

JetInspection Series

for Truepress  Jet520 HD series

High Resolution Scanning and Inspection Solutions

Ensures Optimal Print
Quality and Results

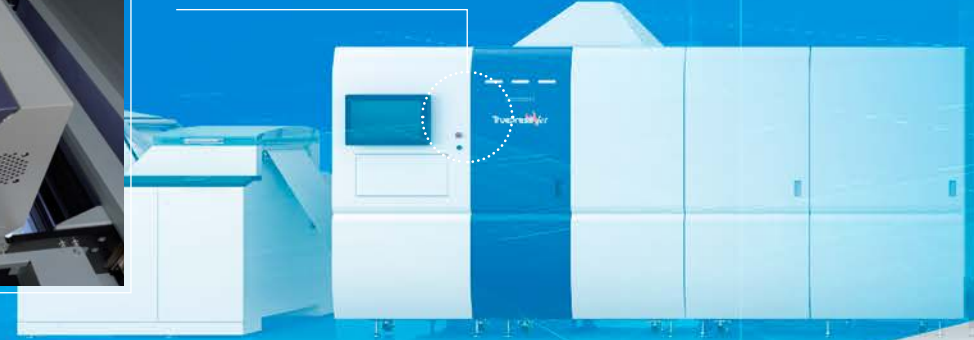
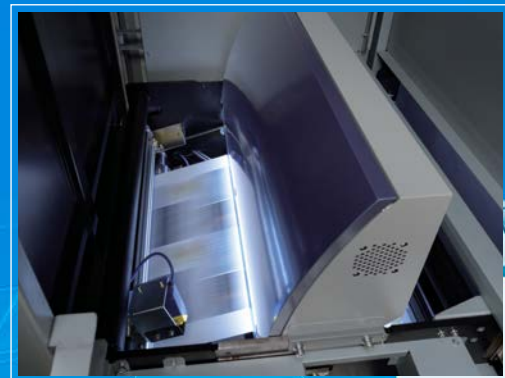
- Real Time Print Monitoring
- Nozzle Health Assistant
- Digital Image Capture of Print
- Actual to Expected Print Comparison



Adding Value to Your Print with JetInspection

The Truepress Jet520 series of standard and high definition printers, print beautifully, economically and consistently but that is not always enough. The JetInspection solution brings invaluable supporting functionality such as:

- Real time print monitoring
- SCREEN's nozzle health assistant
- Printed image capture for a digital record of what's been printed
- Real time printed image to PDF comparison
- Bar code and OCR data capture and database storage



01 High Resolution Scanning System

High-speed daily adjustment of printheads



02 Monitoring Solution

Checking of nozzle health during printing



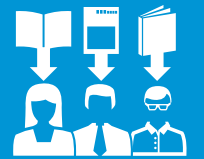
03 Evidence Solution

Capturing printed information for secure closed loop auditing



04 Full Variable Inspection Solution

Comprehensive, full page inspection and record management



01 High Resolution Scanning System

Now available in the Truepress Jet520HD series as a standard feature

Speeds setup for new paper and corrections for substrate inconsistency

JetInspection uses highly sensitive scanning technologies to perform precise printhead adjustments that are essential for quality control in inkjet presses. The system greatly reduces the time needed for correction work that is required when setting up a new paper and a paper that is not printing perfectly across the web. This reduces the time that your printer is not printing.

Main adjustment functions

- Density uniformity
- Nozzle clogging checks
- Printhead alignment

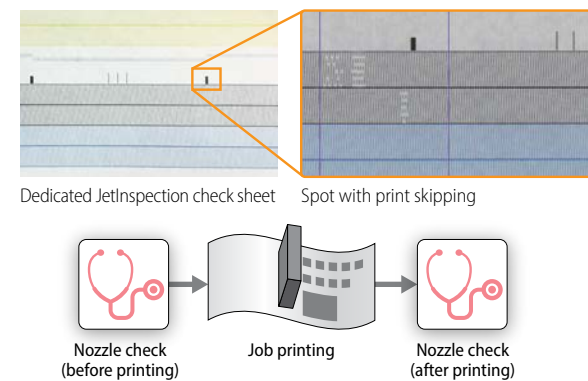
The system applies average values taken from multiple sheets to eliminate quality variations, significantly improving correction accuracy.

02 Monitoring Solution

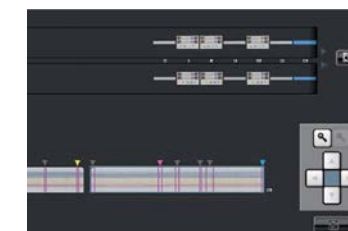
Nozzle health during printing Nozzle Health Assistant and Real Time Monitoring

For any precision manufactured equipment, maintenance is essential to keeping it running smoothly and performing at its highest level of quality. JetInspection monitors the health of all hundreds of thousands of nozzles.

When a jet is not perfect, JetInspection identifies which head(s) needs to be cleaned and readies the printer for One-Touch Cleaning thus spending the least amount of time and resources getting the Truepress Jet520HD back to peak performance.



Real Time Monitoring allows the operator to see what is being printed – as it is being printed. The operator can select an image, zoom in, inspect with their own eyes and make decisions about the product being produced.



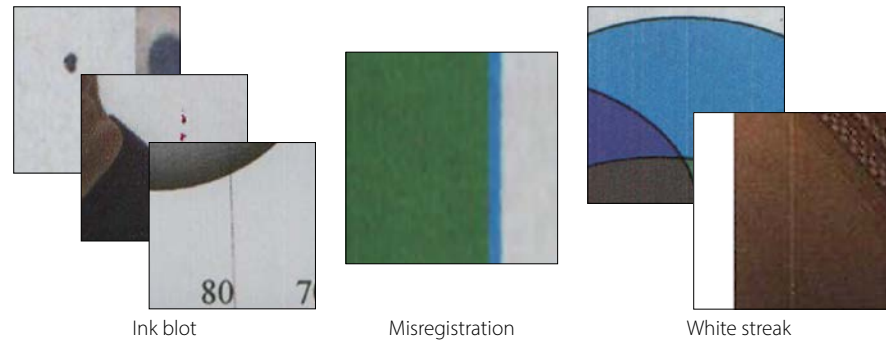
If the check result indicates a nozzle clogging, a guide is shown at the relevant position in the image captured from the sheet



The printhead corresponding to the nozzle clogging is displayed on the cleaning screen

Full Variable Inspection Solution

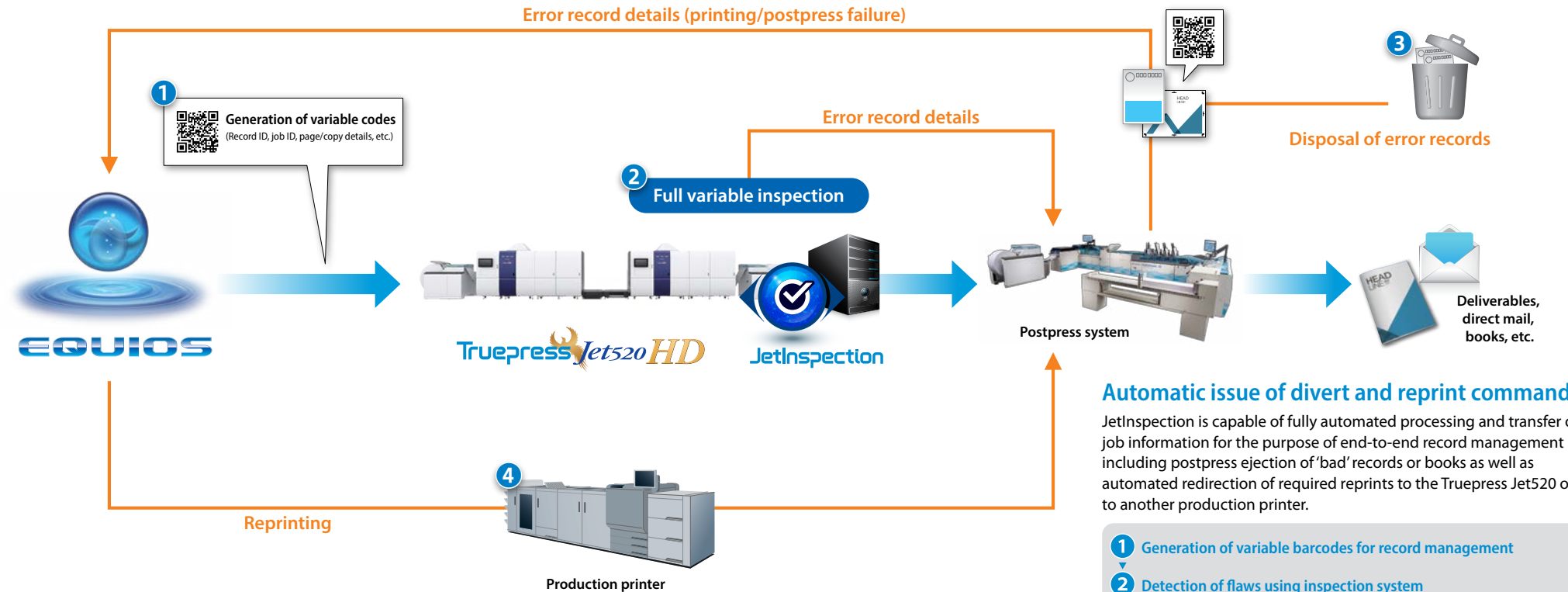
When 100% inspection is required and any deviation needs to be flagged, the JetInspection Full Variable Inspection is the solution. This is a high-end quality management solution that checks the entire printed surface in real time. JetInspection's Full Variable Inspection is able to connect with intelligent postpress systems so that all flagged pages can be handled automatically helping to create an efficient and reliable workflow.



High-precision detection of flaws

JetInspection ensures high-precision detection of many different types of flaws, including missing dots, blurred or fragmented characters as well as discoloration and paper contamination. It also supports inspection for overprinting on preprinted offset shells. JetInspection digitally merges RIP'ed and background image data and detects anything missing or 'extra' that's not supposed to be printed.

This solution provides support for achieving more precise printing. Its ability to stand sentry, based on preset thresholds, for print accuracy also enables it to adapt to diverse quality requirements. The system can be integrated with a rotating warning lamp for high visual notification.



Automatic issue of divert and reprint commands

JetInspection is capable of fully automated processing and transfer of job information for the purpose of end-to-end record management including postpress ejection of 'bad' records or books as well as automated redirection of required reprints to the Truepress Jet520 or to another production printer.

- 1 Generation of variable barcodes for record management
- 2 Detection of flaws using inspection system
- 3 Removal or disposal (diversion) of error records in postpress
- 4 Issue of reprinting commands to production printer



Full Variable Inspection Solution

04

Quality management

The RIP'ed data and final output results undergo a full surface comparative inspection, enabling all data on each sheet, including variable data, to be checked in real time. OCR and barcode reading (decoding) are also performed at up to four items per page.

Solution to confirm the different content on each page is printed correctly

- Checking of variable contents** Matching of target customers and advertising, matching of front and back sides, etc.
- Checking of print quality** Paper discoloration, ink blotting, nozzle clogging, misalignment between process colors, etc.
- Logging of output results** Decoding and logging (CSV) output of text, 1 and 2D barcodes, etc.

Combining this solution with All Image Storage provides an even stronger assurance of printed result quality.

Record management

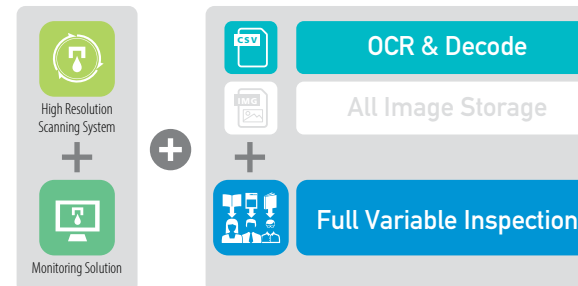
PDF information such as a printed ID number or recipient name can be read and used to manage pages as individual records. Additionally, variable barcodes can be inserted in the trim area for record management, allowing for a streamlined automated workflow that includes intelligent postpress systems. This helps to significantly improve production efficiency.

In book applications, variable barcodes including folding, postpress and copy details can be inserted via EQUIOS' built in Variable Barcode functionality. Based on the results of subsequent inspections, books with flaws can then be diverted by the postpress process.

Full Variable Inspection Solution Packages

Full Variable Inspection + CSV Package

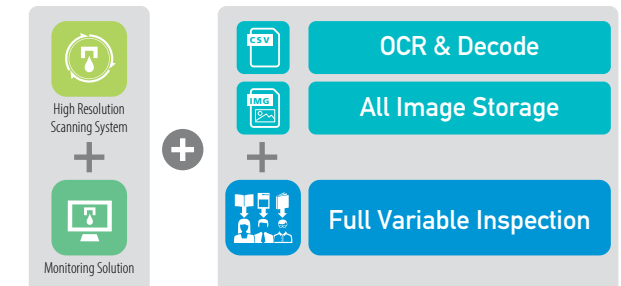
Compact package for evidence creation based on inspection and CSV data



Recommended for clients who wish to save evidence using text data as well as inspection functions

Full Variable Inspection + CSV & Image Package

Full security package featuring inspection plus CSV and image data evidence



Recommended for clients who wish to ensure more reliable quality and evidence using inspection plus full evidence gathering

Each Full Variable Inspection Solution package requires the scanning unit, OCR & Decode option, Nozzle Check & Real Time Monitor option and dedicated hardware.

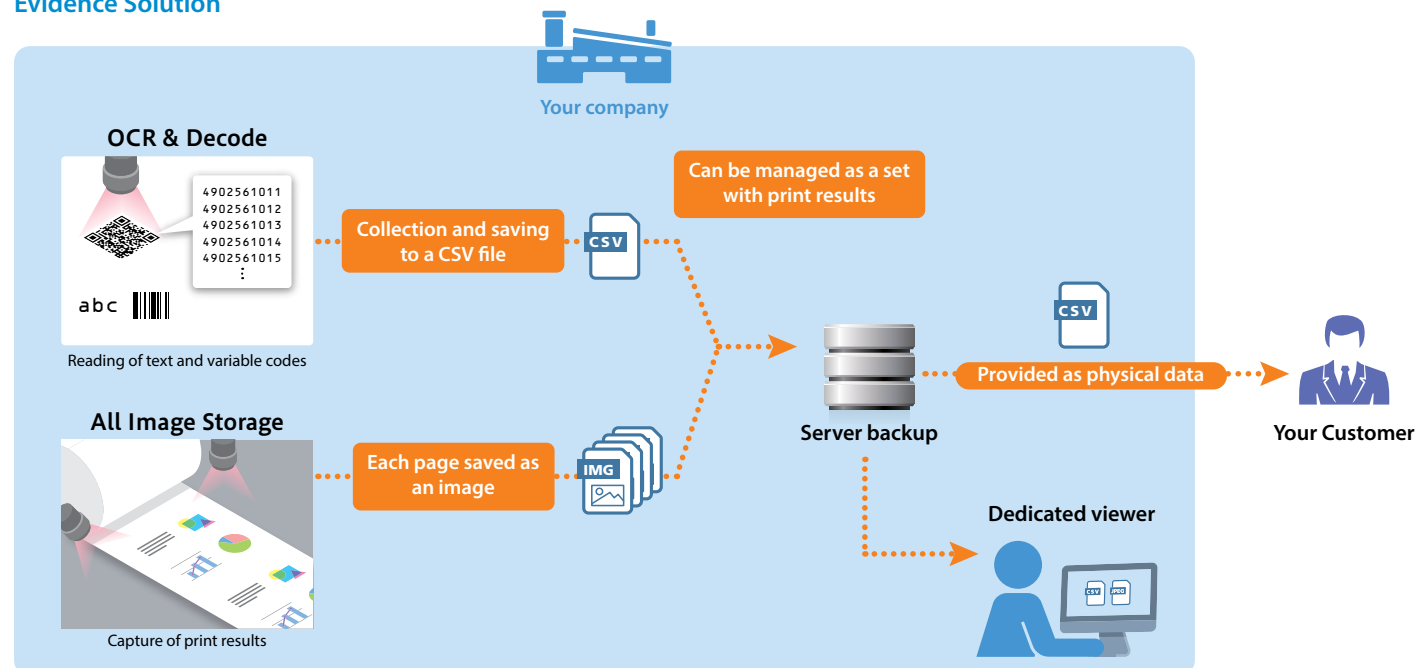
Evidence Solution

Managing printed results is an important function when mail verification and an audit trail are required. For some transactional and direct mail applications, ensuring that all records were printed and accounted for is critical for customer satisfaction.

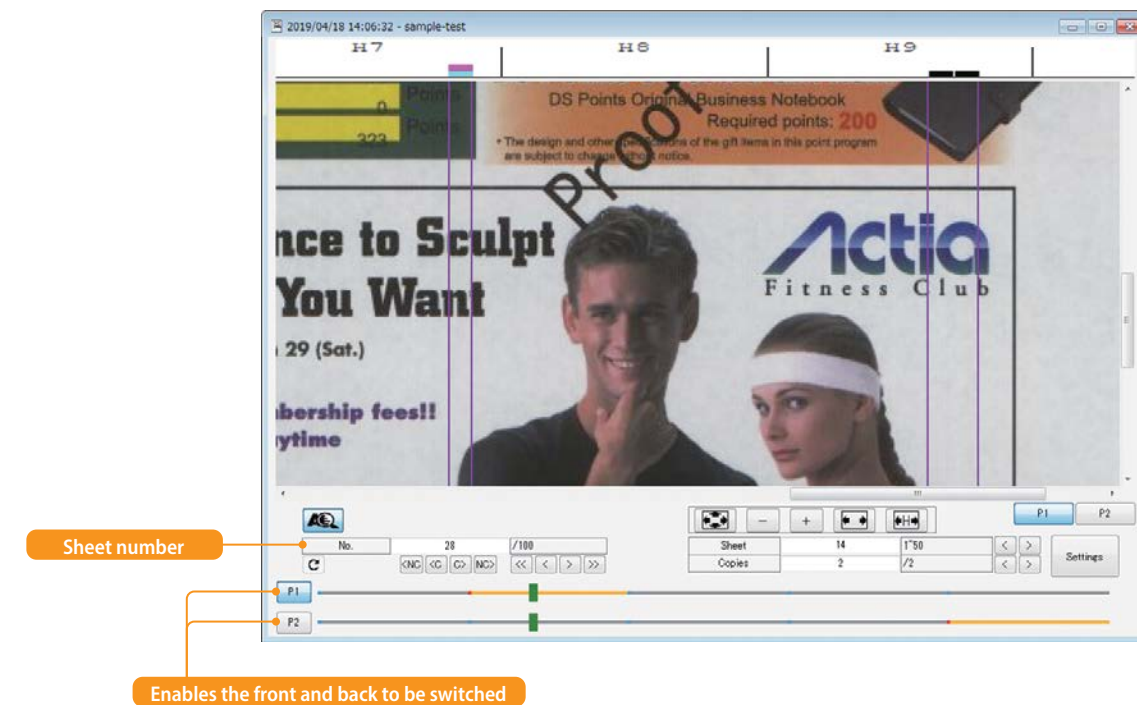
The JetInspection Evidence Solution enables the capture of printed images, text and bar codes on each sheet. This evidence of what has been printed can be stored for later reference or archived for future security.

JetInspection allows companies to earn even greater trust from clients that require printed material management, tracking of printed data and delivery results.

Evidence Solution



Dedicated viewer for All Image Storage



Evidence Solution

03

Enhanced reliability using print result data OCR & Decode

Text information such as names, addresses, numerical values as well as 1 and 2D barcodes can all be decoded and saved as log data. This information can be written to a CSV file, enabling it to be used on virtually any upstream system as evidence of what and when printing took place.

Supported codes

- Text: OCR-B
- Barcode: Code39, Code128, NW-7
- 2D code: QR, DataMatrix, PDF417

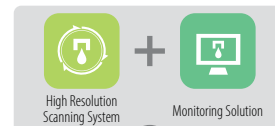
Clear presentation of evidence All Image Storage

All printed text and images can be captured and saved as digital images. With today's one to one marketing, when printed content differs for every person, images provide the ultimate proof that what was printed was what the file called for.

Evidence Solution Packages

CSV Evidence Package

A documented log of records printed, stored in a CSV



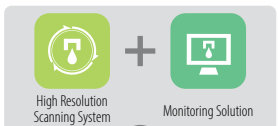
OCR & Decode

All Image Storage

Recommended for clients who need a written record of what's been printed

Image Evidence Package

A library of images of all printed data



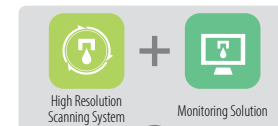
OCR & Decode

All Image Storage

Recommended for clients who wish to save evidence using images of printed data

CSV & Image Evidence Package

Strengthening of evidence using both text and image data



OCR & Decode

All Image Storage

Recommended for clients who wish to retain evidence using CSV and image data

Each Evidence Solution package requires the scanning unit, Nozzle Check & Real Time Monitor option and dedicated hardware.

Product Package Chart

	High Resolution Scanning System	Nozzle Check & Real Time Monitor	OCR & Decode	All Image Storage	Full Variable Inspection
Monitoring Solution	✓	✓	—	—	—
Evidence Solution CSV Evidence	✓	✓	✓	—	—
Evidence Solution Image Evidence	✓	✓	—	✓	—
Evidence Solution CSV & Image Evidence	✓	✓	✓	✓	—
Full Variable Inspection Solution Full Variable Inspection + CSV	✓	✓	✓	—	✓
Full Variable Inspection Solution Full Variable Inspection + CSV & Image	✓	✓	✓	✓	✓

Configuration of Hardware Options and Operating Environment

	Hardware Option	Operating Environment
Monitoring Solution	Not required*	Conforms to operating environment of main press and EQUIOS system
Evidence Solution	1 dedicated personal computer	Conforms to operating environment of main press and EQUIOS system, additional hardware is described at right
Full Variable Inspection Solution	2 dedicated personal computers	Conforms to operating environment of main press and EQUIOS system, additional hardware is described at right
Full Variable Inspection Solution for TP-J 520HD mono	1 dedicated personal computer	Conforms to operating environment of main press and EQUIOS system, additional hardware is described at right

* It may be necessary to purchase a scanning unit separately if one is not installed in the Truepress Jet520HD printer.

Operating Environment of Hardware Options

Power requirements	Input: 100 to 240 V AC Electricity consumption: 240 W
PC dimensions (W × D × H)	430.4 × 444.4 × 177.4 mm (17.0" × 17.5" × 7.0") (4U)
Weight	16 kg (35.2 lb) to 23 kg (50.6 lb)
Installation	Horizontal installation in EQUIOS rack (rails for rack provided) <i>The monitor, keyboard and hub share items in the EQUIOS rack.</i>

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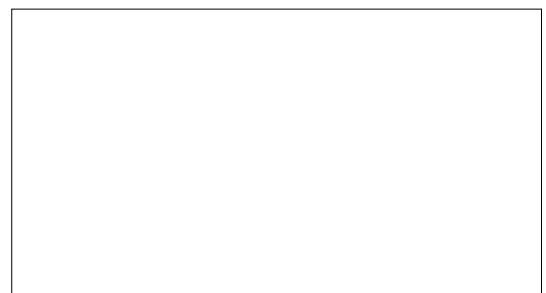
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