

Lenovo.com

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Jakarta, 14 Februari 2023

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Kepada Yth.

PT. Kereta Api Indonesia (persero)

Jl. Perintis Kemerdekaan No.1, Bandung 40117

Prihal : Informasi Spesifikasi Teknis

Dengan Hormat,

Bersama ini kami informasikan spesifikasi teknis yang dibutuhkan dalam proses Pengadaan Server untuk Face Recognition

- Perincian Spec terlampir
- Franco Jakarta

Demikian surat keterangan spesifikasi Lenovo product kami sampaikan, apabila dibutuhkan informasi lebih lanjut silahkan menghubungi kami. Atas perhatian kami ucapkan terima kasih.

Hormat Kami,

The image shows a handwritten signature in blue ink over a blue "Lenovo" logo. The signature is stylized and appears to be "Daniel Yuditya Yappy".

Daniel Yuditya Yappy
Account Manager
Lenovo Indonesia Infrastructure Solution Group



Spesifikasi Produk

Server Lenovo		
7Z73CTO1WW	Server sense Foundry Pro : ThinkSystem SR650 V2-3yr Warranty	3
	ThinkSystem 2U 2.5" Chassis with 8, 16 or 24 Bays	3
	Intel Xeon Silver 4314 16C 135W 2.4GHz Processor	6
	ThinkSystem 32GB TruDDR4 3200 MHz (2Rx8 1.2V) RDIMM	24
	ThinkSystem RAID 940-16i 8GB Flash PCIe Gen4 12Gb Internal Adapter	3
	ThinkSystem 2.5" 2TB 7.2K SAS 12Gb Hot Swap 512n HDD	24
	ThinkSystem 2.5" Multi Vendor 240GB Entry SATA 6Gb Hot Swap SSD	6
	ThinkSystem 2.5" 5300 480GB Entry SATA 6Gb Hot Swap SSD	6
	ThinkSystem 2U 8x2.5" SAS/SATA Backplane	6
	ThinkSystem Broadcom 57454 10/25GbE SFP28 4-port OCP Ethernet Adapter	3
	ThinkSystem NVIDIA A2 16GB PCIe Gen4 Passive GPU w/o CEC	12
	SFP+ SR Transceiver	6
	ThinkSystem 2U PCIe Gen4 x16/x8/x8 Riser 1 or 2	3
	ThinkSystem 2U PCIe Gen4 x16/x8/x8 Riser 1 or 2	3
	ThinkSystem V2 1100W (230Vac/115Vac) Platinum Hot Swap Power Supply	3
	2.8m, 13A/100-250V, C13 to C14 Jumper Cord	3
	ThinkSystem XClarity Controller Standard to Enterprise Upgrade	3
	ThinkSystem 2U Performance Fan	18
	ThinkSystem Toolless Slide Rail Kit v2	3
	ThinkSystem 2U EIA Latch Standard (Left)	3
	Premier Essential - 3Yr 24x7 4Hr Resp + YDYD SR650 V2	3
	XClarity Pro, Per Endpoint w/3 Yr SW S&S	3
	Lenovo XClarity Pro, Per Managed Endpoint w/3 Yr SW S&S	3

SenseTime is committed to provide the necessary resources and supports related to SenseTime product and SenseTime management software in accordance and within the parameters of each SenseTime technical submission excluding the financial supports.

Product License List :

Name : SenseStudio-Basic Software LIC for Cluster
 License No. : ST-SPACE-STD10230
 Mandatory : Cluster version base license

Product Function List

Function	
ST Device Management	Support SenseTime smart devices management , including : Facial Recognition \ Nebula-AIE \ SenseDLC
Camera Support	Support cameras with 2M resolution (and above) and standard RTSP stream format
ST Platform Management	Support SenseTime AI platform management , including : SenseBoundaryEnterprise / SenseStudio
Facial Analysis	Support blacklist/whitelist/stranger detection & analysis
Structural Analysis	Support SenseTime standard face/human/vehicle/moped detection & attribute analysis
Crowd Analysis	Support crowd attribute analysis like density, abnormal crowd behaviour alert, etc.
Attendance Management	Support attendance check through video analysis
Live Tag Rendering	Support realtime, visualized video tag rendering, including: <ul style="list-style-type: none"> • Identification • Member level • Emotions Tag • Customized Biz Information • Object Attribute Tag
Smart AP Integration Toolset	Support flexibly assembles customized business integration logic with the visualized and modularized drag-and-drop toolset
Policy Management	Support policy management on various access control and attribute analysis scenarios, with composable event filtering rules including timeslot, devices, person group, etc.
Privilege Management	Support platform function & data privilege control by account, role, and privilege group.

Industrial Function Pack	<p>SenseStudio has accumulated a large number of industry- specific applications in real projects, such as:</p> <p>Ticketing: backlist filter/ ticket and face ID association/ ticket and face ID validation.</p> <p>Manufacturing: work shift compliance management/ access management of multiple sites/ product line staffing monitoring.</p> <p>Banking/Telecom branch: real-time tag rendering/ branch customer satisfactory survey.</p>
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System Performance Index	
Face Volume	Storage volume: 2000 pics/video/day, Analysis volume: 2 pics/video/second
Structural Object Volume	Storage volume: 500 pics/video/day , Analysis volume: 1 pic/video/second
FR Analysis Face DB Size	total: 1 Million , per analysis group: 100K
FR Analysis Face DB No	Up to 50
Face Searching DB Size	Standalone version: 25 Million\Cluster version: 50 Million
Activated Face Profiles	Standalone version: 1 Million\Cluster version: 2 Million
Analysis response time	≤1S
E2E response time	≤1S
Face searching response time	≤3S
Model Performance Index	
FR angle limit	yaw≤30°, pitch≤30°, roll≤30°
Face detection size limit	Distance between eyes ≥ 30 pixel
Face recognition size limit	Distance between eyes ≥ 40 pixel
Face detection rate	detection rate ≥ 95% when number of faces in 1 frame ≤ 20
Human detection size limit	Larger than 120*60 pixels
Vehicle detection size limit	Larger than 128*128 pixels
CarPlate detection size limit	Larger than 128*32 pixels
Facial Analysis Index	the false negative rate is <5%. when the false alarm rate is ≤1%.
Face Attributes	Gender、Age、Masks、Glasses、Beard、Skin Color and Facial Expression

Human Attributes	Headwear、Mask、Umbrella、Bags、Shoes、HairStyle、Shirt、Bottom
Vehicle Attributes	Color、Vehicle Type、China Car Plate、Vehicle Brand and Sub-Brand
Moped Attributes	Color、Moped Type

Thank you!

Yours sincerely,
For and on behalf of
SenseTime International Pte. Ltd.



Leah Lee
Head of Sales, Indonesia
16 February 2023