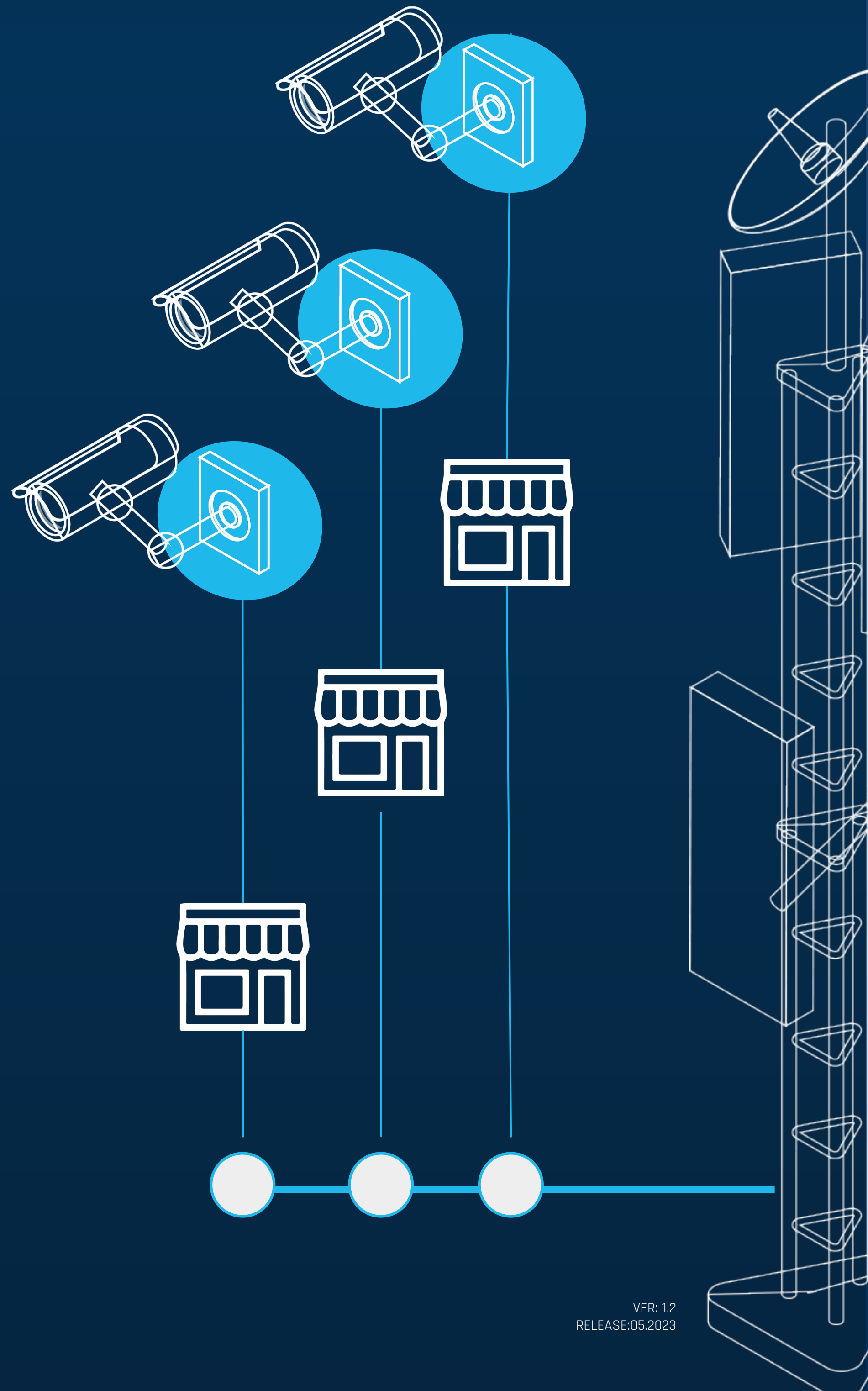POWERED BY ASC27

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Datasheet

VERSIONS.
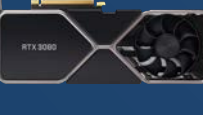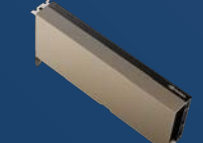
Countless installation and scalability possibilities.

MININODE
NVIDIA JETSON

CAMERAS UP TO
| 16 |

CAMERAS UP TO
| 50 |

VIDEONODE
KEEPED **NVIDIA GPU 3080**

VIDEONODE+
KEEPED **NVIDIA GPU A16**

CAMERAS UP TO
| 200 |

CAMERAS UP TO
| 400 |

FUSIONNODE
SYSTEM VIRTUALIZED + **JETSON BOXED**

CLOUDFUSION
SYSTEM VIRTUALIZED + **JETSON BOX**

CAMERAS UP TO
| +∞ |

Azure

aws

TECHNICAL SPECIFICATION.

A successful collaboration with Nvidia.

NVIDIA.

GRAPHIC CARD	AI AVERAGE CAMERAS	AI CAPACITY
NVIDIA JETSON XAVIER / ORIN	16*	120 FPS
NVIDIA GeForce RTX 3080	50*	1500 FPS
NVIDIA A16	200*	1700 FPS
NVIDIA A30	100*	1800 FPS

*considering video streams at 30 FPS, 1080P, H265, and video analysis at 8FPS.

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There are plenty of possible Use Cases for different industries' exigences to integrate with their systems to gain a more accurate perspective.

	SMART CITY	SMART ROAD	RETAIL	LOGISTICS & WAREHOUSING	DRONES	ENTERTAINMENT	SAFETY & SECURITY	PROPERTIES
BEHAVIORAL AI								
Gender Detection			●			●		
Age Detection			●		●	●		
Group/Family Detection			●		●	●		●
Gaze Detection	●		●		●	●		●
Behavioral Control	●		●	●		●	●	●
Shopping Time Estimation			●			●		
Crowd Detection	●		●		●	●	●	
Body Temperature Tracking	●		●		●	●	●	
SAFETY								
Social Distancing	●		●		●		●	
Personal Safety	●		●	●			●	●
Fall Detection	●			●			●	
Fight Detection	●				●		●	●
Sudden Illness Detection	●			●		●	●	
Panic Detection	●		●		●	●	●	
Suspicious Behavior	●		●				●	●
Theft Protection	●		●				●	●
Weapon Detection	●		●				●	●
Mugging	●		●			●	●	●
Abandoned Object Detection	●	●		●	●		●	●
Escape Detection	●		●	●	●		●	
Work Safety Equipments				●	●		●	
Dangerous Situation Detection	●	●	●	●	●	●	●	●
Property protection			●		●	●	●	●
MOBILITY								
License Plate Recognition	●	●	●			●		
Indoor Vehicle Tracking			●	●		●		●
Traffic Flow Control	●	●	●		●			
Accident Detection	●	●			●		●	●
Parking Areas Control	●	●	●			●		●
Load/Unload Control		●	●	●				
Abandoned Objects on the Road	●	●			●		●	
Weather Conditions Control	●	●			●			
Route Optimization	●			●				

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SITUATIONAL AI

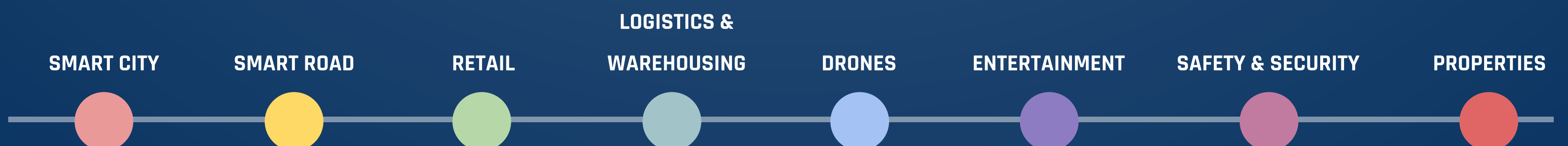| SITUATIONAL AI	SMART CITY	SMART ROAD	RETAIL	LOGISTICS & WAREHOUSING	DRONES	ENTERTAINMENT	SAFETY & SECURITY	PROPERTIES
Flood Detection	●	●	●	●	●	●	●	●
Fire Detection	●	●	●	●	●	●	●	●
Smoke Detection	●	●	●	●	●	●	●	●
Barcode/QR code Detection			●	●				
Abandoned Waste Detection	●		●		●	●	●	●
Specific Object Detection	●		●	●	●	●	●	●
AI Object Measurement			●	●	●	●		
3D Homography	●	●	●	●		●		
Operation Monitoring			●	●	●	●		
Cleaning Time Estimation						●		

The summary of the categories with descriptions:

BEHAVIORAL AI

Gender Detection ● ●
People identification according to gender

Age Detection ● ● ●
People classification according to the age range

Group/Family Detection ● ● ● ●
Identification and sorting of families or group members

Gaze Detection ● ● ● ● ●
Checking of people's gaze direction to allow further investigation

Behavioral Control ● ● ● ● ● ● ●
Detection of anomalous conduct in crowds or single people

Shopping Time Estimation ● ●
A customer's estimated time spent during a specific activity

Crowd Detection ● ● ● ● ●
Trajectory/flow of people in designated areas with route optimization

Body Temperature Tracking ● ● ● ● ●
People's body temperature measurement

MOBILITY

License Plate Recognition ● ● ● ●
OCR reading on vehicle plates

Indoor Vehicle Tracking ● ● ●
Tracking of working vehicles with cameras, no GPS

Traffic Flow Control ● ● ● ●
Trajectory/flow of vehicle distribution in designated areas

Accident Detection ● ● ● ●
Monitoring and real-time alerts of traffic accidents

Parking Areas Control ● ● ● ● ● ● ●
Automated counting and optimization of parking spaces

Load/Unload Control ● ● ●
Real-time verification of the correct use of designated areas

Abandoned Objects on the Road ● ● ● ●
Monitoring abandoned objects on the roads

Weather Conditions Control ● ● ●
Weather conditions tracking

Route Optimization ● ●
Route optimization with AI

SMART CITY — SMART ROAD — RETAIL — LOGISTICS & WAREHOUSING — DRONES — ENTERTAINMENT — SAFETY & SECURITY — PROPERTIES

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SAFETY

Social Distancing

Identification of people's gatherings where forbidden, indoor and outdoor

Personal Safety

Reporting of dangerous situations in designated areas

Fall Detection

Real-time alerts of people falling on the ground

Fight Detection

Identification and alerting of sudden brawls

Sudden Illness Detection

Real-time alerts of people fainting and collapsing

Panic Detection

Real-time detection of alarming situations

Suspicious Behavior

Detection of suspicious behavior to avoid crime

Theft Protection

Identification and alarm creation of theft

Weapon Detection

Recognition of weapons presence

Mugging

Instant alarm in case of mugging

Abandoned Object Detection

Monitoring and tracking abandoned objects

Escape Detection

Reporting of quick escapes or getaways

Work Safety Equipments

Recognition of people not wearing protective equipment when required

Dangerous Situation Detection

Detect any dangerous or risky situation which can arise

Property protection

Property monitoring and tracking for maintaining security

SITUATIONAL AI

Flood Detection

Monitoring and real-time alarms of underpasses and areas with flooding risk

Fire Detection

Check premises for accidental fire bursts and alerts guards or fire brigade personnel

Smoke Detection

In case of smoke detection it alerts immediately the responsibles

Barcode/QR code Detection

QR codes or barcode scan for packages and working vehicles identification

Abandoned Waste Detection

Monitoring of illegal abandoned waste on the streets

Specific Object Detection

Detailed Item recognition based on their shape (e.g., car models)

AI Object Measurement

Evaluation of item size from the camera

3D Homography

3D geo positioning of a given object in a space recorded by cameras

Operation Monitoring

Real-time reporting of unsafe or forbidden situations during working operations

Cleaning Time Estimation

Estimated time of cleaning

SMART CITY   SMART ROAD   RETAIL   LOGISTICS & WAREHOUSING   DRONES   ENTERTAINMENT   SAFETY & SECURITY   PROPERTIES

vision.