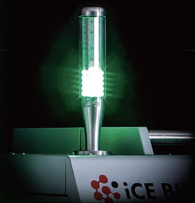


Horizon
Change the **focus**

HORIZON SMART FACTORY 2024

LIGHTS OUT

TAKE AUTOMATION TO THE NEXT LEVEL



Guidebook

2024

10.2 WED ▶ **4** FRI

10:00

17:00

Horizon Innovation Park

(Horizon Headquarters: 1600 Asahi, Shinasahi-cho, Takashima, Shiga, Japan)

Organization: Horizon Group

Partners : Canon Marketing Japan. Inc. / DAC Engineering Co., Ltd.
FUJIFILM Business Innovation Corp. / JSPIRITS Inc. / KONICA MINOLTA JAPAN, INC.
OneVision Software AG / Ricoh Company, Ltd. / RISO KAGAKU CORPORATION
RYOBI MHI Graphic Technology Ltd. / SCREEN Graphic Solutions Co., Ltd.
SpencerMetrics / Tessitura GmbH / Ultimate Tech Inc.

In cooperation with : Value Machine International Co, Ltd.

Welcome to Horizon Smart Factory 2024!

We are overjoyed to welcome you to our home of Takashima, Japan right on the shores of the beautiful Lake Biwa.

In this booklet you will find everything you need to know about the event including schedules, groups, and transportation. The booklet is here to serve as an easy reference but if you have any other questions, please let us know!

TABLE OF CONTENTS

Daily Schedule.....	P.3
HSF Zones Overview.....	P.4
System Map	P.6
System Lineup	P.7
Groups & AM Tours	P.8
Factory Tours & Partner Presentations	P.9
Food, Drink & Matcha Tea Ceremony.....	P.10
Shuttle Buses & Cruise Party.....	P.11
Timetable & More from Horizon.....	P.12

MORE HSF INFORMATION

ON THE HORIZON #1 Newsletter
Lights Out Zone Special Feature



ON THE HORIZON #2 Newsletter
Event Overview & System Lineup



Horizon Podcast
Event Overview & System Lineup



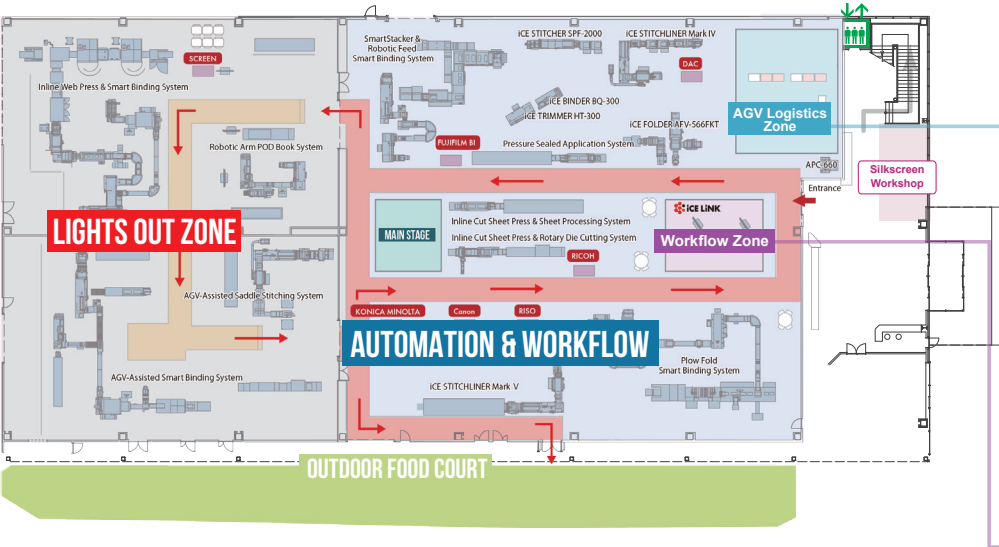
DAILY SCHEDULE

Time	Activity	Location	Details
7:45	Meet for bus ride to Horizon	Kyoto Sta. Avanti Meeting Spot	See Pg. 11 "Group Shuttle Buses"
8:00	Bus departs	Kyoto Sta. Group Bus Terminal	
9:30	Arrive at Horizon	HIP Main Entrance	
10:00	Welcome to HSF 2024	HIP Venue 1 - Main Stage	
10:10	Split into groups	HIP Venue 1 - Main Stage	
10:15	Lights Out Tour	HIP Venue 1	Experience "Lights Out" and go behind the scenes to understand AGV and workflow. See Pg. 8 "Lights Out Tour"
	Break/Prepare for System Tour		
11:00	HSF Systems Tour	HIP Venue 1 & Academy Venue 2	Walkthrough explanations of the systems based on various areas: Lights Out Zone, Automation & Workflow Zone, and New Focus Zone. See Pg. 8 "HSF Systems Tour"
13:00	Free Time Start		Eat lunch in the food court, experience Japanese Tea Ceremony, take a closer look at a system of interest. See Pg. 10 "Food, Drink & Matcha Tea Ceremony"
14:00~	Factory Tours	Start at HIP 2F Cafe Bar	See the Horizon Smart Factory in person. See Pg. 9 "Factory Tours"
14:00~	HSF Partner Presentations	HIP Venue 1 - Main Stage	Learn about the technology of our various HSF Partners. See Pg. 9 "Partner Presentations"
15:30	Happy Hour	HIP 2F Cafe Bar	Alcoholic beverages available
17:00	Event ends		
17:30	Bus departs Horizon	HIP Main Entrance	
19:00	Arrival in Kyoto	Kyoto Sta.	

HSF ZONES OVERVIEW

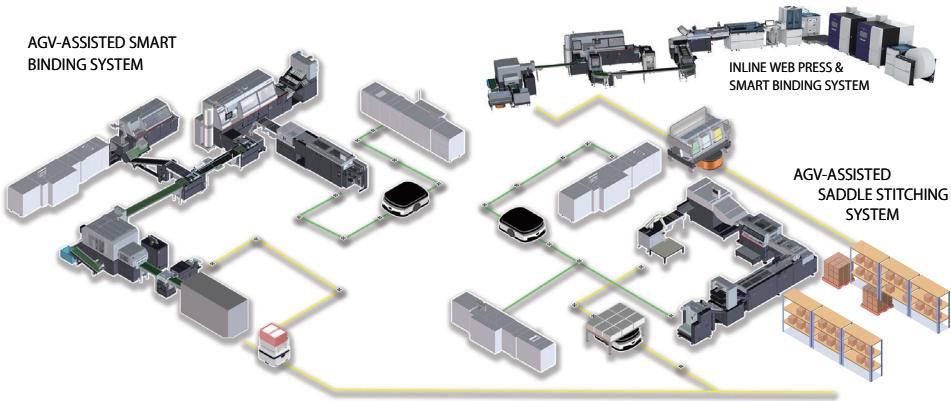
Horizon Innovation Park

Venue 1



LIGHTS OUT ZONE

The Lights Out Zone features end-to-end systems integrated with various robotics and workflow technology that make it possible to operate autonomously without human intervention and in the dark! During the event you will have time to see the systems operating with the lights on and the lights off.



HSF includes three zones: The “Automation and Workflow Zone” which displays each company’s workflow products, new developments, and system-linked devices. The “Lights Out Zone” which features autonomous production and the “New Focus Zone”, which introduces Smart Factory concepts for offset printing.

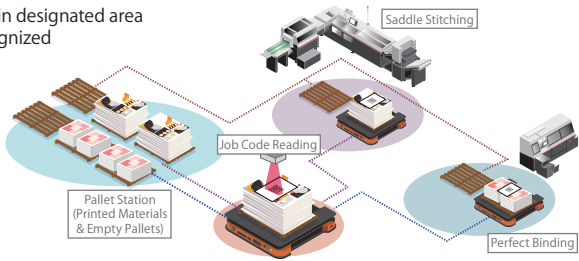
AUTOMATION & WORKFLOW ZONE

The Automation and Workflow Zone features end-to-end inline systems, standalone machines, the AGV Logistics Zone and the Workflow Zone. Additionally, there are a wide variety of printer vendors, workflow partners, and our own Technical Service Team to provide support and information on services and products.

AGV Logistics Zone

In this zone we will be demonstrating automatic pallet transportation using AGVs.

- ① Pallet with printed materials placed in designated area
- ② Pallet placement automatically recognized
- ③ AGV receives transport signal, proceeds to pick up pallet
- ④ Pallet job code is read and transported to specified finishing machine
- ⑤ After processing, empty pallet is transported to designated area
- ⑥ Empty pallet placement is recognized automatically
- ⑦ AGV picks up the empty pallet and returns it to printing area



Workflow Zone

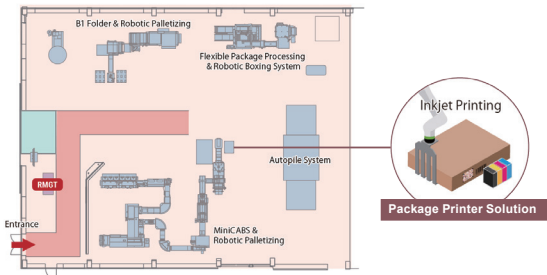
The seamless integration of our iCE LINK Post Press Management system with other partners' workflow software is crucial to achieve end-to-end automation and visualization. Visit the Workflow Zone to talk with Horizon staff and partners about what is possible for your own Smart Factory.



Horizon Academy **Venue 2**

NEW FOCUS ZONE

Not everything is digital. This zone is dedicated to show how Smart Factory technology can be used to automate offset printing workflows. It also features Horizon's first ever flexible packaging machine.

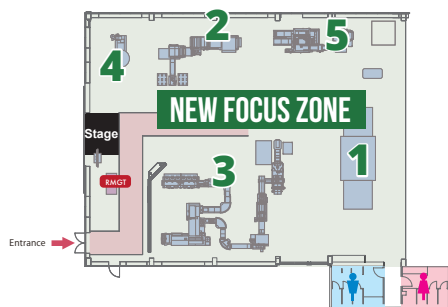


SYSTEM MAP

Horizon Innovation Park Venue 1



Horizon Academy Venue 2



SYSTEM LINEUP

AUTOMATION & WORKFLOW ZONE

1 SMARTSTACKER & ROBOTIC FEED SMART BINDING SYSTEM

B2 Sheet Processor SmartStacker / Feeding Robot Arm
4-Clamp Binder BQ-500 / 3-Side Trimmer HT-300
Stacking Conveyor DV-HT300

2 INLINE CUT SHEET PRESS & SHEET PROCESSING SYSTEM

FUJIFILM BI Revoria Press SC285S
Sheet Buffer Module SBM-100
Sheet Cutter & Creaser SMSL-100
Stacking Device CSD-SMSL

Collaboration with FUJIFILM BI

3 INLINE CUT SHEET PRESS & ROTARY DIE CUTTING SYSTEM

RICOH Pro C9500 Press
Rotary Die Cutter RD-N4055DM
Gathering Stacker GST-50RD

Collaboration with RICOH

4 ICE STITCHLINER MARK V

TECNAU Unwinder u50 / Cutter c51 / Transport t50s
Inline Connection Conveyor IFU-50D
Saddle Stitching System iCE STITCHLINER Mark V

5 PLOWFOLD SMART BINDING SYSTEM

Book Block System BBS-56 / End Sheet Feeder ESF-1000
4-Clamp Binder BQ-500 / Gauze Feeder GF-500
3-Knife Trimmer HT-1000V
Stacking Conveyor DV-HT1000V

6 ICE STITCHER SPF-2000

Collator VAC-L1000 (2 Towers)
Booklet Making System SPF-2000
Punching Unit HP-2000 / Face Trimmer FC-2000

7 ICE STITCHLINER MARK IV

High Speed Offline Feeder HOF-400
Collator VAC-L600H (2 Towers)
Saddle Stitching System iCE STITCHLINER Mark IV

Collaboration with DAC

8 ICE BINDER BQ-300

9 ICE TRIMMER HT-300

10 PRESSURE SEALED APPLICATION SYSTEM

FUJIFILM BI Revoria Press PC1120S
Universal Sheet Buffering Module SBM-100
Sheet Cutter & Creaser SMSL-100
Card Stacker CSD-SMSL /
Folder AF-408F / Hamamatsu Pressure Sealer

Collaboration with FUJIFILM BI

11 ICE FOLDER AFV-566FKT / PST-44

LIGHTS OUT ZONE

1 INLINE WEB PRESS & SMART BINDING SYSTEM

Hunkeler Unwinder UW6
SCREEN Truepress Jet520HD mono Press
Hunkeler Web Buffer WB8 / Cutter CS8
Buckle Folder AFV-566SF + TV-566SF
Book Block Stacker BBS-40
Loose Sheet Book Block Feeder LBF-500
4-Clamp Binder BQ-500 / 3-Knife Trimmer HT-1000V

Collaboration with SCREEN

2 ROBOTIC ARM POD BOOK SYSTEM

High Speed Offline Feeder HOF-400
Feeding Robot Arm / Single Clamp Binder BQ-300
3-Side Trimmer HT-300 / Stacking Conveyor DV-HT300

3 AGV-ASSISTED SADDLE STITCHING SYSTEM

Canon imagePRESS V1000
KONICA MINOLTA AccurioPress C14000
High Speed Sheet Feeder HSF-50
Saddle Stitching System iCE STITCHLINER Mark V
Palamides gamma 502ho Stacker / Palletizing Robot Arm

Collaboration with Canon and KONICA MINOLTA

4 AGV-ASSISTED SMART BINDING SYSTEM

Canon imagePRESS V900
RISO VALEZUS T2200 Press
Sheet Cutter & Creaser SMSL-100
Feeding Robot Arm / 4-Clamp Binder BQ-500
Feeding Robot Arm / 1-Clamp Binder BQ-300
3-Knife Trimmer HT-1000V

Collaboration with Canon and RISO

NEW FOCUS ZONE

1 AUTOPILE & JOGGING SYSTEM

2 B1 FOLDER & ROBOTIC PALLETIZING

Cross Folder AFC-746F / Pallet Feeder PFU-74F
Pile Press Stacker PSX-56 / Palletizing Robot Arm

Collaboration with RMGT

3 MINICABS & ROBOTIC PALLETIZING

6 Pocket Signature Gatherer MG-600 (2 Units)
4-Clamp Binder BQ-500 / Cover Slitter SL-500
3-Knife Trimmer HT-80 / Palletizing Robot Arm
Inkjet Printer

Collaboration with RISO

4 PALLET WRAPPING SYSTEM

5 FLEXIBLE PACKAGE PROCESSING & ROBOTIC BOXING SYSTEM

GROUPS & AM TOURS

GROUP LIST

For morning activities we will break up into groups and rotate through different sections to ensure a more personal and productive experience. Groups have been divided by participant numbers and are listed below by Horizon distributors. These groups will remain the same for factory tours that happen in the afternoon. **If you don't know your group, please check the name tag you receive on arrival.**

Partner Distributor	Group
Advanced Printing Tech. (APT)	C
AMSTEL GRAPHICS (AMG)	G
ARAS (ARS)	A
CIVILETIS (CV)	C
CURRIE (CU)	C
CYBER Singapore (CY)	F

Partner Distributor	Group
CYBER Thailand (CYG)	A
Eastern Trading House (ETH)	A
GIETZ (GZ)	D
Horizon GmbH. (HGM)	F
Horizon Nordic (HN)	D
Intelligent Finishing Systems (IFS)	C
Intergrafica (IPB)	C

Partner Distributor	Group
OCCIGRAF (AZ)	C
PEREZ TRADING (PZ)	C
SAGA (SAGA)	C
SCREEN HD Korea (DSK)	E
Standard Finishing Systems (SD)	B
TERRA PRINT (TPL)	D

LIGHTS OUT TOUR **10:15 Start**

The "Lights Out Tour" includes the ① Lights Out Zone, ② HSF Workflow, and ③ AGV Logistics. In this tour you will experience the Lights Out Zone with the lights off, and learn the fundamental information needed to understand how the Lights Out Zone was made possible.



① Lights Out Zone

Guide: Adrienne



② HSF Workflow

Guide: Kaneda-san



③ AGV Logistics

Guide: Naresh

HSF SYSTEMS TOUR **11:00 Start**

The "HSF Systems Tour" goes more in-depth into the various HSF systems with walkthroughs of each zone: ① Lights Out Zone, ② Automation & Workflow Zone, and ③ New Focus Zone.



① Lights Out Zone

Guide: Adrienne



② Automation & Workflow

Guides: Bryan & Naresh



③ New Focus Zone

Guide: Taketsugu-san

FACTORY TOURS & PARTNER PRESENTATIONS

FACTORY TOURS 14:00 Start

Factory tours will start in the afternoon and offer a behind-the-scenes look at Horizon's smart factory and production processes. Led by our Horizon International Team, each tour will guide small groups through key areas of the factory, highlighting manufacturing and showcasing our innovations. We are so excited to present the opportunity to experience Horizon's technology in action!



Duration: 45min
Starting Point: HIP 2F Cafe Bar
Tour Reservations:

Groups (See pg. 8)			
Time	Oct. 2	Oct. 3	Oct. 4
14:00	A	D, E	G
15:00	B	F	Free
16:00	C		Free



PARTNER PRESENTATIONS 14:00 Start

This event would not be possible without our amazing partners! If you are interested in more information on our printer vendor partners they will be presenting on the main stage in the afternoon!

Presentation Location: Automation & Workflow Zone - Main Stage

October 2

START	PARTNER
14:00	SCREEN
14:20	Konica Minolta
14:40	RICOH
15:00	DAC Engineering
15:20	FUJIFILM BI

October 3

START	PARTNER
14:00	DAC Engineering
14:20	RISO
14:40	FUJIFILM BI
15:00	SCREEN
15:20	RICOH
15:40	Konica Minolta

October 4

START	PARTNER
14:00	FUJIFILM BI
14:20	DAC Engineering
14:40	RICOH
15:00	Konica Minolta
15:20	SCREEN

FOOD, DRINK & MATCHA TEA CEREMONY

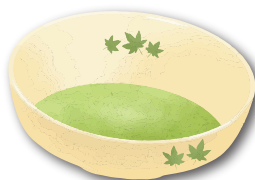
*MENU

13:00 Start

- GRILLED CHICKEN BENTO BOX
- GRILLED BEEF BENTO BOX
- TAKOYAKI OCTOPUS BALLS
- HAMBURGERS
- HOT DOGS
- CREATIVE POTATO FRIES
- ICE LINCREAM



MATCHA TEA CEREMONY



Outside next to the food court we are offering a traditional Japanese Tea Ceremony, a long held tradition. Professionals will be there for both demonstrating and leading visitors through a workshop.

Please come and experience this Japanese tradition!

Look for this flag!



Outdoor Food Court



HIP 2F Cafe Bar



Happy hour everyday from 15:30pm!

Rooftop Terrace



SHUTTLE BUSES & CRUISE PARTY

GROUP SHUTTLE BUSES

We are providing group shuttle buses for easy transportation between Kyoto and the Biwako Headquarters. We highly encourage you to utilize these buses for convenient travel.

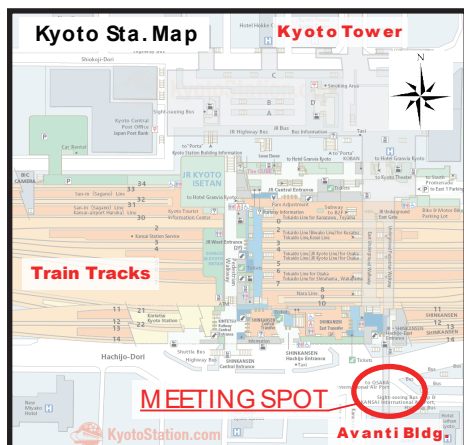
Meeting Spot: Southeast of Kyoto Sta. in front of the Avanti Bldg. "Hachijo Exit" is the nearest Kyoto Sta. exit. From there we will board buses at the group-bus boarding area.

7:45 Meet at AVANTI BLDG.

8:00 Buses depart

If you are unable to make this bus, or are on a different schedule, we will also be providing a shuttle bus to take visitors to the factory from Omi-Imazu station.

(Please see back cover for timetable)



TRANSPORT REFERENCE VIDEOS

For information on the location of the shuttle bus, how to buy a train ticket, or how to find the Horizon bus in Kyoto, please reference the videos to the right!



KYOTO STA. AVANTI Meeting Spot



KYOTO STA.

Using the train to Horizon



OMI-IMAZU STA.

Getting to Horizon HQ



If you travel to Horizon HQ independently, watch these videos.

LAKE BIWA CRUISE PARTY

Let's celebrate! On Thursday October 3rd we will have our cruise party. Everyone registered is invited to join us for dining, drinks, and delightful company while cruising around on Lake Biwa. Here is the schedule for the evening:

- 16:30** Bus leaves Horizon Innovation park and drives to Otsu Port
- 18:00** Otsu Port departure & opening ceremony
- 18:20** Buffet style seated dinner and free time
- 20:00** Arrive back to Otsu Port where the bus will be waiting to take you back to Kyoto



Public Transportation Timetable

KYOTO STA. <> HORIZON HEADQUARTERS

Please use our prearranged shuttle buses from Kyoto Sta., but for those who are traveling independently, please refer to the below timetable to travel to the Horizon Headquarters.
*Times may change to unforeseen circumstances

Service	JR Kosei Line		Shuttle Bus				JR Kosei Line	
	Departure Time from Kyoto Sta.	Arrival Time at Omi-imazu Sta.	Departure Time from Omi-imazu Sta.	Arrival Time at Horizon	Departure Time from Horizon	Arrival Time at Omi-imazu Sta.	Departure Time from Omi-imazu Sta.	Arrival Time at Kyoto Sta.
1	○ 8:19	○ 9:09	9:15	9:25				
2	◎ 8:41	◎ 9:14						
3	○ 8:47	○ 9:33	9:45	9:55	10:30	10:40	○ 11:10	○ 11:58
4	9:02	10:03	10:15	10:25	11:10	11:20	○ 12:10	○ 12:58
5	○ 9:48	○ 10:35	10:50	11:00	12:20	12:30	○ 13:10	○ 13:58
6	○ 10:45	○ 11:34	11:45	11:55	13:45	13:55	○ 14:10	○ 14:58
7	○ 11:45	○ 12:34	12:45	12:55	14:45	14:55	○ 15:10	○ 15:58
8	○ 12:45	○ 13:34	14:10	14:20	15:40	15:50	○ 16:10	○ 16:57
9	○ 13:45	○ 14:34	15:10	15:20	16:10	16:20	16:26	17:31
10	○ 14:45	○ 15:34	15:55	16:05	16:50	17:00	○ 17:08	○ 17:57
11	15:12	16:15	16:30	16:40	17:25	17:35	17:45	18:47

◎: Limited Express Thunderbird ○: Special Rapid Service No mark: Local
*The shuttle bus service is only operated during the event.

MORE FROM HORIZON



LINKEDIN



YOUTUBE



OFFICIAL WEBSITE



INSTAGRAM



FACEBOOK



DOUYIN (CHN)