Smart Cockpit Solution

Providing New Experience Value Closer to “People” and “Car”

Technical Advantages

Complete Localized Development in China

Complete development in China from specification to hardware/software design.
Realization of total system solution for Smart Cockpit.

System Construction using High-Performance SoC

CPU 220KDMIPS
GPU 3.1TFLOPS, NPU 30TOPS

Multi Display (Large Screen, High Definition)

35.6 in	IVI (6K, 60Hz)	×1 *
12.3 in	Meter (1920×720, 60Hz)	×1 *
15.6 in	RSE (2560×1440, 60Hz)	×2 *
11.6 in	Control PAD	×1 *
Goggles	AR Display (1920×1080, 60Hz)	×1 *
9.3 in	IRMS (1920×400)	×1
7.0 in	CMS (HD)	×2

*6 displays drawn by 1 SoC

Comfort and entertainment	CDC with Hypervisor (IVI+Meter)	Peace of mind	Around View Monitor (Viewpoint Transformation)	Immersive experience	Content sharing across multiple displays (RSE)
	Linkage of City & Living Space		Passenger Status & Health Monitoring		3D Navigation
	Multimedia		System Integration (CMS, IRMS and cockpit linkage)		AR・VR (Spatial Experience with in-video Technology)
	Recurring Services				
	Skin beauty diagnosis		Home Monitoring		3D Launcher
	nanoe™ X		Pet/Luggage Detection		3D Car Model

CDC : Cockpit Domain Controller
IVI : In-Vehicle Infotainment
CMS : Camera Monitoring System
IRMS : Intelligent Rear Mirror System
RSE : Rear Seat Entertainment
nanoe™ X : Panasonic’s unique air purifying technology

***Site : Panasonic Automotive Systems (China) Co.,Ltd.**

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Applications

Total System Solution

System integration across wide range of products:
CDC (IVI + Meter) , CMS, IRMS, Camera, RSE, Control PAD.
Provide solutions considering China’s regulation and functional safety while utilizing high quality manufacturing technology.

Unique System Feasibility Technology

Realize stable system feasibility under concurrent execution of multiple applications.
Able to smoothly run high-load demanding APPs.
(ex. 3D surround views, games etc.)

HMI Design Matching China’s Preference

Advanced design driven 3D-UI.
Smooth interaction across multiple displays.

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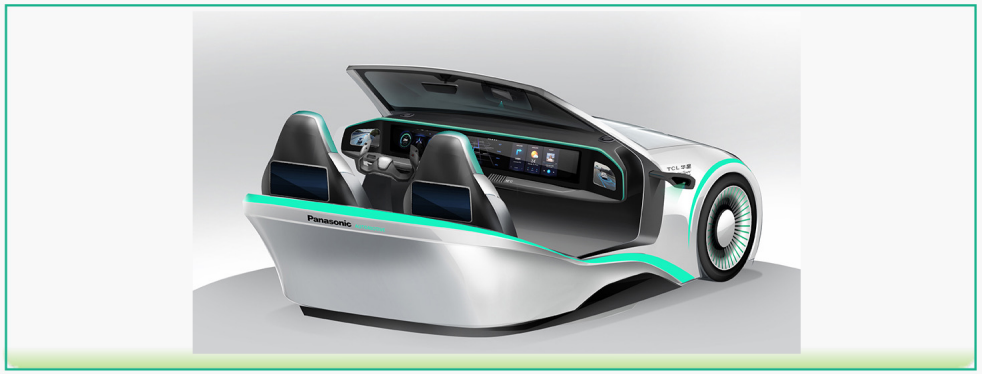
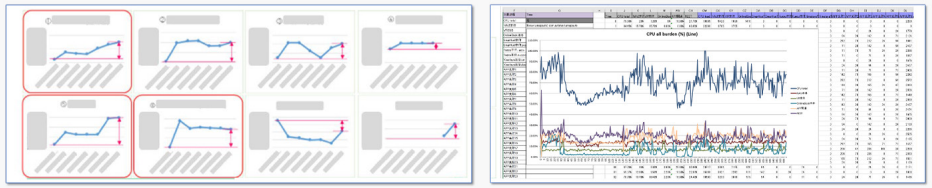
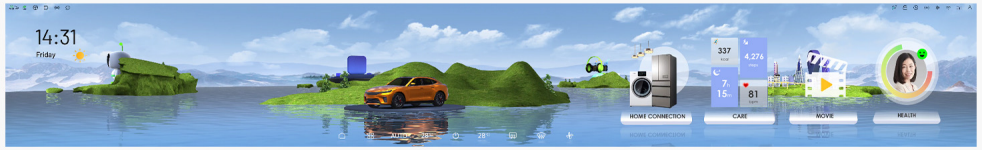


◆System feasibility technology (core technology for design and manufacturing thatensures the execution of multiple applications)

- Extracts the load status of each application to visualize CPU load/bus load



◆3D-UI that matches preferences of Chinese people



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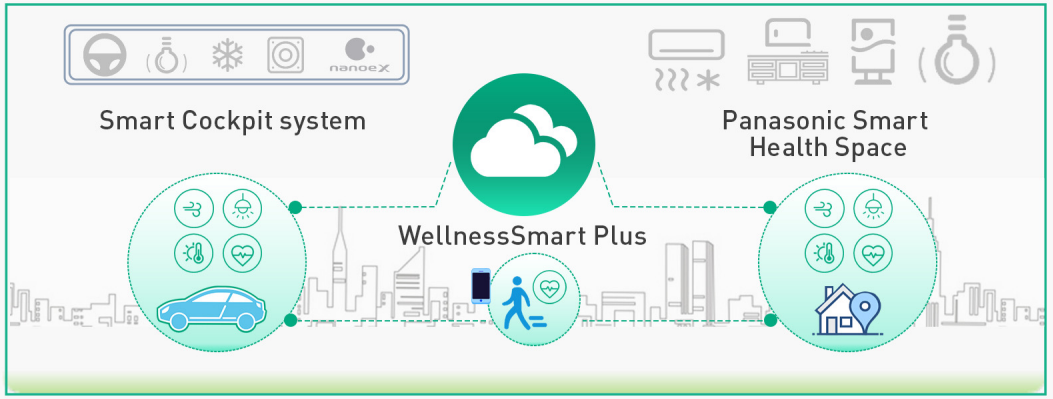
Benefits

Contribute to Evolution of Cars

Create new travel experiences by combining software with wide range of products.
Luxurious integrated cockpit design providing ownership joy & satisfaction.
Enrich cabin space with various APPs.
(Recurring services, VR/3D games, etc.)



Provide Value for Each Individual

Exciting user interface with large multi-display.
Realize comfortable travel space. (air quality improvement, skin condition diagnosis, home monitoring from car, etc.)
Seamless and stressless life experience by integrating with towns and cities.

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Relaxsonic, Car is my home

Collaborative analysis with Panasonic China Design Center.
Extract and define three personas that influence the value of the experience.