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Border Security

Technology Offerings from Canon

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Key Discussion Points !

- Threat Environment
- Various Challenges for Boarder Security
- Capabilities for Effective Border Security
- Available Security Solutions
- Monitoring of Border Intrusions

Technology Currently Used Globally

1. **Physical Barriers** - Physical barriers include border walls and fences, such as the barriers built along the 1,954-mile Mexico-US border

2. **Cargo Scanners** - Using modern sensors, border agents can detect contraband through minute changes in air pressure

3. **Border Surveillance Technology to Track People in Remote Areas** - Border patrol agents rely on various connected electronic surveillance technologies to track people in border areas.

4. **Biometric Identification Devices** using physical characteristics to identify people crossing borders

What's New !

Technological advancements enabling "smart" or "virtual" border walls. **Integrating data collected by advanced cameras, sensors, biometric identification devices, and other detection system**

Rapid Advancement in Facial Recognition Technology – Facial Recognition technology with Artificial Intelligence

Smaller, Smarter, and Cheaper Drones – Drones with Artificial Intelligence

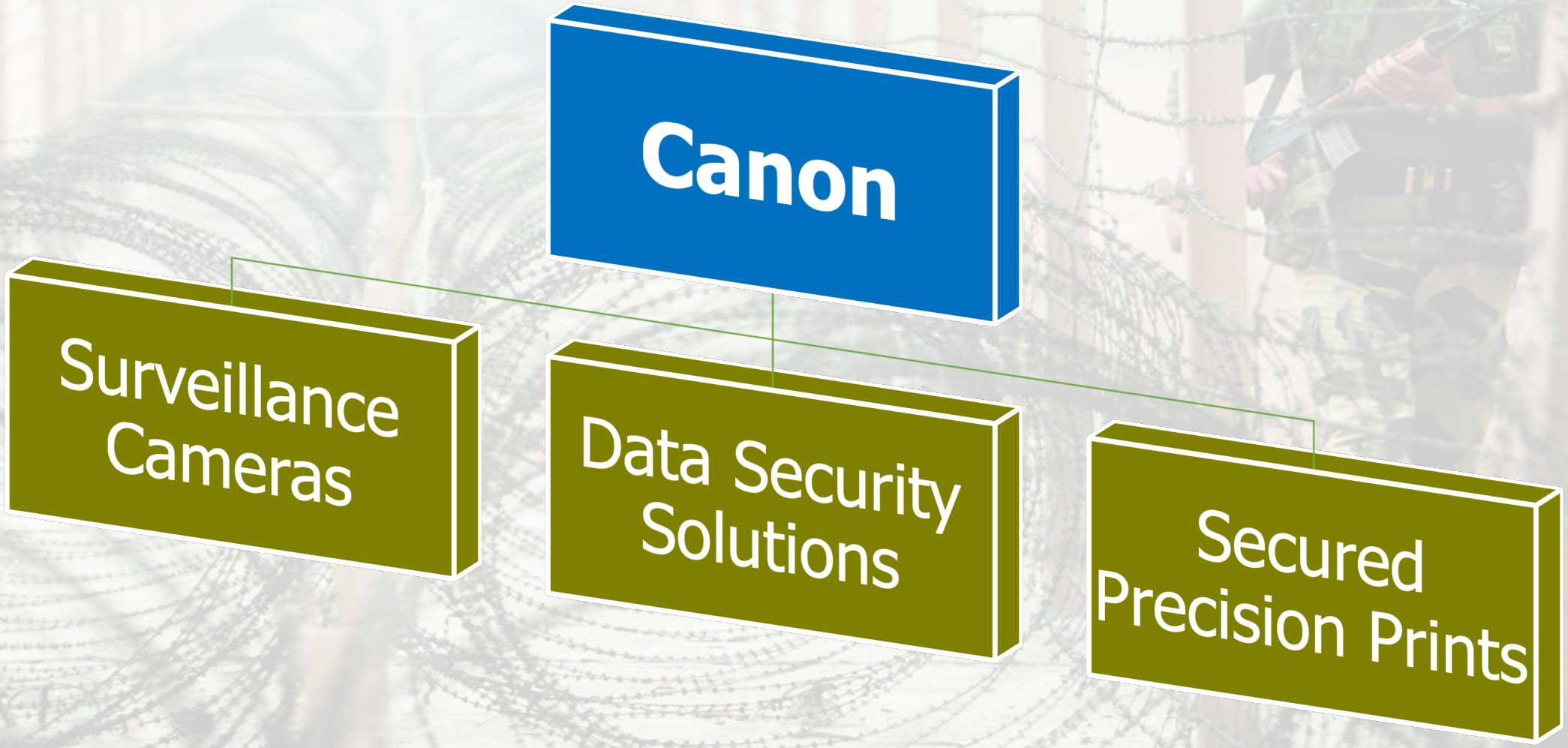
Is Data Security A Challenge

April 2020, Data breach: leaked accounts' details belonged to financial institutions, banks, colleges, and various organizations.

March 2020, Data breach: Leaked personal details such as names, birthdates, and telephone numbers, travel information, and loyalty program information.

Can Canon Contribute to National Security

Thru our Technology Solutions



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Fortune Global Ranking

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CANON COMPANY PROFILE > GLOBAL 500 > # 444

Global 500

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RANK
444

Company Information

As of 8/3/2022

Country	Japan
Headquarters	Tokyo
Industry	Computers, Office Equipment
CEO	Fujio Mitarai
Website	www.global.canon
Company Type	Public
Ticker	CAJ
Revenues ($M)	$32,005.2
Profits ($M)	$1,956
Market Value ($M)	$30,368
Employees	$184,034

Source : https://fortune.com/company

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US Patent Ranking

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Ranks in top 10 since 30 + years

RANK	OWNER	2022 US UTILITY PATENTS	CHANGE FROM 2021
1	SAMSUNG ELECTRONICS CO., LTD.	8513	0%
2	INTERNATIONAL BUSINESS MACHINES CORPORATION	4743	-44%
3	LG CORPORATION	4580	5%
4	TOYOTA JIDOSHA K.K.	3056	11%
5	CANON K.K.	3046	-10%
6	TAIWAN SEMICONDUCTOR MFG. CO. LTD.	3038	8%
7	HUAWEI TECHNOLOGIES CO., LTD.	3023	3%
8	BOE TECHNOLOGY GROUP CO., LTD.	2725	27%
9	RAYTHEON TECHNOLOGIES CORPORATION	2684	0%
10	QUALCOMM	2656	22%

Source : https://harrityllp.com/patent300/

Canon in India

- Canon India was established in 1997
- We employ 900+ people
- Headquartered in Gurgaon, Haryana

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Diversified Product Offerings

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Business-to-Consumer (B2C) Products

Image Communication Products (ICP)

Wide range of Digital Cameras, DSLRs, Cinematic Imaging Products, Camcorders and Accessories

Consumer System Products (CSP)

Range of A3 Single Function and A4 Single and Multifunction Inkjet, Ink Tank and Laser Printers, targeted for home, education, SOHO, corporate and government purposes

Business-to-Business (B2B) Products

Business Imaging Solutions (BIS)

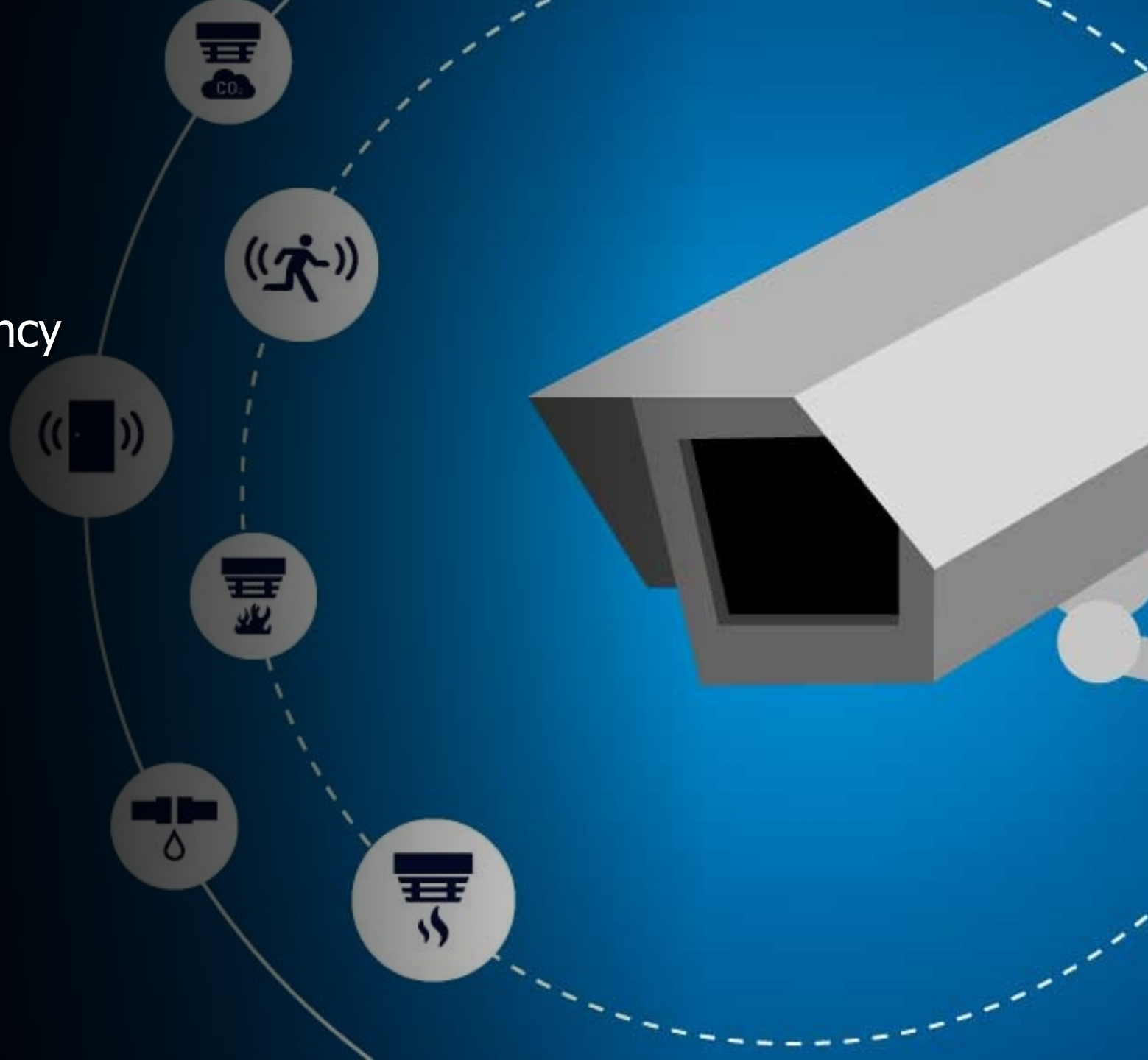
Range of Laser Mono and Color Printers, High-Speed Scanners, Cheque Scanners, Network Video Surveillance Products, and Software Products for print management

Professional Printing Products (PPP)

Solutions for high-end commercial printing, photo printing and large format printing (Inkjet & LED)

Canon Network Video Surveillance is an end-to-end solution and **Systems Integration,** offering Consultancy and Services on

1. CCTV Surveillance
2. Access Control
3. Public Addressing
4. Video Analytics



Our Surveillance Portfolio

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ANALYZE MONITOR RECORD

Network Cameras

AXIS COMMUNICATIONS
Canon Group Company

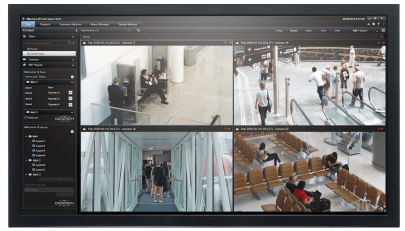
Canon

Video Management System

milestone

OpenEye®

Canon Group Company



Video Content Analytics

BriefCam

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Network Cameras & Radars

AXIS®
COMMUNICATIONS

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In 2015, Canon acquired **Axis Communications** a Sweden based **IP camera** market leader

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Briefcam - Analytics

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Transforming Video Surveillance into Actionable Intelligence

Expediting Review & Unlocking the Value

BriefCam

Input

Unstructured Video

Processing

Structured Data

Interactive Applications

Big Data

How It Can hep In Boarder Security

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Perimeter Intrusion Detection

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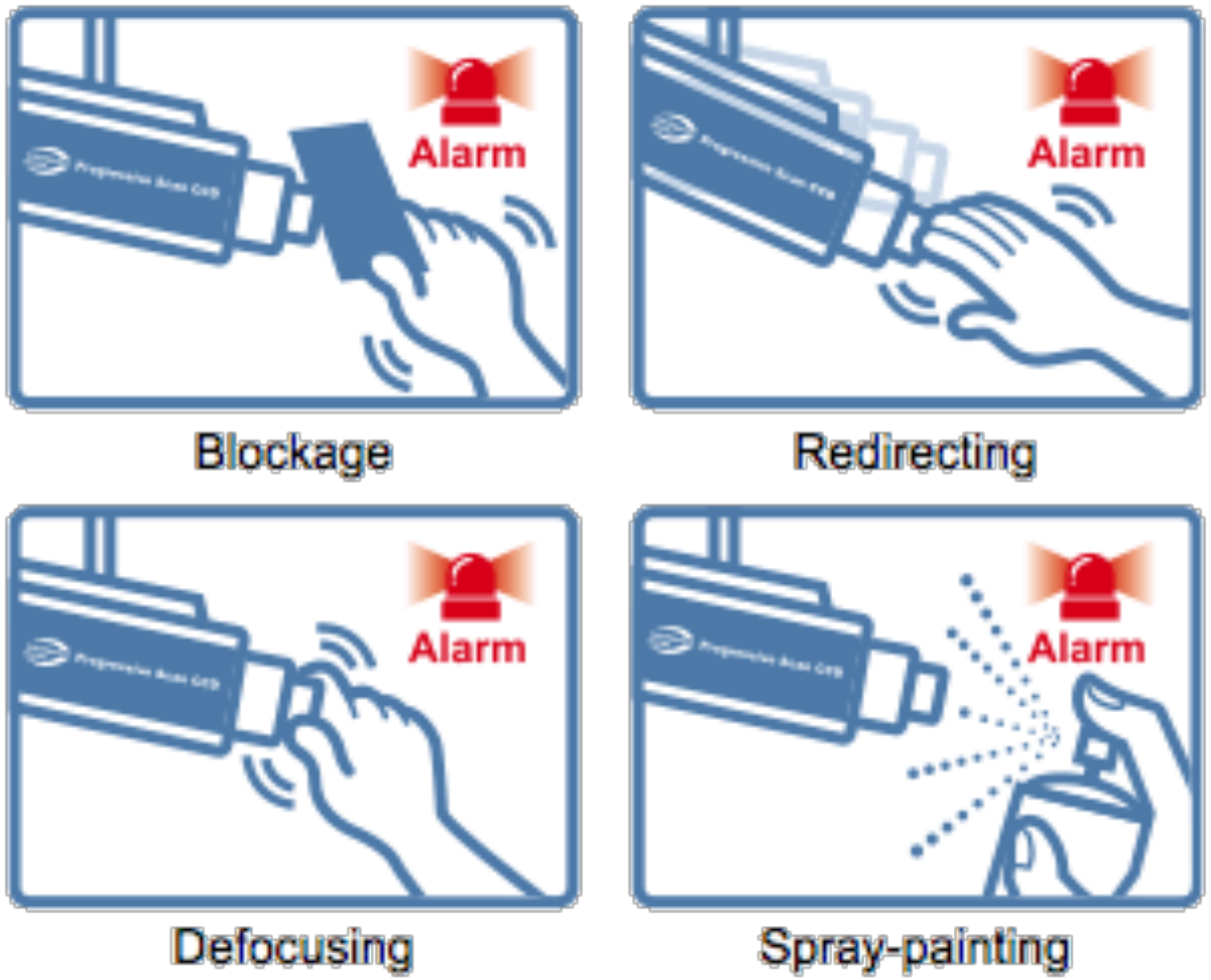
Video Analytics – Camera Loitering Detection

Generates an alert when a moving object remains in a predefined area for a specific amount of time

Video Analytics - Camera Tampering Detection



This feature protects the camera from physical tampering by sending alert to the concern department

CYBERSECURITY SOLUTION

Respond to CYBERATTACKS

1. End Point Devices Security
2. Mail Security
3. 365 Office Business Application Security
4. Network Security

Safeguard Intellectual Property

Protect Business Applications

Document Security While Printing

Secure Printing: Prevent Unauthorized Access to Sensitive Documents.

User Authentication: Users Must Authenticate Themselves Before They Can Print a Document.

Auditing: All Print Jobs Are Logged.

Data Encryption: All Print Data Is Encrypted While It Is In Transit and at Rest.

uniFLOW

Print Management Solution

Secured Large Format Print

Communications
Security

Enhanced encrypted communications

Storage
Security

Enhanced printer setting initialization
Addition of HDD secure disk erasure

Management
Security

Addition of Secure printing with PIN code

Interface
Security

Disabled functionality support
Prevents illegal access

Other
Security

Settings menu to the operation panel

Precise Large Format Print

Text and line drawings with clear boundaries and negligible bleeding

Accuracy +/- 0.1 %

Very Fine Line 0.02 mm thickness

Improved water resistance and Vivid color expression

Higher Precision

Higher Efficiency

Higher Productivity

Strong foundation of core technologies

L-COA PRO Processor

FINE
Full-photolithography Inkjet Nozzle Engineering

FINE Print head

LUCIA TD ink

LUCIA pigment ink

High precision mechanical platform

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