

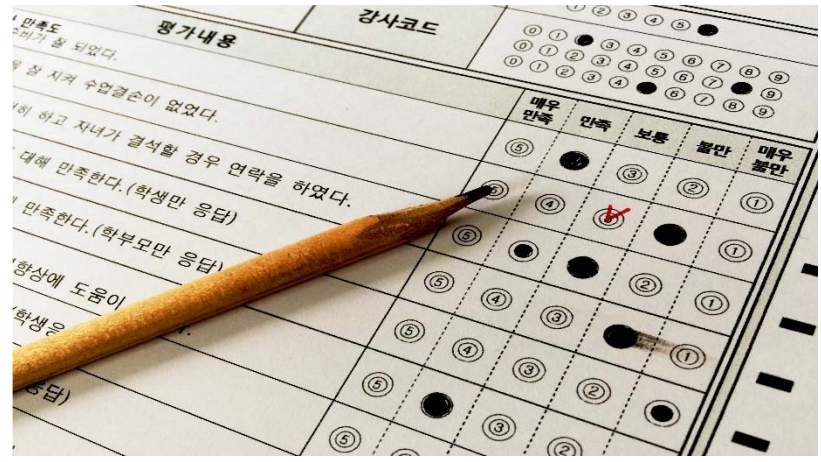
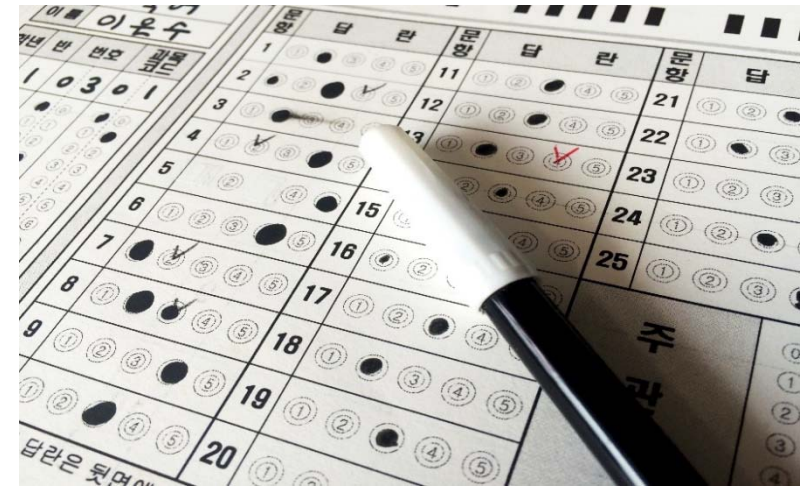


Patented OMR image processing solution

OMRSCAN

Marketing & Sales

2015. Aug



Contents

1. Company introduction
 2. OMR Market trends
 3. Solution
 4. Key benefit & Usage
 5. Reference
- APPENDIX - Patents**

1. Company introduction



Name	OMRSCANNER Co., Ltd		
Main Business	Software developing	Registration number	212-81-86707
Address	702, 144, Hyeonam-ro, Suji-Gu, Yongin-si, Gyeonggi-do, Korea		
Contact	Tel: 070-8630-3803 FAX: 0505-376-3636 omr@omrscanner.com		
Main product	OMRSCAN pro, OMRSCAN ONLINE, OMRSCAN EXAM, School record manager		

Main business

OMR(Optical Mark Reader) reading solution & service through image processing(scanning)

- Developing & sales on OMR Reading program
→ Expand market to survey, evaluation and voting
- Design and sales on OMR answer sheet.
- Expand solution to web access through Internet
→ Released OMRSCAN ONLINE solution
- Expand global market & cooperate business with Global scanner vendor(HP, Canon, Samsung.)



School record management Software

- Consulting program for University & Record management program for private educational institute

OMRSCANNER is Software developing company for school record management , especially **Market leader in OMR solution through image scanning.**

2. OMR Market trends



	OMR Reader	OMR reading from scanned image
Architecture	<ul style="list-style-type: none"> Dedicated system for Only OMR Reader purpose 	<ul style="list-style-type: none"> Window based program to read OMR data from scanning image via common scanner 
How to treat answer sheet	<ul style="list-style-type: none"> Hard to keeping & Transportation. Possibility on loss 	<ul style="list-style-type: none"> Easy to keeping & transportation with scanned image.
Accuracy	<ul style="list-style-type: none"> Strict recognition condition : size of marking, type of pencil, sensitive on ink spreading.. No revision on marking 	<ul style="list-style-type: none"> Flexible recognition condition : configurable on recognition condition Possible revision on marking
Exceptional OMR	<ul style="list-style-type: none"> Exceptional OMR paper is separated on side desk → Manually recheck one by one 	<ul style="list-style-type: none"> Exceptional OMR paper can be rechecked on monitor → recheck on screen
Handwritten comments	<ul style="list-style-type: none"> One by one manual processing. 	<ul style="list-style-type: none"> Pop up handwritten comments on screen
Major vendor	<ul style="list-style-type: none"> SEKONIC 	<ul style="list-style-type: none"> OMRSCANNER, Remarksoftware, etc

OMR reading from scanned image market was not fully matured due to lack of reading accuracy → **Recently, due to improving reading accuracy, OMR scan processing market is rapidly expanding NOW.**

3. Solution - overview



OMRSCAN is a market leading solution to collect and analyze data from plain paper OMR forms.



- Download template from OMRSCAN web site and fill in your wanted contents , complete your sheets
- Scan the sheet from a common scanner or MFP(Multi function printer)
- Read scanned image files(TIFF,JPG,PDF) using OMRSCAN program and Analyze your data.
Note : OMRSCAN program can be installed any Window based PC or Server

3. Solution -portfolio

OMRSCAN Pro

- **Description** : OMR reading program from scanned image to analyze tests, surveys or any pre-designed format.
- **Features** : Correction function on exceptional answer, Pop-up function for descriptive answer on monitor, customize analyze format



OMRSCAN ONLINE

- **Description** : On Line OMR reading service through Internet access
- **Feature** :No initial and fixed cost. Charge cash point on what you want. Easy and simple usage. No scanned image transferring through Internet. Any type of survey (Especially small scale)
- **Usage** : Design template → Save cash point through OMRSCANNER web page → Scan → Download OMRSCAN program → Analysis



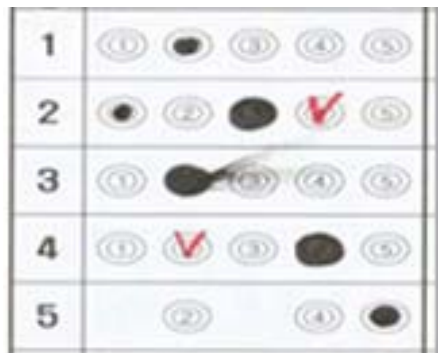
Focusing on **OMRSCAN PRO & OMRSCAN ONLINE** for overseas business

3. Solution –Key technology(1/2)

- **Differentiated high reading accuracy**

- “Recognition Alorism from Area Partition” is detection technology for different marking size using area partition algorism.

Example



- Recognize ② regardless of marking size.
- Recognize ③ as the biggest size according as area partition algorism.
- Adjust edge spreading
- Recognize oversize marking and eraser’s correction.

- **Adjust scanned image to compensate scanner’s low quality**

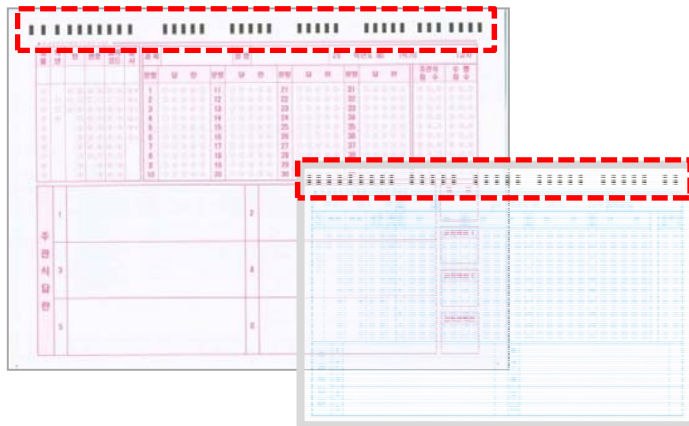
- Scan sensitivity
- Scan resolution
- * scanner’s aging may cause distortion of scanned image

High reading quality & accuracy based on patented technology

3. Solution –Key technology(2/2)



- **Timing mark based reading**
 - To avoid misreading from push/pulled scanned image → Compensate scanner's mechanical faulty



OMRSCAN reading accuracy was proven in Korea IT global company → **This company have replaced existing OMR reader with OMRSCAN since Y2009 through bench marking test for their internal test purpose**

4.Key Benefits & Usage

Benefits

- Cost & time saving
 - Lower price than OMR reader (Software vs Hardware)
 - Eliminate manual processing, resulting in faster turnaround time
 - No need special ink, paper or any dedicated Hardware → Common scanner is enough.
 - Easy to treat scanned image file : Keeping, transportation
- High accuracy and flexibility
 - Variable configuration to compensate scanner's low quality.
 - Use any writing tools(Pen, Pencil, marker, etc)
 - Easily revise answer : Use eraser or remark bigger size

Usage

- Education area : test, institutional research, survey, evaluation ...
- Marketing area : customer satisfaction, inspections, assessments ...
- Any offline survey

Ready to trial demo and show performance

5. Reference



Global company, government organization, schools and academies are deployed in Korea

Appendix – patent



International & domestic(Korea) patented technology

Thank You

(www.omrscanner.com)