ColorVu + X

Explore new possibilities with ColorVu technology

C + X

Beyond ColorVu

HIKVISION®

A Spectrum of New Possibilities with ColorVu + X

Hikvision's ColorVu technology helps users protect people and property by capturing high-quality, full-colour video 24/7. Now combined with Hikvision's other advanced technology ("X"), performance is elevated to the next level.

"ColorVu+X" delivers unmatched value to the security industry, with more product and solution options than ever. Cameras powered by these technologies render clear imaging with vivid details for video evidence, improved alarm accuracy for real security threats, and video search efficiency, taking security above and beyond what was previously possible. Versatile products and solutions are introduced with optimized performance to tackle common security concerns in residences, office buildings, parking lots and many more.

Cutting-Edge Hardware

Up to F1.0 large aperture and advanced sensors

State-of-the-Art Image Processing

Pioneering ISP technology generates precise colour to reveal clear, vivid images
Up to 130 dB WDR

Highly Reliable

Hikvision technology guarantees focus performance in the ultra-high-definition ColorVu-enabled products for superior quality.

ColorVu
Technology

ColorVu + Panoramic

The whole scene in vivid colour

A 180° view of bright, seamless panoramas and more details

ColorVu + Varifocal

Zoom in with vivid colour

Changeable focal lengths for more scenarios

ColorVu + 4K

Capture richer, more colourful details

Crisp and clear imaging along with fluid preview and playback

ColorVu + Live Guard

Proactive protection, day and night

Visual and auditory warnings on-site with real-time notifications

ColorVu + Deep Learning

Smarter detection around the clock

Taking alarm accuracy and search efficiency to a whole new level

ColorVu + Panoramic
The whole scene in vivid colour

HIKVISION

Challenges Large areas are extremely difficult to secure, often requiring multiple cameras to provide full coverage within a single view. With traditional cameras, monitoring these kinds of areas becomes even more difficult – if not impossible – at night or in low light conditions.

Solutions To address all of these challenges, Hikvision has integrated ColorVu into its industry-leading panoramic cameras, to stitch together images from two side-by-side lenses for a seamless, 180-degree horizontal view.

- Reduced equipment requirements (fewer cameras needed to cover large areas)
- Improved situational awareness without blind spots
- Every detail captured in full colour – even in the dark

Dual lens, fusion imaging

1 Pixel-level image matching

2 Brightness and color processing

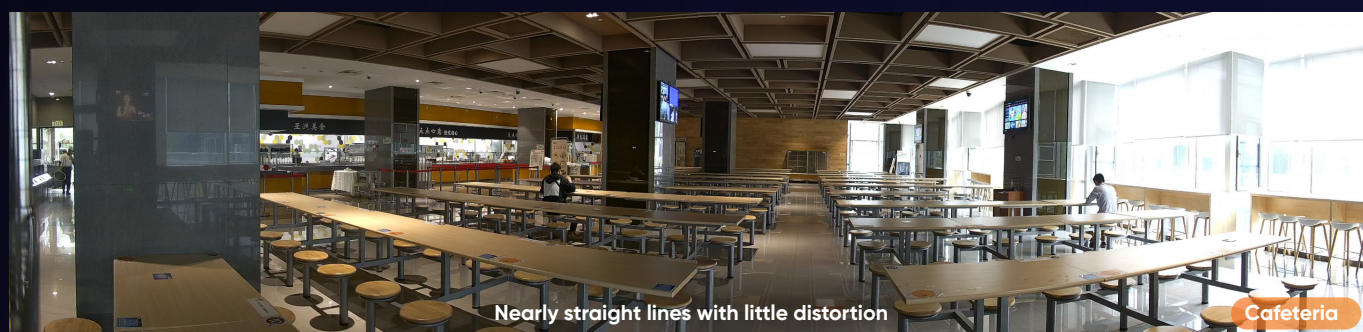**180° panoramic view, seamless imaging**

Left lens image

Right lens image

The seamless fusion of images in one shot

Nearly straight lines with little distortion

Cafeteria

Minor distortion near the edges of an image enables a view similar to that of the human eye

Urban Roadways

4K resolution with 180° field of view provides wider, clearer imaging with rich details, even at night

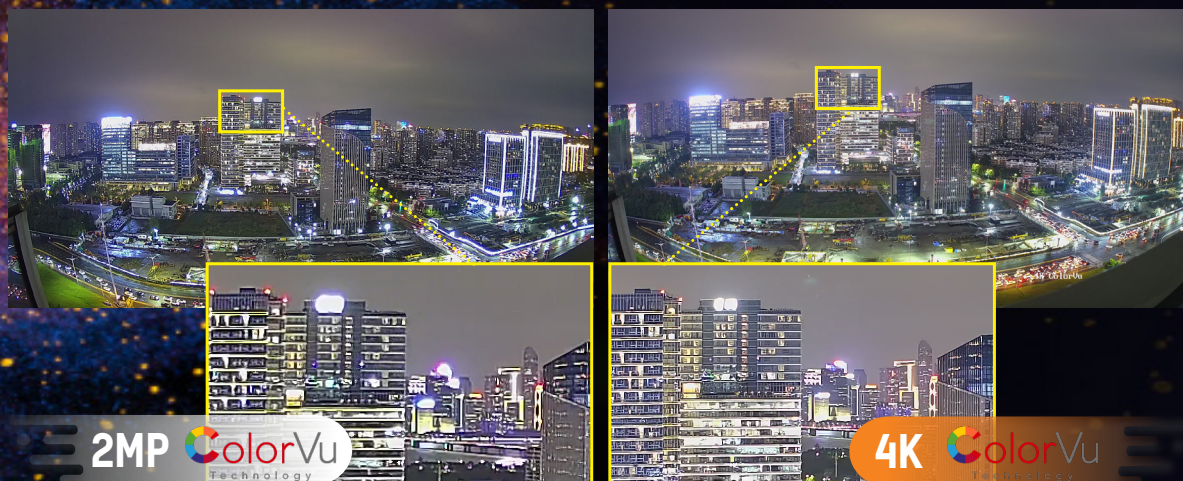# ColorVu + 4K
Capture richer, more colourful details

Challenges
Traditional cameras may lack the resolution needed to provide clear, full-colour video or imaging in lower light conditions.

Solutions
Hikvision has overcome this challenge by integrating ColorVu technology into advanced 4K cameras, delivering clear and crisp imaging, fluid footage preview and playback, and enhanced colour imaging in low light conditions and at night in outdoor areas.

The 4K resolution provides great details, especially suitable for open spaces and large scenes.

2MP ColorVu Technology

4K ColorVu Technology

ColorVu + Varifocal
Zoom in with vivid colour

Challenges
Historically, designing long focal length with large-aperture lenses was a challenge because correcting the optical aberrations and distortion that arise from large apertures requires complex designs. Therefore, most typical varifocal lenses are relatively small, and when focal length increases, the aperture becomes smaller. This way the lens may not let enough light in, causing darker imaging when the environment is not bright enough.

Solutions
Hikvision's self-developed varifocal lenses with ColorVu technology provide a fixed, large, F1.0 aperture in a compact form factor. The industry-leading design keeps the lens size just right for precise focus, reducing weight and consumer costs. ColorVu + Varifocal guarantees brightness and full colour as the camera zooms in and out.

Hikvision's proprietary fixed

F1.0 large aperture varifocal lens

T → F1.0

W → F1.0

Brightness unaffected while zooming in or out

ColorVu + Deep Learning
Smarter detection around the clock

Challenges Often, security systems are unable to differentiate between moving objects, such as falling leaves, heavy rain, and moving animals, versus real security threats, such as people breaching a site perimeter.

Solutions Hikvision has integrated ColorVu into its AI-powered cameras with AcuSense. These reliably identify real security threats, such as human beings and vehicles, and send alerts to security teams in real time. Meanwhile, false alarms are minimized, reducing workloads and costs and increasing efficiency. With ColorVu and AcuSense technologies, users get intelligent, proactive security, with high-resolution, the combination of colour video imaging.

Combining ColorVu and AcuSense technology allows users to receive human & vehicle alarms and to search human or vehicle events with vivid, colourful details, providing more reliable security.

ColorVu + Live Guard
Proactive protection, day and night

Challenges While most security systems can detect intrusions and other security incidents, goods and properties can still be lost or damaged before teams can respond.

Solutions Hikvision addresses these issues by integrating ColorVu technology with Live Guard sound and light alarms into selected camera models. While ColorVu technology captures detailed video footage of security incidents in high resolution and full colour, Live Guard visual and auditory warnings let trespassers know they have been detected, deterring them from entering a site or building. Notifications can also be sent to homeowners, business owners, or security teams in real time, supporting faster, more effective responses.

Simple and seamless integration with NVR and Hik-Connect

- 10 embedded + 3 customized audios to select
- Customizable audio recording and uploading via Hik-Connect
- Mute/unmute Live Guard notifications and alerts on Hik-Connect
- Turn on/off visual and auditory warnings with a few taps via Hik-Connect

Remote Configuration

Hikvision NVR

Network Connection

Camera with ColorVu and Live Guard

When the camera is added to Hik-Connect, it can be easy to mute/unmute notifications and alerts.

Hik-Connect App

Various Applications of Live Guard

Please leave the parcel at front door!

Private area! No parking!

Restricted area! Please keep away!

Welcome!

Mind the gap!

Residential   **Factories**   **Shops**   **Railway Stations**

Network Cameras with ColorVu

DS-2CD2387G2P-LSU/SL
4K **1/1.8''** Panoramic Turret Network Camera

- 0.0005 lux @ F1.0
- 2 x 1/1.8'' CMOS sensor
- 4 mm dual lens
- Colorful imaging 24/7
- Human/vehicle classification
- Strobe light and audio alarm
- H.265+/H.265
- IP67
- 130 dB WDR
- Built-in microphone
- and speaker
- Alarm I/O 1/1, audio I/O 1/1

ColorVu
AcuSense Technology

DS-2CD2T87G2P-LSU/SL
4K **1/1.8''** Panoramic Bullet Network Camera

- 0.0005 lux @ F1.0
- 2 x 1/1.8'' CMOS sensor
- 4 mm dual lens
- Colorful imaging 24/7
- Human/vehicle classification
- Strobe light and audio alarm
- H.265+/H.265
- IP67
- 130 dB WDR
- Built-in microphone
- and speaker
- Alarm I/O 1/1, audio I/O 1/1

ColorVu
AcuSense Technology

DS-2CD2747G2T-LZS
4 MP **1/1.8''** Dome Network Camera

- 0.0005 lux @ F1.0
- 1/1.8'' CMOS sensor
- 2.8 - 12 mm motorized vari focal lens
- Colorful imaging 24/7
- Human/vehicle classification
- H.265+/H.265
- IP67, IK10
- 130 dB WDR
- Alarm I/O 1/1, audio I/O 1/1

ColorVu
AcuSense Technology

DS-2CD2087G2-L(U)
4K **1/1.2''** Bullet Network Camera

- 0.0005 lux @ F1.0
- 1/1.2'' CMOS sensor
- 2.8, 4 or 6 mm fixed lens
- Colorful imaging 24/7
- Human/vehicle classification
- H.265+/H.265
- IP67
- 130 dB WDR
- -U: built-in microphone

ColorVu
AcuSense Technology

DS-2CD2387G2-L(U)
4K **1/1.2''** Turret Network Camera

- 0.0005 lux @ F1.0
- 1/1.2'' CMOS sensor
- 2.8 or 4 mm fixed lens
- Colorful imaging 24/7
- Human/vehicle classification
- H.265+/H.265
- IP67
- 130 dB WDR
- -U: built-in microphone

ColorVu
AcuSense Technology

DS-2CD2T87G2-L
4K **1/1.2''** Bullet Network Camera

- 0.0005 lux @ F1.0
- 1/1.2'' CMOS sensor
- 2.8, 4 or 6 mm fixed lens
- Colorful imaging 24/7
- Human/vehicle classification
- H.265+/H.265
- IP67
- 130 dB WDR

ColorVu
AcuSense Technology

DS-2CD2387G2-LSU/SL
4K **1/1.2''** Turret Network Camera

- 0.0005 lux @ F1.0
- 1/1.2'' CMOS sensor
- 2.8 or 4 mm fixed lens
- Colorful imaging 24/7
- Human/vehicle classification
- Strobe light and audio alarm
- H.265+/H.265
- IP67
- 130 dB WDR
- Built-in microphone and speaker
- Alarm I/O 1/1, audio I/O 1/1

ColorVu
AcuSense Technology

DS-2CD2T87G2-LSU/SL
4K **1/1.2''** Bullet Network Camera

- 0.0005 lux @ F1.0
- 1/1.2'' CMOS sensor
- 2.8, 4 or 6 mm fixed lens
- Colorful imaging 24/7
- Human/vehicle classification
- Strobe light and audio alarm
- H.265+/H.265
- IP67
- 130 dB WDR
- Built-in microphone and speaker
- Alarm I/O 1/1, audio I/O 1/1

ColorVu
AcuSense Technology

DS-2CD2647G2T-LZS
4 MP **1/1.8''** Bullet Network Camera

- 0.0005 lux @ F1.0
- 1/1.8'' CMOS sensor
- 2.8 - 12 mm motorized vari focal lens
- Colorful imaging 24/7
- Human/vehicle classification
- H.265+/H.265
- IP67, IK10
- 130 dB WDR
- Alarm I/O 1/1, audio I/O 1/1

ColorVu
AcuSense Technology

Network Cameras with ColorVu

DS-2CD2147G2-L(SU)
4 MP **1/1.8''** Dome Network Camera

- 0.0005 lux @ F1.0
- 1/1.8'' CMOS sensor
- 2.8 or 4 mm fixed lens
- Colorful imaging 24/7
- Human/vehicle classification
- H.265+/H.265
- IP67, IK10
- 130 dB WDR
- -SU: built-in microphone,
- alarm I/0 1/1, audio I/0 1/1

ColorVu
AcuSense Technology

DS-2CD2347G2-L(U)
4 MP **1/1.8''** Turret Network Camera

- 0.0005 lux @ F1.0
- 1/1.8'' CMOS sensor
- 2.8 or 4 mm fixed lens
- Colorful imaging 24/7
- Human/vehicle classification
- H.265+/H.265
- IP67
- 130 dB WDR
- -U: built-in microphone

ColorVu
AcuSense Technology

DS-2CD2T47G2-L
4 MP **1/1.8''** Bullet Network Camera

- 0.0005 lux @ F1.0
- 1/1.8'' CMOS sensor
- 2.8, 4 or 6 mm fixed lens
- Colorful imaging 24/7
- Human/vehicle classification
- H.265+/H.265
- IP67
- 130 dB WDR

ColorVu
AcuSense Technology

DS-2DE3A400BW-DE(F1)(T5)
4 MP **1/1.8''** Fixed Network PT Camera

- 0.0005 lux @ F1.0
- 1/1.8'' CMOS sensor
- 4 mm fixed lens
- Pan: 350°, tilt: 0° to 90°
- Colorful imaging 24/7
- Human/vehicle classification
- Strobe light and audio alarm
- H.265+/H.265
- IP66
- 120 dB WDR

ColorVu
AcuSense Technology

DS-2CD2347G2-LSU/SL
4 MP **1/1.8''** Turret Network Camera

- 0.0005 lux @ F1.0
- 1/1.8'' CMOS sensor
- 2.8 or 4 mm fixed lens
- Colorful imaging 24/7
- Human/vehicle classification
- Strobe light and audio alarm
- H.265+/H.265
- IP67
- 130 dB WDR
- Built-in microphone and speaker
- Alarm I/0 1/1, audio I/0 1/1

ColorVu
AcuSense Technology

DS-2CD2T47G2-LSU/SL
4 MP **1/1.8''** Bullet Network Camera

- 0.0005 lux @ F1.0
- 1/1.8'' CMOS sensor
- 2.8, 4 or 6 mm fixed lens
- Colorful imaging 24/7
- Human/vehicle classification
- Strobe light and audio alarm
- H.265+/H.265
- IP67
- 130 dB WDR
- Built-in microphone and speaker
- Alarm I/0 1/1, audio I/0 1/1

ColorVu
AcuSense Technology

- Panoramic
- Live Guard
- Varifocal
- 4k
- Deep Learning