

Pantos Link4Healthcare


LX Pantos Links the World

Beyond Logistics, Beside you

 LX Pantos



GET MORE
INFORMATION

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 LX Pantos

LX Pantos Healthcare Logistics Solution

✓ Pantos Link4Healthcare Introduction

During the Pandemic, the global healthcare market has improved and innovated the overall healthcare transportation process in a very short time. While growth of aging population leads to development of healthcare market, customer's demands for pharmaceuticals transportation solution which can prevent damage during the transportation process are increasing.

This is the reason why we, LX Pantos, share our healthcare expertise and high quality specialized service based on our 360 networks around the globe. LX Pantos always meets healthcare customer's satisfaction with more than 40 years of international transportation experience, capability and healthcare exclusive infrastructure while complying with international healthcare service quality management system.

We cover all the pharmaceuticals from drug substance, OTC, cosmetic medicine, vaccine, plasma to precision medical devices, etc. Now we invite you to explore our global top level one stop international healthcare logistics service.

✓ Pantos Link4Healthcare Global Network HUBs



Country	Countries	Networks	Warehouses
South Korea (HQ)		70	75
China		99	43
Asia	10	41	30
ME/Africa	5	50	42
Europe	9	38	27
North America	3	33	21
South America	4	16	6
CIS	3	10	10

LX Pantos provides **High quality healthcare logistics** service with 360 global networks in 40 countries.

✓ Pantos Link4Healthcare Gives You 4 KEY Advantages

Expertise

- Abundant Cold Chain Logistics Experiences in Pharmaceutical Business
- Establishment Systematic Contingency Plan in Healthcare Business
- Healthcare Quality Certification : CEIV Pharma, GDP, ISO13485, ISO9000, etc.

Infrastructure

- KGSP Certified Healthcare Logistics HUBs : CRT(1~25°C / 2~25°C), Cold(2~8°C), Frozen(-20°C)
- Possess 350 units of In-housing TCV & 800 boxes of Passive Packaging Solution Establishment & Management Regional Pharmaceutical Distribution HUBs



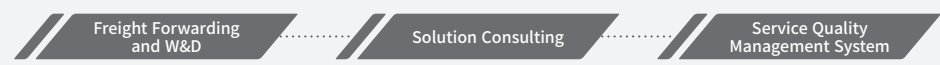
High Quality

- Securing Stable Space & Device based on Master Lease Agreement
- Stable Air/Ocean Freight Charge though Annual Contract with Major Carriers
- Dedicated Organization & QA by in-house Pharmacists

Visibility

- Risk Control & Contingency Plan with 24/7 Monitoring System
- Establishment of Market Intelligence Analysis by over 60 Professionals
- Customer-centric Dashboard based on Smart Visibility

Pantos Link4Healthcare Service



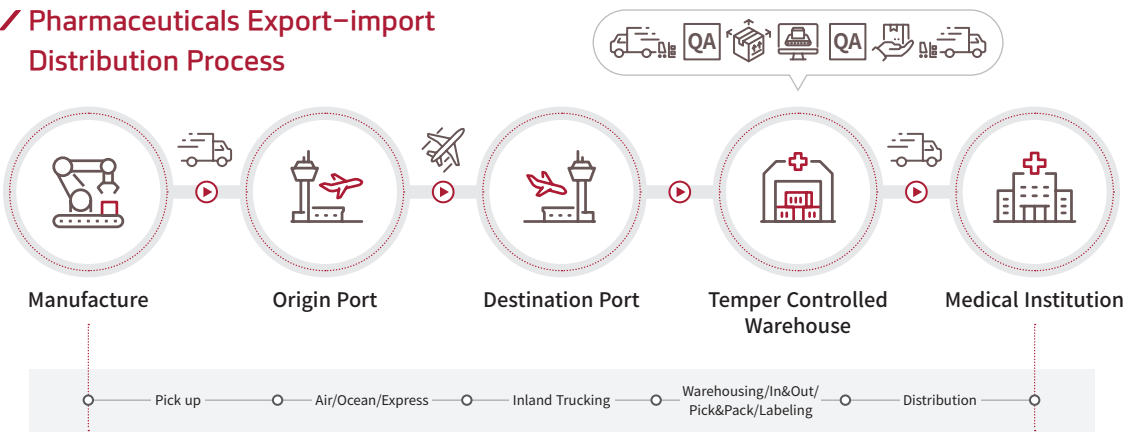
Freight Forwarding and W&D

[/ [International Freight Forwarding] Various Shipping Mode Options

In today's competitive healthcare market, we should clearly identify the advantages and disadvantages of multiple transport mode solutions to get leverage of the individual transport mode. Pantos Link4Healthcare can combine air, ocean, and express service and offer global transportation service optimized to customer's cargo characterization, lead time, and budget.

<p>Air Freight</p>	<p>Korea No.1 Air Export Yearly 122,000 TON</p>	<ul style="list-style-type: none"> · Securing air freight competitiveness & space stability by charter and BSA(Block space agreement) · GDP certified own healthcare logistics center · Quality assured with IATA CEIV Pharma* (*Center of Excellence for Independent Validators)
<p>Ocean Freight</p>	<p>Korea No.1, Global No.6 Yearly 1,530,000 TEU</p>	<ul style="list-style-type: none"> · Strategic partnership with major 60 shipping lines · Stable service with 40 years of operation experience · Professional operation competency for reefer containers
<p>Express</p>	<p>Korea No.1 Own network Door-to-Door Global Service in 220 Countries</p>	<ul style="list-style-type: none"> · Cost leadership based on global Integrated bidding system · Ample global express solution partners · Customer-centric optimal healthcare express solution & route consulting

[/ Pharmaceuticals Export-import Distribution Process



[/ [W&D] KGSP Certified Healthcare Specialized infrastructure

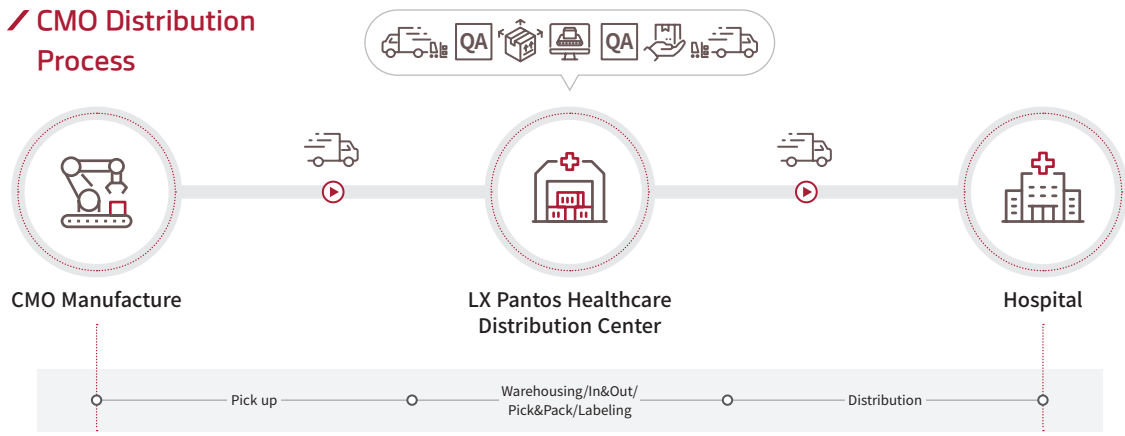
Cold chain logistics is not only focusing on international transportation but also warehousing and distribution for temperature-sensitive pharmaceuticals. Pantos Link4Healthcare provides the best healthcare distribution and storage service in Korea with KGSP certified storage and a dedicated system under in-house QA exclusive organization that considers the characteristics of each pharmaceutical items.



- Warehousing & Distribution**
- KGSP, ISO13485 licensed healthcare logistics HUB
 - Outsourced supply chain management service
 - Regional delivery HUB nationwide
 - Own networks of 350 units of temperature controlled delivery vehicles

- Value Added Service**
- (Serialization) Serial number scanning, issuing & inspection
 - (Aggregation) Bundle assembling & numbering
 - (Labeling) Classification & sub-assembly labeling

[/ CMO Distribution Process

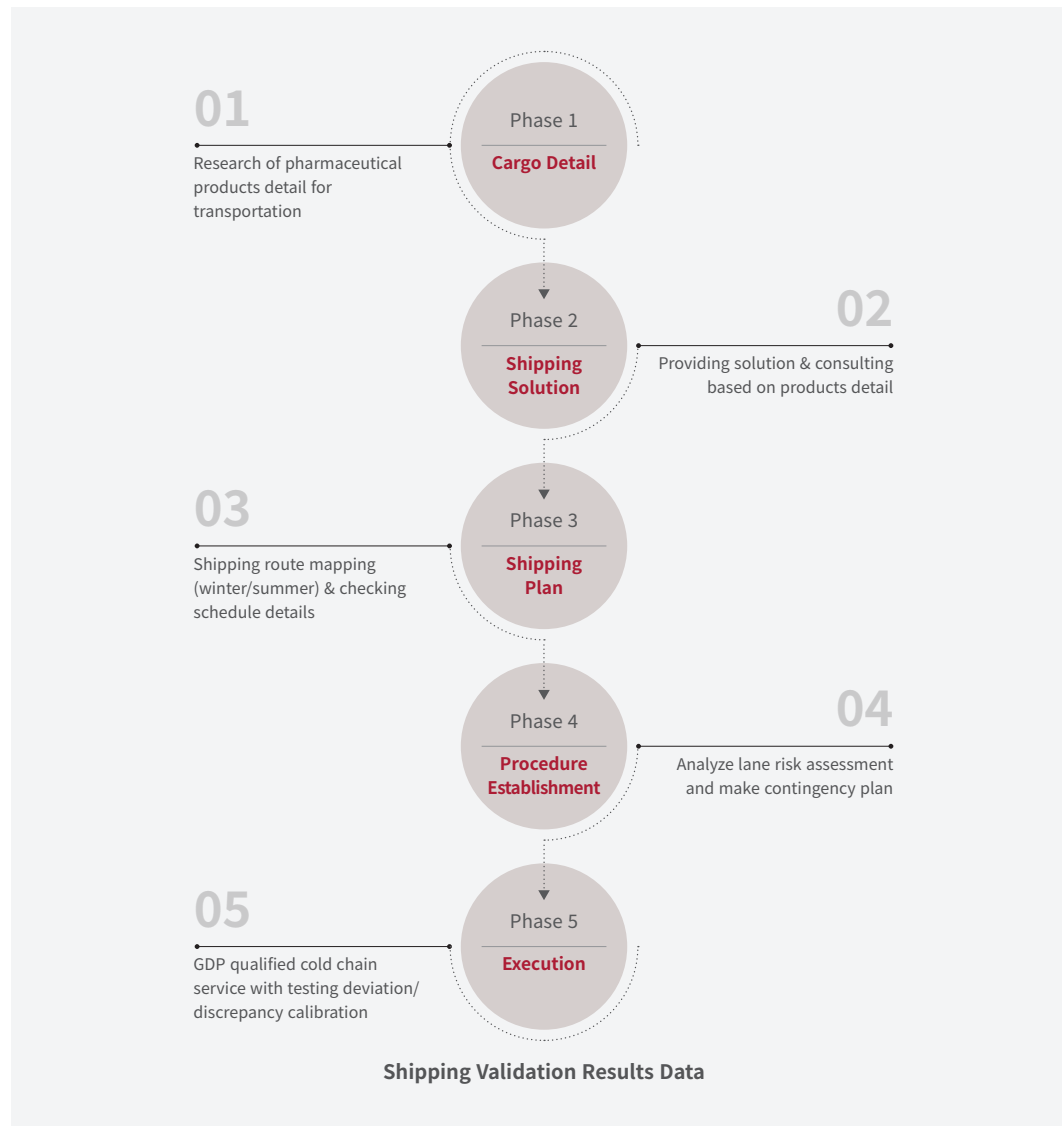


Solution Consulting

✓ [Shipping Validation]

Qualified LX Pantos Healthcare Experts will Design Shipping Route Consulting

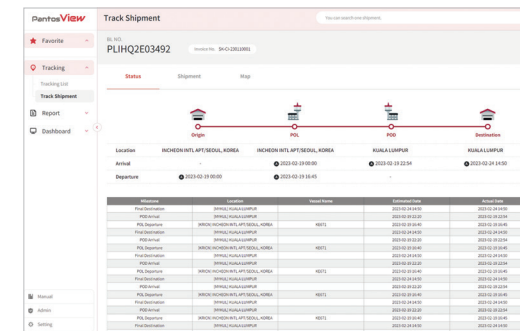
It takes a lot of time and efforts to verify the shipping route before new product launching. With over 40 years of expertise in international freight forwarding, LX Pantos fully designs and executes the most optimal shipping validation process by verifying the total cost, product stability, service quality, and packaging qualifications of various qualified shipping solutions.



✓ [Visibility IT System] PantosView

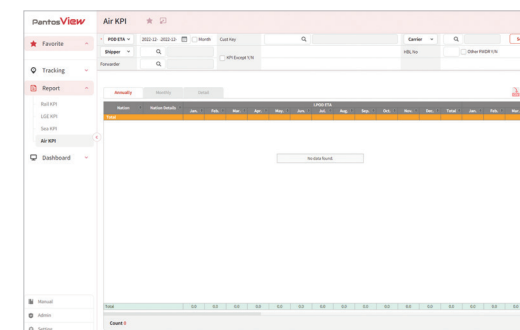
Minimizing the Risk by Agile Response to Unexpected Situation in Real-time.

The Pantos View system monitors perilous events that can occur in transit for sensitive healthcare products. 'Pantos View' collects GPS information from carriers and IoT devices to display cargo's current location on the map. Furthermore, it can control the overall risks in real-time from analysis of risk detected route, location, etc. Real-time tracking of cargo status data such as temperature, humidity, location, and shock provides information across the supply chain from loading to delivery of the products. This allows the customer to make quick decisions and prevent cargo loss or damage in advance.



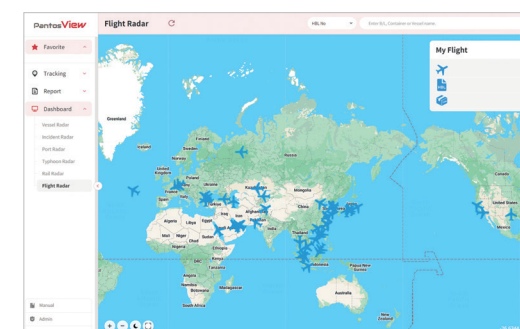
Real-time End-to-End Visibility

- Tracking information from shipment loading to final delivery
- Providing real-time alert of cargo status (Location, temperature, humidity, shock, etc.)



Customized Dashboard Service

- Design customer-centric visibility service
- Providing risk management reports by customer request



Air & Ocean Radar Service

- Real time location information of air craft/vessel
- Lead time analysis based on POL/POD status

Solution Consulting



[/ Cold Chain Packaging] Qualified Packaging Solution Consulting

Cold chain packaging solution is an essential element of any temperature critical healthcare products. Packaging system of Pantos Link4Healthcare is designed to maintain sensitive products at the proper temperature (ex. ambient, cold, frozen, etc.). There are two basic types of cold chain packaging solutions available: Active and Passive. Based on your specific requirements, trained Pantos Link4Healthcare team will design the most appropriate packaging solution from warm, cold, frozen to cryogenic to ensure solid transportation for the entire journey.














[Active Packaging Solution]

An active container packaging solution that secures temperature stability and improves container handling convenience by operating heating and cooling through power supply (AC Power and built-in battery) and cooling with dry ice for pharmaceuticals that must maintain critical temperature throughout the entire transportation.

[Passive Packaging Solution]

A passive packaging solution that transports pharmaceuticals which requires temperature maintenance in a certain range during the transportation by using their own refrigerants and packaging materials such as thermal blankets and passive container or box with high insulation, gel packs (PCM, VIP, etc.) and dry ice.

[Packaging Solutions by Temperature]

 CRT 15°C ~ 25°C Generic / Non-sterile Pharmaceuticals, etc.	 COLD 2°C ~ 8°C Vaccine, Insulin, Biopharmaceuticals, etc.	 FROZEN -15°C ~ -25°C / -25°C ~ -40°C Tissue, Vaccine, Plasma, etc.	 ULTRA FROZEN -70°C ~ -80°C Vaccine and more, etc.	 CRYO -160°C ▼ Cell/Gene Therapies, etc.
Container (RKN e1, RAP e2, RLP)				
Container (RKN t2, RAP t2) ※ Ambient temperature above set temperature only				
  				
Thermal Blanket				
Box (Water, Foam, Dry Ice, PCM, VIP)			Box (PCM, Dry Ice)	
Container (Water, Foam, Dry Ice, PCM, VIP)			Container (PCM, Dry Ice)	
			Limited Package	
			Cryogenic	
			Tank (Liquid Nitrogen)	
			Dewer (Dry Ice)	
  				
 				

Active Packaging Solution

Passive Packaging Solution

Service Quality Management System

✓ **[Quality Management System]** Established Reliable Healthcare QMS Process

'Quality' is the key factor in healthcare logistics service, to complete solid cold chain logistics service, especially for temperature-sensitive healthcare products, logistics providers should have powerful QMS(Quality Management System). Link4Healthcare QMS has been designed to prevent integrity of healthcare products from qualified device and system complying with certified operation process which meets international standards.

✓ **[Certification]** Quality Assured by Global Standards

LX Pantos has essential certifications for pharmaceutical logistics such as KGSP, IATA CEIV Pharma and quality process to meet international standards. Recently, we are the leading healthcare logistics company in Korea who has additionally acquired GDP certification which is a quality assurance system that covers healthcare requirements for purchasing, receiving, warehousing and international transportation for pharmaceuticals.



CEIV-Pharma
International Certification for Pharmaceutical air logistics Operation



GDP
Good Distribution Practice



ISO 13485
Medical Device Quality Management System



KGSP
Korean Good Supplying Practice



ISO 9001:2015
International standard for QMS

Pantos Link4Healthcare Designed to Meet Your Healthcare Business Request as Always.



Infrastructure

[/ Healthcare Logistics Center] KGSP and GDP Certified Healthcare Logistics HUBs



Incheon Airport Logistics Center
 · Pharmaceuticals (Biosimilar, etc) & Medical Device
 · Capacity: 8,350㎡ (9,800 PLT)



Seoicheon Logistics Center
 · OTC, Medical Device & Health Functional Food
 · Capacity: 14,965㎡ (15,000 PLT)



Ansung Logistics Center
 · Biopharmaceuticals (Biological product, etc.)
 · Capacity: 2,416㎡ (850 PLT)



Siwha MTV Logistics Center
 · Biopharmaceuticals & Medical Device
 · Capacity: 63,907㎡ (4,900 PLT)

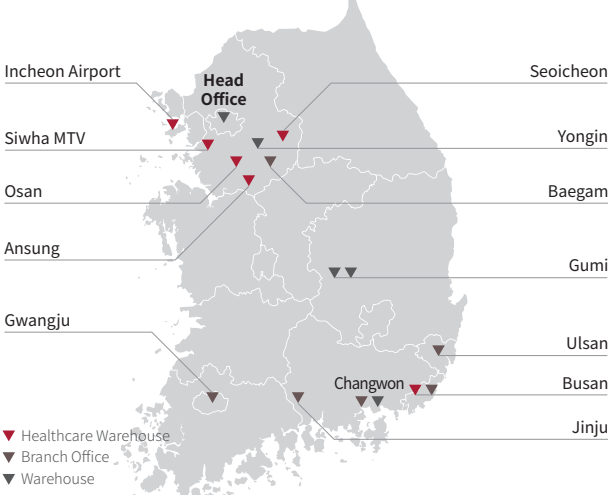


Osan Logistics Center
 · Biopharmaceuticals & Medical Device
 · Capacity: 25,620㎡ (2,700 PLT)



Busan Newport Logistics Center
 · Biopharmaceuticals & Medical Device
 · Capacity: 9,652㎡ (1,600 PLT)

[/ Own Healthcare Networks in Korea



LX Pantos is creating a new paradigm in pharmaceutical logistics with various valuable healthcare customers.

Best Practice

[/ Cold Chain Pharmaceutical Relief Supplies Transportation to Ukraine

As one of the most representative logistics providers in Korea, LX Pantos actively participates in social sharing activities in cooperation with government authorities and international organization by establishing operation systems in the disaster and procurement sector. With our in-depth knowledge and strategic partnership, our global healthcare team successfully shipped about 25 tons of relief supplies, including temperature controlled antibiotics and medicines, via Poland to Ukraine in July, 2022.



- The logistics provider of the *KOICA under the umbrella of the Ministry of Foreign Affairs
- Successfully delivered temper controlled pharmaceutical relief item needed accuracy and promptness

*Korea International Cooperation Agency

[/ COVID-19 Vaccine Transportation by Nationwide Cold Chain Network

LX Pantos established a nationwide healthcare distribution network with proven cold chain service prior to strengthen temperature management regulation such as biological by the Korean Ministry of Food and Drug safety. Based on this, we ensure a nationwide cold chain process & execution team, and accomplished COVID-19 vaccine transportation service which required to secure minus 20 degree in transit. With this achievement, LX Pantos' healthcare cold chain service know-how and superiorities have been recognized worldwide.











- Distribution COVID-19 vaccines through preemptive response to revised government biological regulation
- Real-time cold chain temperature monitoring throughout entire transportation journey

LX Pantos at a Glance






✓ LX Pantos Delivers Higher Customer Value that Goes Beyond Logistics Service to All Our Customers

We aim to generate higher customer value by connecting people around the world and linking time and space, while always turning possibilities into opportunities. LX Pantos is a leading logistics service provider in the global market. In our business, customer satisfaction comes before anything else. We are relentless in our effort to provide the optimal services that every customer requires. Today, about 10,000 logistics experts at LX Pantos are passionately working towards ever-greater service innovation for customer at our 360 networks across the globe. LX Pantos is the Korea's leading global logistics company handling more than 1.53 million TEU of ocean cargo and 122,000 Tons of air cargo annually.

✓ LX Pantos Company Overview

Established more than 40 years logistics experience		Revenue as of 2022	
 in 1977		 8.8 Billion USD	
Global Network  360 Networks in 40 Countries	Employees  10,000 People	Global Customers  13,000 Customers	
Ocean Volume as of 2022  153 Ten thousand TEU	Air Volume as of 2022  12.2 Ten thousand TON	Warehouse as of 2022  355 Ten thousand m ²	

✓ LX Pantos Business

				
Freight Forwarding · Ocean · Air · Rail · Express · e-Commerce	Warehouse & Distribution · Sales · SCM · VAS · Over 250 Global Logistics Centers	Industry Expertise · Life Sciences/ Pharmaceuticals · Electronics, Chemistry/ Energy · Automobile, Machinery/ Equipment · Consumer goods, etc.	SCM Consulting · Warehouse Design · Delivery System & Cost · Transportation Network · Out Sourcing · Solution Consulting with System Analysis, etc.	IT Solution · Pantos View (Visibility) · Pantos Now (Digital Forwarding Platform) · OneCube (Air freight Open Platform)

✓ LX Pantos ESG Management

On the foundation of its ESG vision, 'Value Deliverer for People and the Planet,' LX Pantos sets four key approaches to ESG management; sustainable logistics for the environment, shared value with supply chain and communities for society, stakeholder value and pursuit of happiness, and responsible business management.

ESG Vision Value Deliverer for People and the Planet

Slogan Connecting the World Upholding the 'Value of Together'

Four Strategic Direction

- Environmental**
 **Planet Together**
 Greening our logistics
- Social**
 **Community Together**
 Achieving shared growth with partner companies and local communities
- Governance**
 **Responsible Business Together**
 Implementing Responsible management

People Together
 Respecting stakeholders & pursuing happiness

ESG Highlights

-  **EcoVadis Bronze Rating**
-  **Certified Green-Logistics Company**
-  **First-class rating of Certified Excellent Shipping Company and Shipper**