



## Case Study

# iFLYTEK and Kodak Alaris Develop Intelligent Grading Solution for Smart Assessment

## A strong combination between Kodak Alaris Scanner and iFLYTEK Intelligent Grading Solution

### Situation

iFLYTEK assists educators to simplify the grading process while improving efficiency and accuracy. Also, it gathers student test data to assist teaching. Smart assessment starts with test digitalization.

### Objective

Transform test papers into images through Kodak Alaris high-quality scanners for intelligent grading.

### Solution

Since 2015, iFLYTEK and Kodak Alaris have reached the national strategic collaboration, purchasing 6,500 scanners (i3320, i3200E and i3500) for Zhixue Intelligent Grading Solution.

### Results

iFLYTEK highly praises that Kodak Alaris scanners deliver consistent throughput and minimize downtime. Kodak i3000 series prove that Alaris Perfect Page technology and customized feeder could meet special demands for scanning test papers.

The first step of intelligent grading solution is to scan all test papers or answer sheets including the objective and subjective and convert them into images. Then teachers mark papers online - system automatically calculates and adds scores for objective questions, while subjective ones will be evaluated online, keeping the original papers clean. Furthermore, big data analysis based on test results could help educators provide personalized teaching for students, reshaping the traditional teaching model.

Since the national strategic collaboration in 2015, iFLYTEK and Kodak Alaris have nationwide provided intelligent grading solution for educators and students, benefiting more schools to build smart campus.

### Customized Feeder Boosts Paper Feeding Rate

The image acquisition of test papers requires a high standard for scanners. Due to unstandardized test papers, the scanning faces challenges of different weights, sizes and qualities of test papers in practice. Kodak Alaris customizes feeder to improve feeding efficiency tremendously.

"With common innovation ideology, Kodak Alaris and iFLYTEK combine cutting-edge scanners with leading intelligent grading solution. We are devoted to developing a new generation of scanner solution, providing more new products for education industry."

iFLYTEK



Kodak i3000 series utilize the following scanning technologies for higher efficiency:

- **Intelligent Document Protection (IDP):** It listens for problems and alerts you before they become jams or misfeeds.
- **Stack up the work:** With a 250-sheet feeder/elevator you can neatly and efficiently scan document batches with ease. Our design ensures continuous throughput with rapid-fire scanning.
- **Straight through paper path:** Thick materials such as cardboard and file folders, and extra-long documents, fly

through the scanner thanks to the straight through paper path.

### Alaris Perfect Page Technology Delivers Excellent Images

High-quality image acquisition supports smart assessment, such as optical character recognition (OCR), natural-language understanding, etc. Kodak i3000 series with Alaris Perfect Page technology optimizes image quality and intelligently manages a host of image processing tasks. It all happens automatically, with every scan. Sharper images make additional processing functions more accurate.

For example, it's challenging for smart assessment to mark essay, translation, short answer and fill-in-the-blanks test answer. With Kodak i3000 series, iFLYTEK intelligent grading solution can easily recognize blank answer sheets and tell if the answer is highly repetitive to others with higher accuracy.

### Tailored Drivers Connect Hardware with Software

Besides high-quality image acquisition, iFLYTEK intelligent grading solution relies on tailored driver software, which is the essential way to connect Kodak Alaris's hardware and iFLYTEK's software. In terms of the image processing, modular customization plays a vital role in parameter setting, which requires multiple times of software development. Thus, excellent after-sales services are key to tailored drivers.



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