Hanwha Vision

H2 2023
PRODUCT PORTFOLIO

hanwhavision.eu

Hanwha Group

Hanwha **will continue to embrace bold challenges for a sustainable tomorrow.**

Founded in 1952, Hanwha continues to grow by quickly anticipating and responding to rapidly changing business environments with a balanced business portfolio that includes aerospace, energy & materials, finance and retail & services. As of 2021, we are the seventh largest business enterprise in South Korea and a Fortune Global 500 company.

Hanwha has become a global leader in a number of industries thanks to its culture of innovation, focused on breakthrough technologies, and sound financial structures.

Sales
2021

69.3 KRW Trillion

Business Enterprise in South Korea
Total asset basis, as of end of 2021

TOP 7

Years of History
Founded in 1952

Ranking on Fortune Global 500 in 2022

70

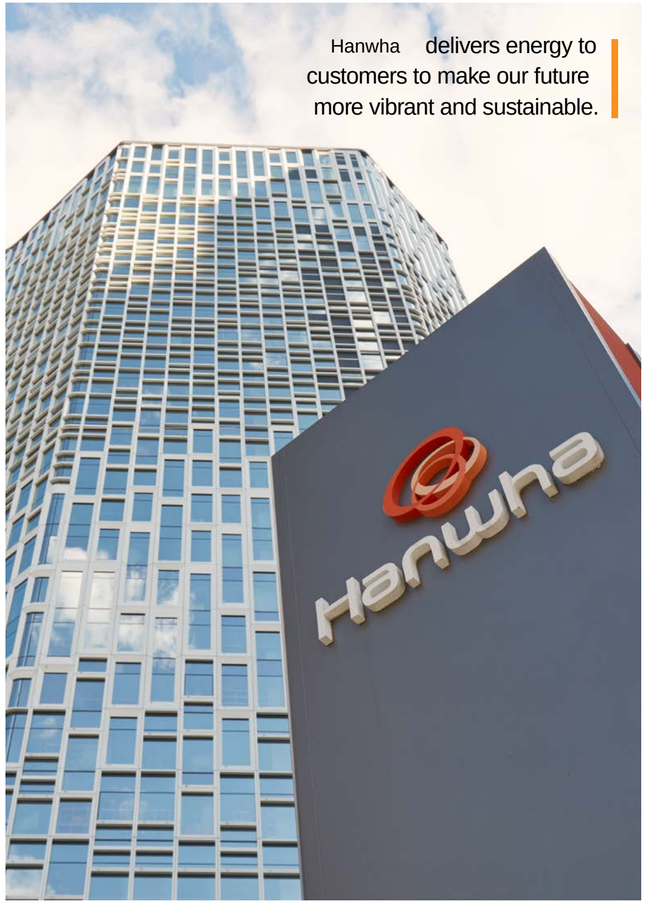
Domestic affiliates
As of end of June 2022

306

Global Networks
As of end of 2021

93

616



Global vision solution provider

Over the past 30 years, we have established ourselves as a global video security specialist with world-class optical design, manufacturing, and image processing technology .

We have been ensuring safety and peace of mind around the world and across society with outstanding products and solutions and industry-leading cyber security.

Our growth and innovation started with our customers' needs. This began with their desire to improve safety and security, now evolving to answer wider business opportunities and challenges. Ultimately, all our solutions enable our customers to reach their goals.

Our investment in innovation and continually pushing the boundaries of what's possible in video is core to our competitiveness. Ensuring we leap ahead in vision solutions.

History

2023.03 - Changed company name to ' Hanwha Vision '
Declared a leap toward being a vision solution providerLaunched IP audio system
2022 - Launched the X AI camera series
2021 - Launched AI NVR and AI integrated solution
- Developed AI-based infectious disease response solutions
2020 - 30th anniversary of the video security business
- Launched the P AI camera series
- Launched Winsenet 7 SoC, a camera series with
Wisenet 7 SoC acquired UL CAP (UL Cybersecurity Assurance Program)
2019 - UK Government official cybersecurity certification
- Acquired 'Secure by Default'
- Launched the world's first 55x IR PTZ camera
2018 - EstablishedHanwha Techwin Vietnam manufacturing corporation
2017 - Wisenet 5 SoC and X camera series launched
Acquired CES, a UK Government cyber security certification
2016 - Establishment of Hanwha Techwin Middle East FZE
2015 - Launched Hanwha Techwin
2013 - Wisenet 3 SoC and camera series with Wisenet 3
SoC are launched
2012 - Launched the world's first 37x IR PTZ camera
2009 - Establishment of Hanwha Techwin
Tianjin and Shanghai
2008 - Launched the world's first 37x PTZ camera
2005 - Developed advanced intruder automatic
location tracking system
2004 - Developed Winner 3 Analog ISP chip
2001 - Establishment of Hanwha Techwin Europe
1997 - Launched the world's best ultra-low illumination video surveillance camera
1993 - Developed Korea's first Auto Iris lens for CCTV
1990 - Started video surveillance business, establishment of Hanwha Techwin America

R&D power

The R&D headquarters, located in Pangyo Techno Valley, Gyeonggi-do, is the central axis of Hanwha Vision 's global R&D. Here, we develop and test various vision technology solutions before rolling them out commercially.

In 2022 Hanwha Vision established an Innovation Center in the US, with the remit of developing key technologies of the future, such as AI and cloud. Eventually we see these becoming two of Hanwha Vision 's core competencies.

Alongside these efforts, we have established a global AI R&D organisation across our headquarters, the US R&D Centre, and our AI data lab. This secures our AI full stack capabilities, from AI strategy to data processing, commercialisation, and future development.

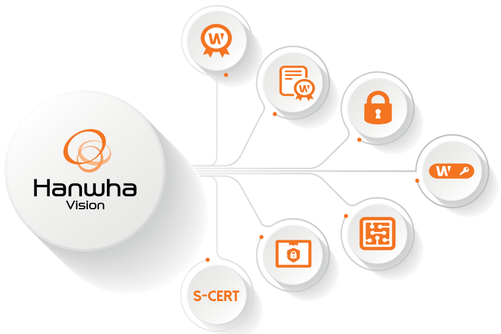
This accelerates our R&D to give Hanwha Vision sustainable competitiveness in an ever-changing market.

High-tech Powered in Vietnam

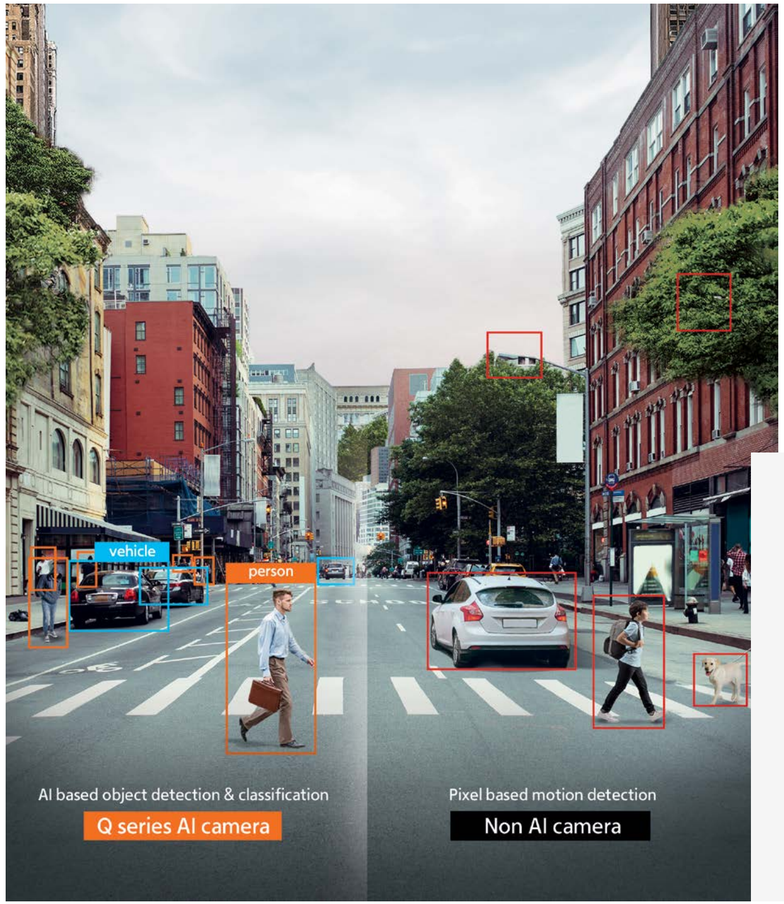
Hanwha Vision 's manufacturing subsidiary in Vietnam (HVSV) was established in 2018 in order to expand its global production capability as well as to strengthen cost competitiveness. Through automation and smart systems, Hanwha Vision has built sophisticated and fast-moving manufacturing lines producing all its product line-ups including cameras and storage devices. All products produced in HVSV go through a reliable manufacturing and quality assurance process and are sold globally, these products represent 85% of Hanwha Vision 's total sales.

End-to-end Cybersecurity

Hanwha Vision offers cybersecurity with the industry's highest levels of cybersecurity policy with secure boot/OS/storage, a signed firmware/open platform app, secure JTAG and more.
Hanwha Vision established its own device certificate issuing system to embed certificates into the product not only in the development progress but also in the manufacturing progress.



- Hanwha Vision Private Device Certification Root CA
- UL CAP, TPM 2.0 (FIPS 140-2)
- Secure Boot, Secure Storage, Secure OS
- Secure Open Platform
- S-CERT : Security Computer Emergency Response Team
  Please contact S-CERT by e-mail (secure.cctv@hanwha.com)



Q series AI Camera

Affordable cameras series with built-in AI

Increased accuracy of video analytics through people and vehicle detection

· AI based object detection (Person, Vehicle)
· WiseNR, SSNR, WiseStream III

Q series AI

419 & 5 419 & 5
412 & 5 412 & 5
419 & 5 419 &
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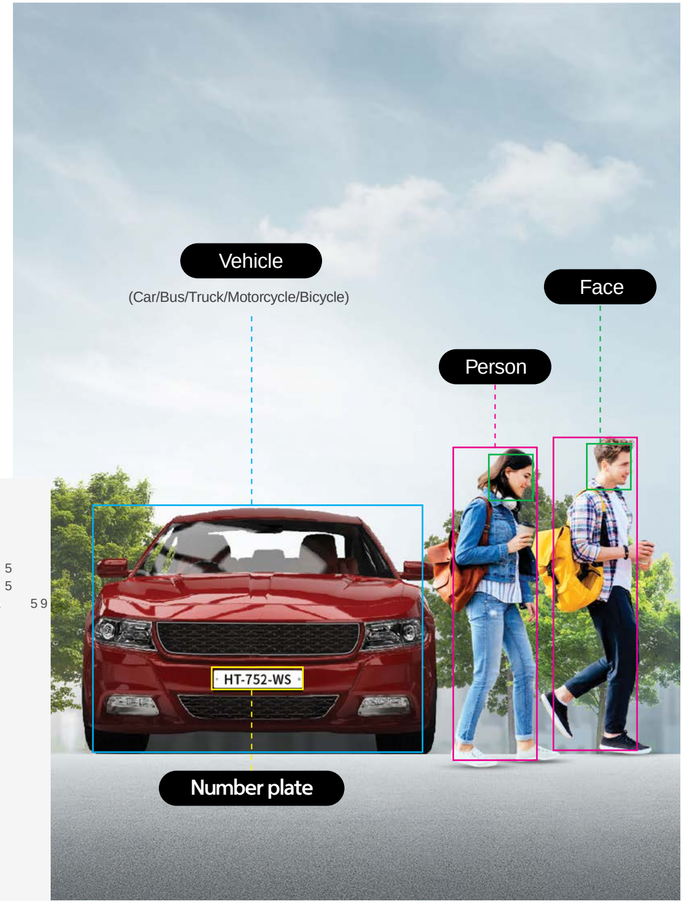
X series AI camera

X Plus·X Core lineup

AI-Enhanced X series Cameras

Object detection | Edge-based business intelligence | Improved image quality | Next level cybersecurity | User convenience | Reinforced durability

Featuring Hanwha's advanced artificial intelligence (AI) and deep-learningtechnologies, the new X series cameras offer industry-leading AI-based object detection for false alarm reductionz, AI-enhanced image quality and edge-based business intelligence.



X PLUS

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X Core

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P series AI Camera & NVR

Precise Object Detection & Classification with AI

Person | Face | Vehicle | License plate | Gender | Age range | Colour of clothing | Face mask | Glasses/Hat/Bag | Vehicle time and colour

Equipped with a powerful artificial intelligence (AI) engine that detects and classifies people and vehicles in real time, P series AI cameras are designed to accurately capture the unique attributes of objects such as faces and number plates, whilst reducing false alarms caused by waving trees, video noise, and even shadows. It enables operators to quickly and efficiently search for specific events or objects with defined attributes.

AI Camera Series 4K 2MP

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31' $ 59 $ 59 31' $ 5) $ 5)
31% $ $
6HH PRUH RQ 3

AI NVR Series

351 '% %
351 % % %
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AI Cameras

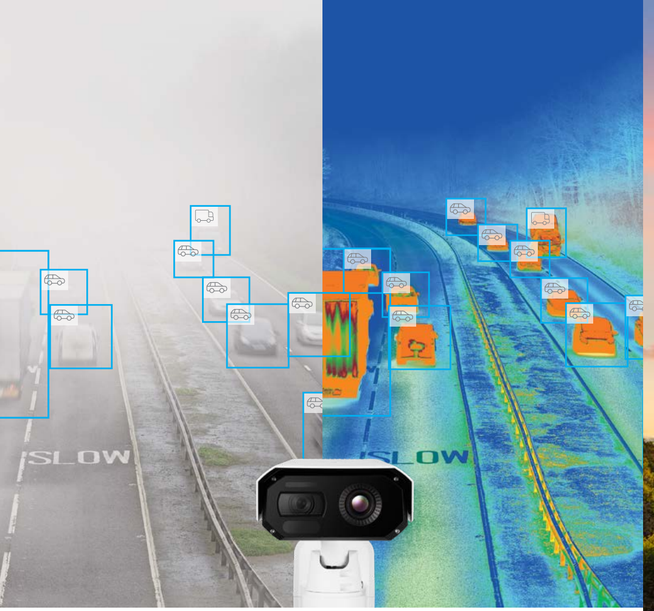
Detect and classify objects real-time

VMS Plug-in for improved AI search

AI Search

Quickly search based on attributes

3HUVRQ IDFH YHKLFOH QXPEHU SODWH LQV RIIHU VHDPOHVV LQWHJ
ZLWK 906 IURP 0LOHVWRQH DQG *HQ



Bi-spectrum AI Thermal Camera

TNM-C4960TD/4950TD/4940TD

Accurate AI–based object detection on the edge

- Ideal for traffic monitoring with accurate AI-based object detection and classification including Person, Vehicle (car/truck/bus/bicycle/motorcycle) and Licence Plate
- Intelligent traffic video analytics – stopped vehicle, wrong direction, traffic jam detection and vehicle counting
- Bi-spectrum multi-channel : VGA thermal & 8MP visible sensor
- 3 camera models to suit different fields of view
- NEMA TS2 (2.2.8, 2.2.9) Traffic Control Applications Standard compliant

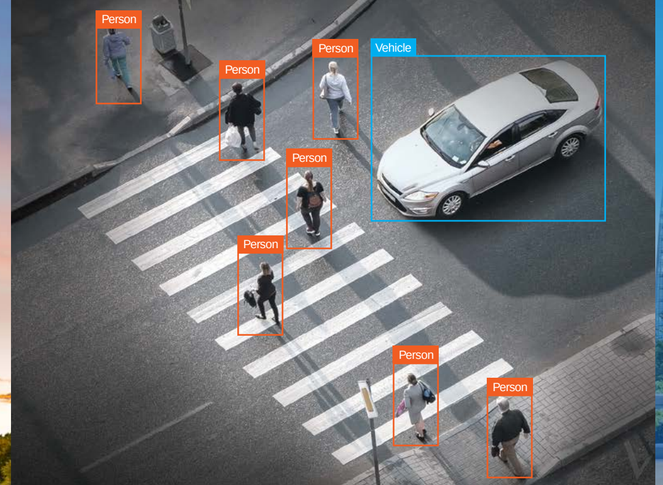
Road AI High Speed Camera

Intelligent edge–based ANPR with Make, Model, Colour & Type analytics

TNO-7180RLP

FEATURES:

- Edge-based ANPR solution with Make, Model, Colour & Type Recognition
- 3MP Global Shutter technology for clear images at high speeds
- Smart search & statistical insights into road usage by vehicle type, make and model



Meet our specialized cameras equipped with powerful AI

Select the best fit camera for your special safety needs

Bi–Spectrum

TNM-C4940TD,C 4950TD, C4960TD

Dual Lens

PNM-C12083RVD, C7083RVD

12X Zoom

XNV-6123R, XNO-6123R

X series AI PTZ Plus

XNP–C6403R

AI–based object classification and improved auto–tracking function

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)$O EDVHG HQKDQFHG LPDJH TXDOLW\
:LVH15,, 3UHIHU VKXWWHU :LVH6WUHDPOOO
),PDJH TXDOLW\ IRU QLJKW YLVLRQ ,5 P
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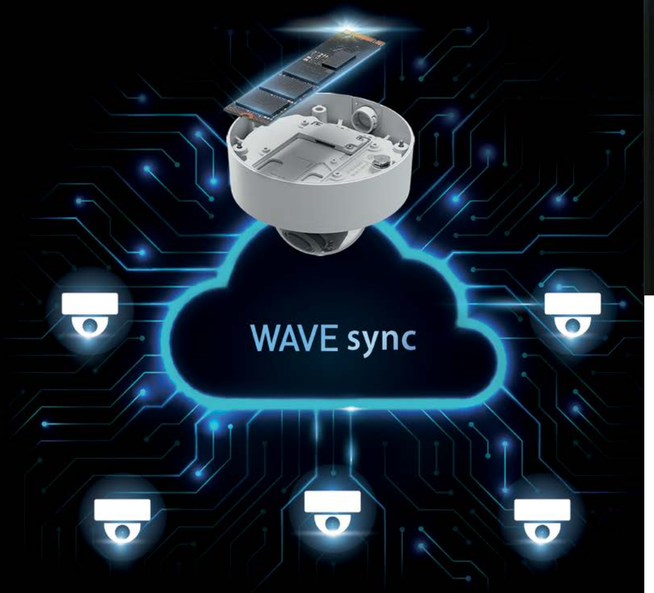
SolidEDGE: Serverless VMS On the Edge



- Edge-based VMS recording solution
- Cloud video management
- Supports up to 5 additional cameras

Touchless
Network Intercom Station

TID-600R

Touchless call as an essential post COVID-19 protocol

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Various mounting options for a greater versatility

:LWK PXOWLSOH PRXQWLQJ RSWLRQV FRYHUV DQG VNLQ LW ILWV SHUIHFWO\ ZLWK LWV VXUURXQGLQJV

INTEGRITY

Acting with integrity in everything we do, as individuals and employees

CHALLENGE

In the pursuit of excellence through change and innovation