

HIKVISION



Tech for a Better World

Hikvision's ESG E-book



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Preface

The evolution of human civilization is intricately linked to the progress of technology. From the early stages of utilizing fire and primitive tools to the inventions of steam engines and internal combustion engines, and from the use of signal lamps and carrier pigeons to the lightning-fast communication capabilities of 5G, the advancements have been nothing short of remarkable. The advent of the internet age and the emergence of cutting-edge technologies such as big data, cloud computing, and artificial intelligence have further accelerated this progress.

It is crucial to contemplate the significance of technological advancements as the pace continues to accelerate. What is the true purpose behind this relentless pursuit? How can technology better serve humanity and create a better world?

As a technology company committed to driving progress and exploring innovative applications, what specific contributions can Hikvision make to society? We believe this e-book will help readers learn more about how Hikvision strives to create a positive impact through a diverse array of innovations and initiatives.



ESG Management System

By integrating corporate social responsibility and sustainable development philosophy into our business, and driven by technological innovation, Hikvision is committed to being a well-respected global technology company. Combining with the Company's core competencies and the demands and expectations of different stakeholders, we have identified "Tech for a Better World" as the core of our ESG management and practices.

Hikvision has established a robust ESG management system that encompasses comprehensive information and report disclosure and facilitates continuous improvements. Following the "Plan, Do, Check, and Act" (PDCA) cycle, this system ensures that our ESG efforts evolve consistently and reflect our dedication to responsible and sustainable development.

Tech for a Better World



Tech for a Better World



Tech for thriving industries

Driving digital transformation with leading AIoT technologies, Hikvision empowers enterprises and other organizations in enhancing production security and improving operational efficiency, while supporting improved working conditions for employees.



Hikvision technology helps steel maker to improve employee safety and efficiency

Hikvision provided thermal imaging for blast stove monitoring at Angang Steel. Smart video devices and screens have enabled remote viewing of steelmaking. Advanced image processing shows molten steel dumping and desulfurization in high-temperature brightness, while the employees are protected from heat exposure.



Improving working conditions for port staff with smart video technology

Qingdao Port, one of the busiest ports in the world, collaborated with Hikvision on a smart tally system. AI-powered solutions at 84 cranes allow clerks to work remotely in temperature-controlled conditions. Meanwhile, tally operations become safer and more comfortable, raising loading efficiency by 200%.

Tech for an inclusive society

Hikvision is dedicated to leveraging AIoT and other advanced technologies to offer greater support to communities. We have developed a diverse range of products and solutions tailored to the specific needs of vulnerable groups, creating a smarter and more convenient environment.



Smart pedestrian crossing assists the visually impaired

In Nanning, Hikvision and the traffic authority established a smart pedestrian crossing system for the visually impaired with intelligent IoT capabilities. Special wristbands, text displays, lights, voice alerts, Red LED light curtains have aided 100+ visually impaired massage therapists working nearby cross the road more safely.



Multi-classroom opens a window for students in mountainous areas

Hikvision enabled multi-classroom learning at Jiazishan primary school in northern China's mountainous region. The smart solution connects rural students with urban peers for interactive online lessons, which will benefit 20,000+ students at 100+ mountain schools.



Protecting vulnerable clients in residential care facilities

Hikvision worked with Kepler Vision Technologies to provide an innovative solution for protecting vulnerable clients in residential care facilities. Instead of constant video monitoring by a person, the solution analyzes video images and sends alerts only when clients need help.



Invisible lifeline keeps teenagers away from drowning

Yichun City partnered with Hikvision for a citywide drowning prevention platform. It identifies risks with smart sensors, monitoring high-risk areas in real time and, uniquely, it gives voice alerts to children and teenagers. The platform has deterred 100,000+ people from dangerous waters.

Tech for livable cities

At Hikvision, we are dedicated to expanding intelligent applications to improve city operations and management. We help create high-quality public services, smooth traffic flow, and livable environments, thus bringing more possibilities for healthy and joyful lives.



Intelligent utility networks improve city operations

Gas, drainage, bridges, heating and electricity are "urban lifelines". Hikvision's utility platform gathers real-time data, enabling a closed-loop process for sensing, monitoring, warning, response, and supervision. It contributes to the healthy operation of utilities, while aggregating and displaying relevant data.



IoT technologies facilitate hydrological management and flood prevention

Zhejiang Hydrological Management Center formed a joint lab with Hikvision to build remote devices to track rivers 24/7, improving examination efficiency. Our water-level detection cameras and recognition algorithms gather data, preserving on-site images for validation. AR technology displays hydrological data in holographic format.

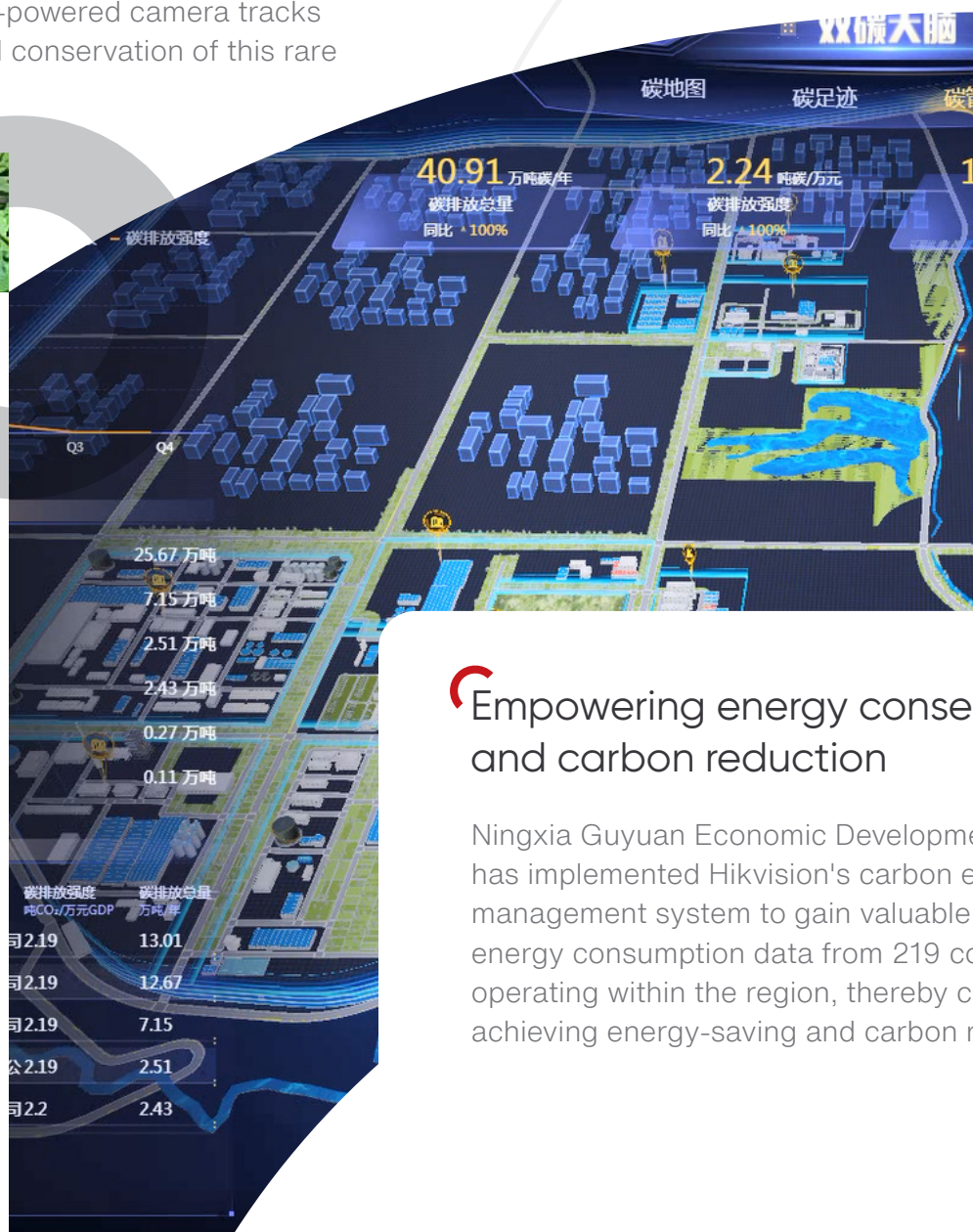


Protecting an endangered rare grape species with video technologies

Since 2021, Hikvision has collaborated with Beijing Songshan National Nature Reserve to safeguard the rare Baihuashan grapevine, of which only two exist in the wild. Hikvision's solar-powered camera tracks growth, aiding research and conservation of this rare species.

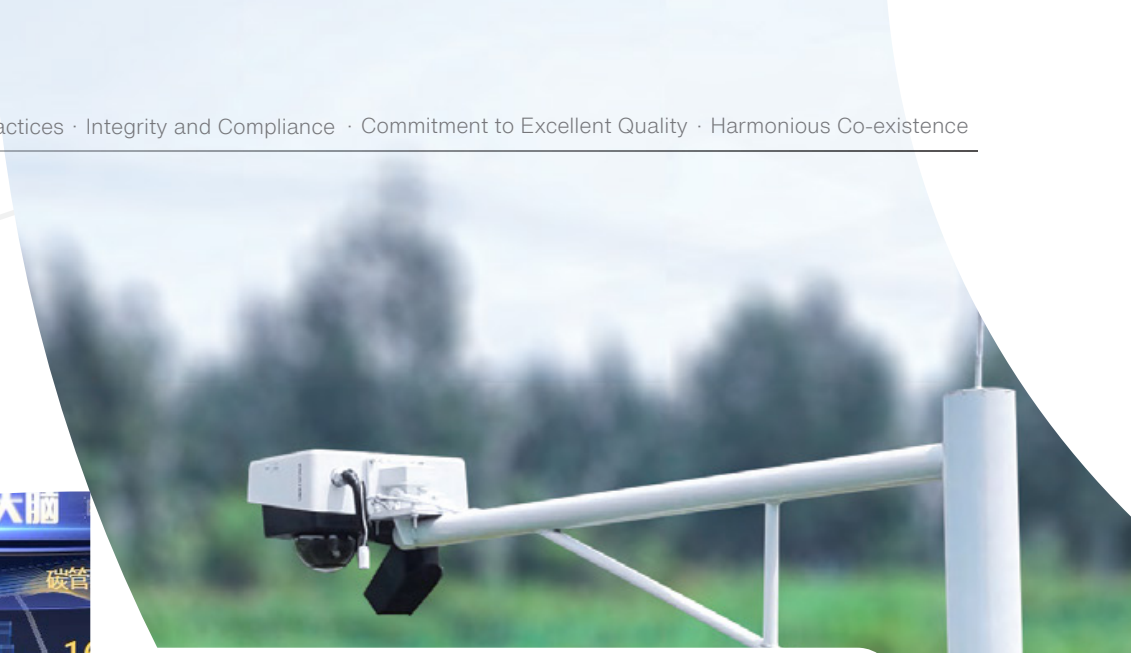
Tech for sustainable environment

Hikvision utilizes the power of AIoT to protect the environment, support low-carbon initiatives, and foster the harmonious coexistence of humans and nature. Together with our partners, we will continue to explore innovative approaches to sustainable development.



Empowering energy conservation and carbon reduction

Ningxia Guyuan Economic Development Zone has implemented Hikvision's carbon emission management system to gain valuable insights into energy consumption data from 219 companies operating within the region, thereby contributing to achieving energy-saving and carbon reduction goals.



Detecting water quality with a beam of light

A branch river in the Yellow River Basin was heavily polluted. In 2022, Hikvision installed a software platform to integrate data and help track changes, identify pollution and support environmental improvement programs. Sixteen Hikvision monitors were installed that measure key parameters in 20 seconds.

STAR Program for Social Good

Hikvision's STAR Program for Social Good aims to provide cutting-edge technologies that help non-profit organizations and projects explore innovative ways to benefit communities and protect our valuable nature and culture. Let's work together to create a better world!



Protecting migratory birds and wetlands with AIoT technology

Hikvision has contributed video perception equipment at the Dongtan Reserve, a vital migratory bird habitat at the mouth of Yangtze River mouth. This helps the conservation teams keep a constant eye on the breeding areas and support the visiting populations.



Hikvision technology makes a difference in saving endangered species in Sumatra

Working in partnership with PT ABT and WWF Indonesia, Hikvision employs cutting-edge technologies to aid Sumatra's endangered species. ColorVu technology, thermal- and solar-powered cameras, and advanced algorithms are deployed to improve the conservation work.

Green and Low-Carbon Development



Green manufacturing

As a company with a global reach, we know that even the smallest changes in our manufacturing processes can make a big difference. That is why we continue to research best practices to reduce waste and minimize footprint.

Cleaner energy

To increase the proportion of clean energy we use, in 2022 alone, Hikvision purchased 32,852 MWh of green energy, including solar, wind and hydro power, and generated 4,508.3 MWh of photovoltaic power by ourselves. In our Tonglu Manufacturing Complex, 9.118 MW of rooftop solar panels have been installed, with an expected annual power output of 8 million kWh.

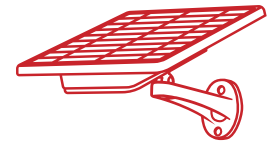
Cleaner materials

Wherever possible, we use clean materials in the manufacture of our products. For example, we use a no-paint process to minimize wastewater and volatile organic compound (VOC) emissions when producing our speed gates and turnstiles.

Greener packaging

Hikvision maximizes the use of eco-friendly materials in the product packaging. Using folded cardboards instead of expanded polyethylene to cushion the interior of product packaging reduces our plastic use by approximately 27.9 tons per year.

Photovoltaic
Power Generation
4,508.3 MWh



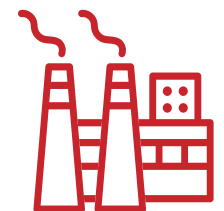
Excessive Emission /
Discharge and
Chemical Leakage
0 incidents



China Energy Conservation
Product Certification
30,300 product units
An increase of 6% over 2021



New Suppliers Screened
Using Environmental Criteria
100% coverage



Green operations

Sustainability concepts are at the core of Hikvision's daily operations around the world.



Smarter energy consumption

AI-powered sensors detect the presence of people in our meeting rooms and automatically turn off lights and air conditioning when a room is empty. Thanks to intelligent energy management, Hikvision's energy consumption per unit of revenue continues to decrease over the years.



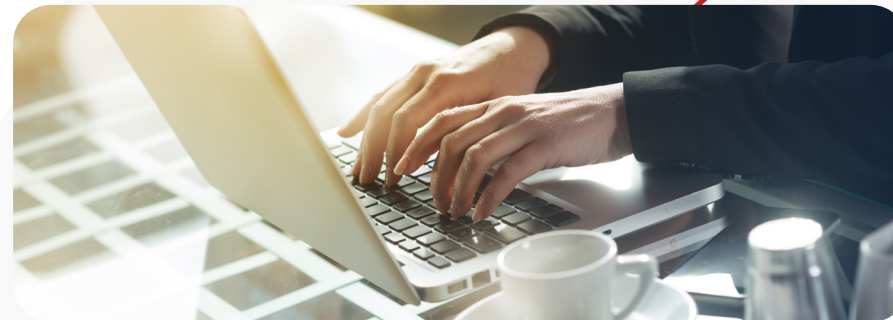
Sustainable water use

When we design and build our office parks, we control the total amount of stormwater runoff and improve the way stormwater is recycled and reused for landscape pond replenishment, road washing, sprinkler irrigation, and more.



Cloud-based R&D platform

Providing 4,200 virtual machines on 500 computing service nodes, Hikvision's R&D cloud platform cuts electricity consumption by nearly 5,000 MWh and carbon emissions by nearly 4,000 tons per year.

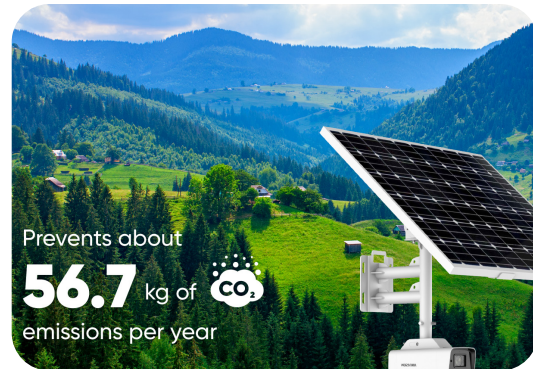


"Green Office" initiatives

We are implementing a paperless office philosophy. Where possible, meetings are held online and printed materials are replaced by their digital equivalents. We also launched a new business travel platform that promotes low-carbon mobility and hospitality.

Green technologies

Hikvision prioritizes and continues to implement technologies that optimize the energy consumption of the products, incorporating green thinking into technological innovation.



Solar-powered video security

By eliminating the need for an external power supply, our Solar-powered Security Camera uses approximately 80 kWh less electricity per year. As a result, a single camera can prevent about 56.7 kg of CO₂ emissions per year.



Maximum performance on minimal power

We continue to optimize power consumption, too. For example, select Ultra Series Network Cameras feature a low-power mode. The camera continues to operate, but only captures images when events occur, saving enough energy to charge around 2,100 smartphones per year.



Energy-efficient DVR for the future

The eDVR Series is another leap forward. Thanks to eSSD technology, an eDVR reduces energy consumption by almost 45% over conventional DVRs. The energy saved in one year is equivalent to what is absorbed by a mature tree in the same period.



Sharper night vision and smarter lighting

DarkFighterS technology produces color images in ambient light as low as 0.0003 lux, significantly delaying the need for additional lighting. In darkness, users can set motion-triggered supplemental lighting instead of "always-on" lighting to reduce energy use while maintaining security.



Light up every moment with less energy

By simplifying the encapsulation with better dissipation, our LED displays with flip-chip chip on board (COB) can reduce power consumption by around 45% and screen body temperature by 5-10° C.

Green solutions

Ensuring a livable environment for all is a major challenge. That is why Hikvision seeks to provide greener solutions to help cities and communities achieve sustainability goals through concrete actions.

To date, Hikvision has launched more than 30 dedicated AIoT products and more than 200 deep learning algorithms for air and water quality monitoring, vehicle emission reduction, urban waste management, and other environmental protection applications.



Urban Waste Management



Vehicle Emission Reduction



Water Quality Monitoring

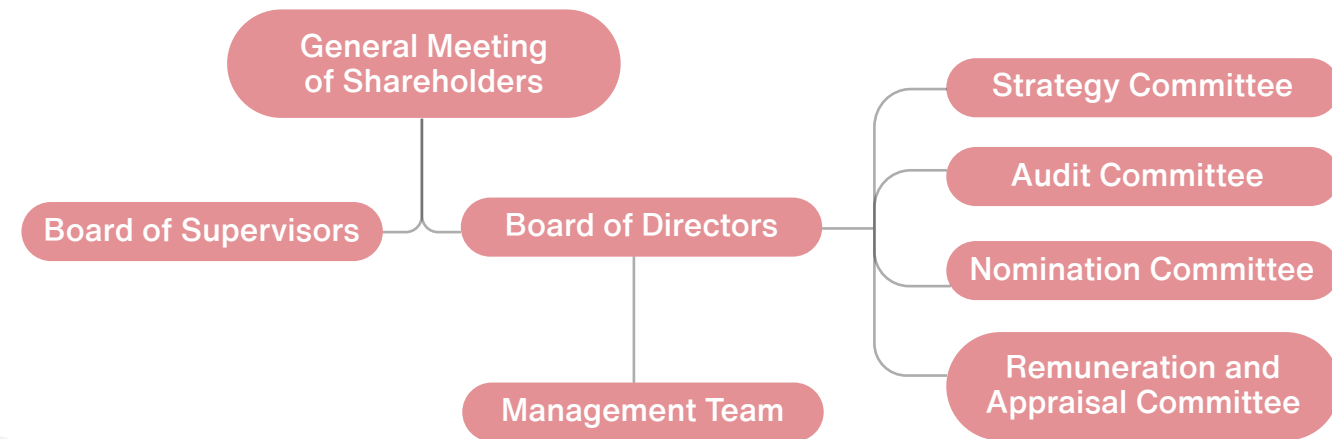


Air Quality Monitoring

Integrity and Compliance

Optimized corporate governance

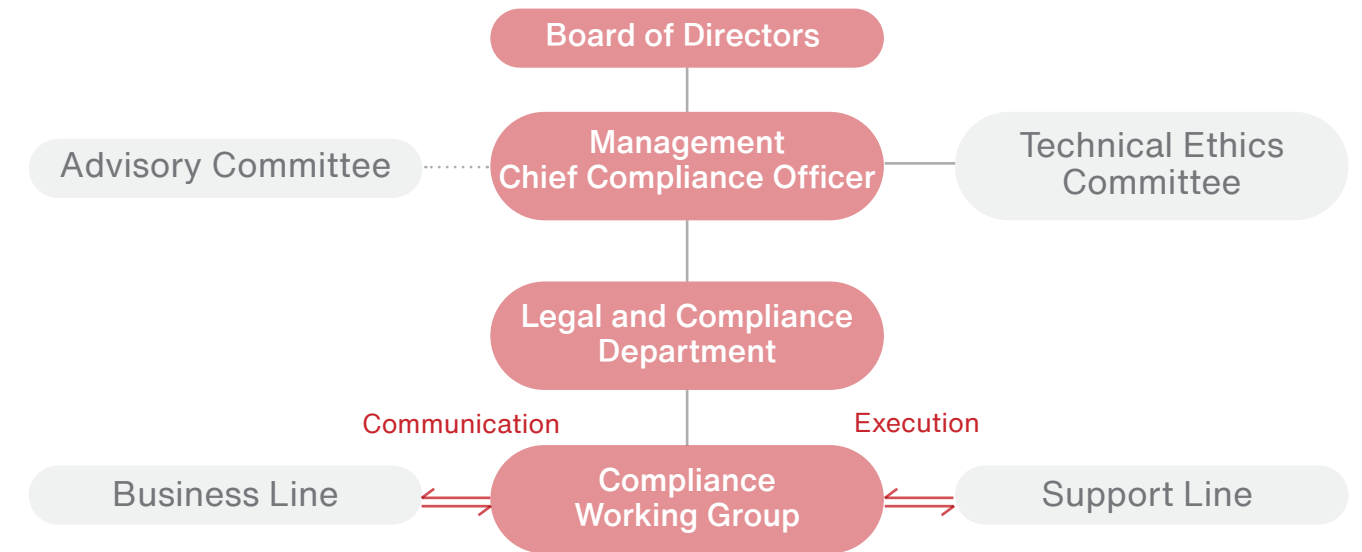
Hikvision is dedicated to fostering a robust and effective corporate governance system. With a diverse Board of Directors, we aim to establish comprehensive internal management regulations, promote standardized operations and enhance corporate governance. Our approach to corporate governance not only fosters Hikvision's sustainable growth but also enhances our capacity to make meaningful contributions to society.



Hikvision's Governance Structure

Improved compliance approach

Hikvision regards integrity and compliance as fundamental to our business operations. We have incorporated compliance into our global presence, encouraging each employee to adhere to the compliance requirements. At Hikvision, the Global Advisory Committee provides the management team with a broad scope of compliance insights and expertise, while the Technical Ethics Committee is set up to facilitate our practice of "Tech for a Better World".



Hikvision's Compliance Organization Structure

Commitment to Excellent Quality

Hikvision is dedicated to offering innovative and premium products and services our customers and society. By pursuing excellent quality, we contribute to sustainable development and create higher value for customers and society.

Ensuring product quality

We enhance our quality management system by cultivating a culture of quality awareness among all employees to provide reliable, premium products and services that exceed customers' expectations.

Driving technological advancement

Hikvision drives innovation and offers AIoT hardware, software and solutions. We provide customized solutions to address specific industrial scenarios, and advance technology to serve a larger population. Our innovations also help improve energy efficiency and reduce a customer's carbon footprint.

Leading cybersecurity

Hikvision prioritizes cybersecurity as a mission of utmost importance. We consistently enhance our internal management mechanisms, foster a cybersecurity culture, and establish industry cooperation ecosystems to enhance cybersecurity.



Harmonious Co-existence

We are dedicated to creating value for our customers, enhancing social welfare, establishing a robust foundation for our employees, and collaborating with partners to construct a harmonious and sustainable ecosystem.

Employer responsibility

We offer competitive compensation and benefits, foster diversity and inclusion, and invest in employee development with a comprehensive training system. In 2022, we invested RMB 17.226 million in employee training that prioritizes their physical and mental health and safety.

Partner responsibility

We are establishing a sustainable supply chain, evaluating 100% of new suppliers based on environmental and social criteria, and advocating for a green supply chain concept. Supplier response to a conflict minerals management audit reached 97%. Through an open ecosystem, we are promoting the exchange and sharing of technological achievements to accelerate partners' growth.

Community responsibility

Harnessing the continuous development of AIoT technology, we help customers create a safer and more convenient social and living environment. Since its launch in 2020, the Hikvision STAR Program for Social Good has partnered with 20 NGOs, initiating innovative collaborations and public welfare projects to engage employees in social services, encouraging them to support those in need.



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