*  
*freedom*



# PRELUDE

Multi-Remote controller



ActWide™ Technology

Wireless Mouse

Thumbboard™ Keypad

Available for Video Game, Web Surfing, Home Theater, etc.

Support household devices(e.g., TV, A/C)

Radio Control Acceptable

Time, Date Display(?)

# PRELUDE

Multi-Remote controller



Language : Korean / English

USB 2.0 High Speed Certified

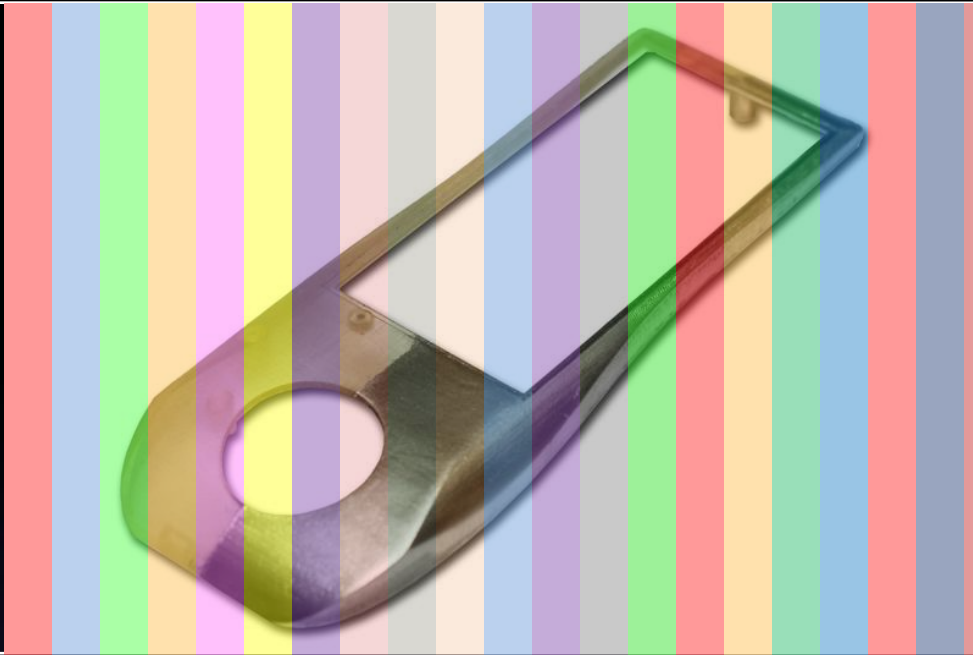
Gwanak Precision™ Prelude™ Software

Windows 98/2000/me/XP  
(Windows Vista Available)

## SYSTEM REQUIREMENTS

Pentium®3 300MHz  
128MB RAM  
50MB hard drive  
1.1 or 2.0 USB port





# ***STEREO- LITHOGRAPHY***

Upper & Lower Cover

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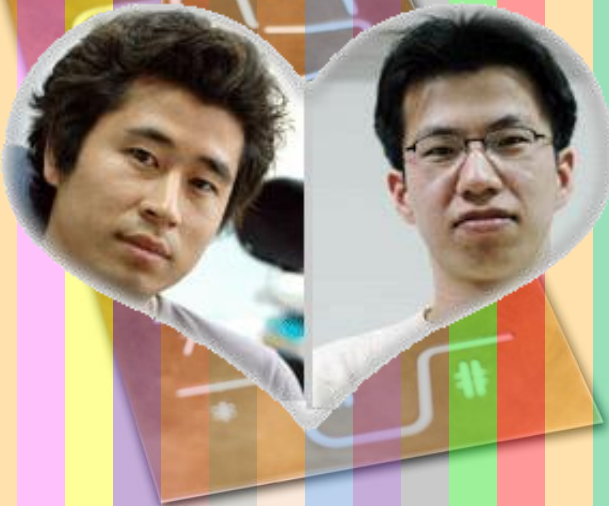
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*Thanks to...*



# **MICRO- MACHINING**

Keypad Film

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# ***INJECTION MOLDING***

Click Buttons

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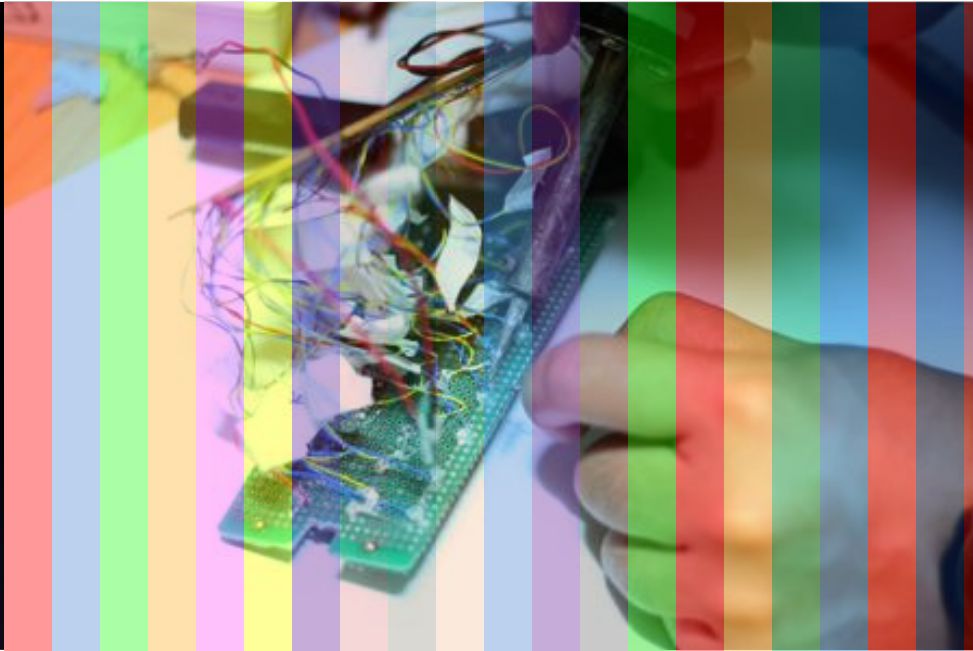
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# ***SOLDERING***

Processor & Circuits

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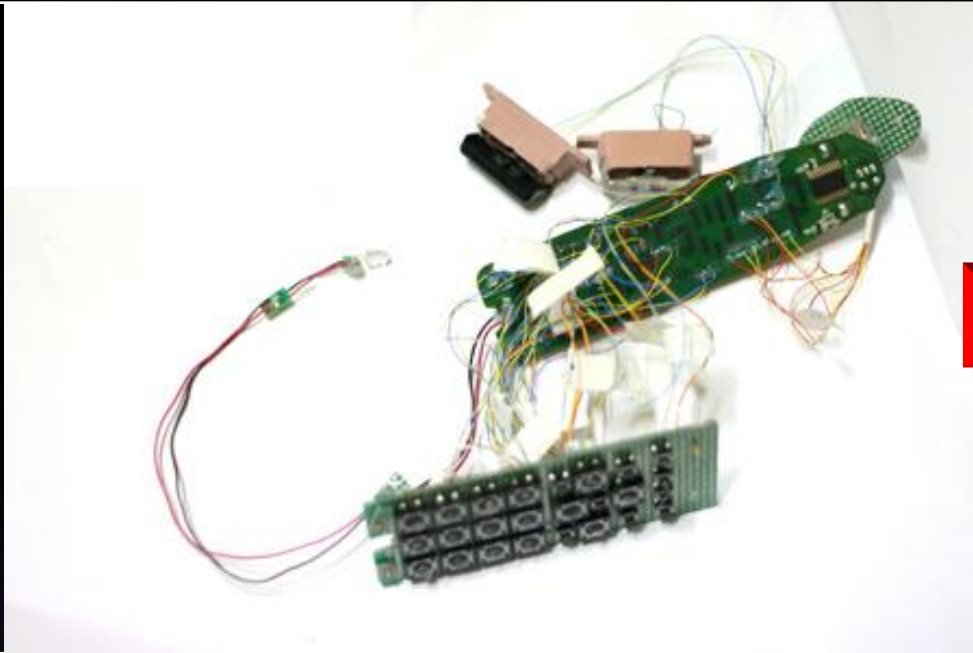
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# 신의 손 - *Hands of GOD*

Surface Finishing  
& Varnishing  
+ Filing  
+ Drilling





*Size can be  
reduced to*

**51%**

*(in volume)*





*DEFECT #2.*  
***COST***



금형 제작
레진
회로
키캐드
블루투스 모듈
이러머
원자
인건비, 유통비,
총 생산 가격



비고
10개가정
2000원/kg
형 pcb board
동 spinning 가공 (version)
(포함시) (version)
화

# GOM Remote control II



Mouse Cursor Control

Function keys for GOM player  
(e.g., play/stop, subtitle, mute, etc.)

Power On/Off

High software-controllability,  
**Low hardware-controllability**

**Impossible to type a letter**

# WNP-N-8000

Microsoft Presenter Mouse



Easy-Presentation  
(e.g., Previous/Next slide button)

Volume control

Laser Sensor

Tilt Wheel

Bluetooth

Battery life indicator

**Impossible to control hardware**

**Impossible to type a letter**

# Scorpius P-20

ione Technology, Xenics



Wireless Keyboard with a Joystick

Covers wide area

**Low Portability**

**Impossible to control hardware**

# 실용신안등록출원서

전자문서 이용가능

참조번호

출원구분  실용신안등록출원  분할출원  변경출원  정당한 권리자의 출원

출원인

순번	성명 / 명칭	출원인코드	주소
1	서후원		서울시 관악구 서울대학교
2	백곰		서울대학교
3	이수민		서울대학교
4	설민석		서울대학교



고안의 국문명칭

고안의 영문명칭

고안자

순번	성명 / 명칭	출원인코드	주소
1	서호원		서울대학교

기타사항  심사청구  조기공개신청  공지예외적용  미생물기탁  
 서열목록  기술이전희망  국가연구개발사업

심사청구

수수료  온라인(FD)  서면

출원료	전체면수	4	면	17,000	원
심사청구료	청구항수	4	항	111,000	원

# Bluetooth™

New trend of Wireless device market



## Year 2009

Prospective Market : 550 billion dollars

## Great increase

in keyboard, and mouse market



Source : Euromonitor

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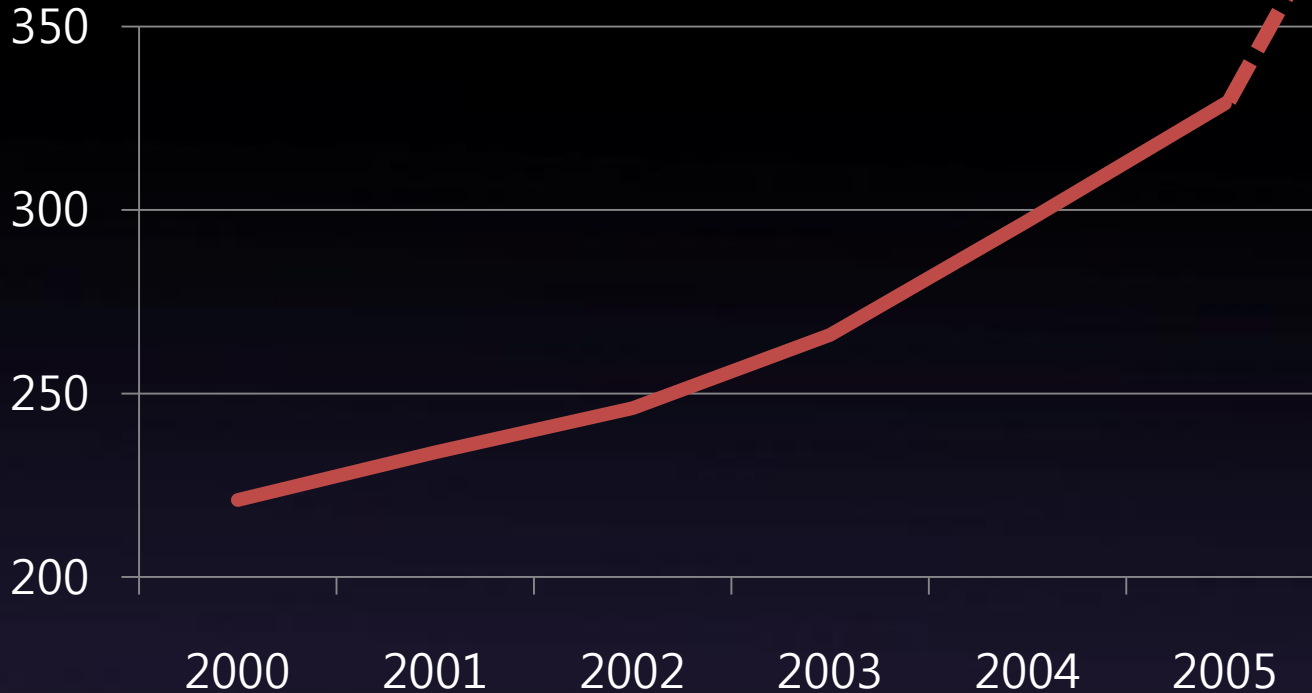


# 9.7%

per year (avg.)

## Portable device market

Billion dollar



— Hardwares

Source : Euromonitor



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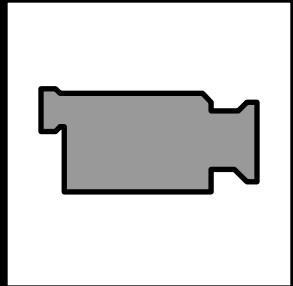
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