

ColorVu + X

Explore new possibilities  
with ColorVu technology



*Even more  
than ColorVu*

**HIKVISION**<sup>®</sup>

[www.hikvision.com](http://www.hikvision.com)

# What Makes Our ColorVu Technology So Outstanding?

Hikvision's ColorVu technology helps users protect people and property by capturing high-quality, full-color video 24/7 with the same sharp rendering at night time as in daylight. Now, combine ColorVu ("+") with other Hikvision's advanced technology ("X") and amazing possibilities emerge. In other words, one plus one equals amazing!

That's how "ColorVu+X" works, delivering unmatched value to the security market 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 your security above and beyond what was previously possible. Versatile products and solutions are introduced with optimized performance to tackle more common security concerns in residences, office buildings, parking lots and many more.

## Cutting-Edge Hardware

3.6--9mm upgrade to 2.8--12mm, and F1.0 super large aperture for all focal length.

## State-of-the-Art Image Processing

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



## Super-High Reliability

Active alignment technology guarantees the focusing performance in the mass production of ultra-high-definition ColorVu-enabled products for superlative quality control.



### ColorVu + Panoramic

The whole scene in vivid color

Expanding the boundaries of brilliance with a full picture



### ColorVu + Varifocal

Zoom in with vivid color

Changeable focal lengths for more scenarios



### ColorVu + 4K

Capture richer, more colorful 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

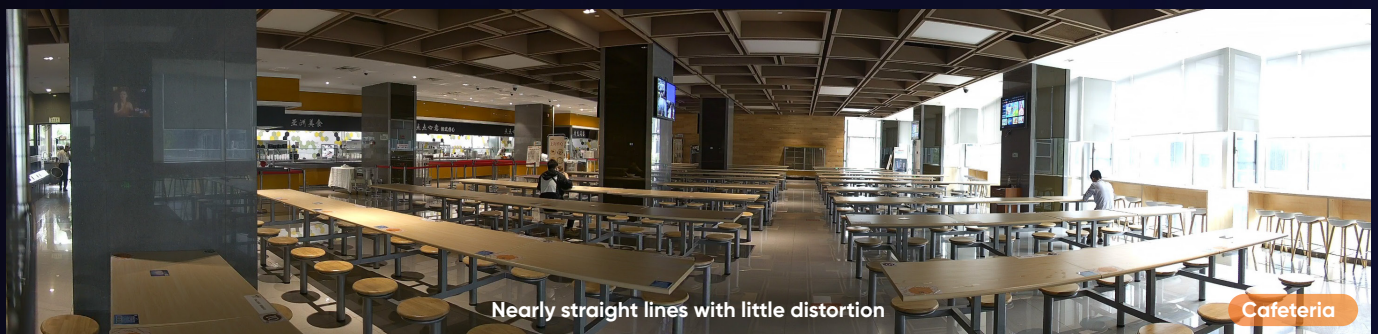
# ColorVu + Panoramic

## The whole scene in vivid color

**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, which utilizes Hikvision's Image Fusion Technologies of pioneering pixel-level image registration technology and brightness and color processing 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 color – even in the dark



Minor distortion near the edges of an image enables a similar natural view of human eyes



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

## ColorVu + 4K

# Capture richer, more colorful details

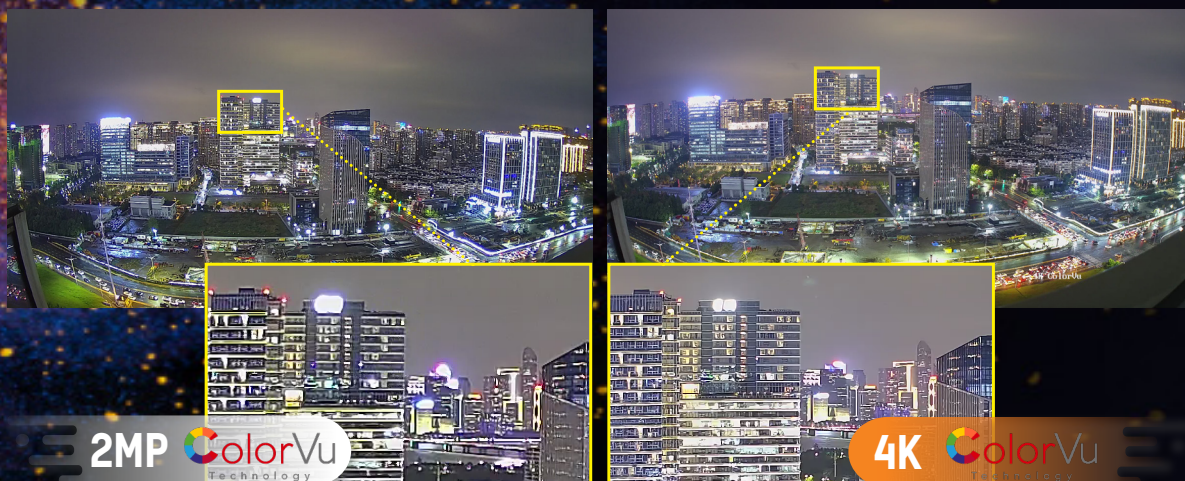
### Challenges

Traditional cameras may lack the resolution needed to provide clear, full-color 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 color 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.



## ColorVu + Varifocal

# Zoom in with vivid color

### Challenges

Historically, designing long focal length with large-aperture lenses has been very challenging because correcting the optical aberrations and distortion that arise from large apertures requires complex designs. Therefore, most typical varifocal lenses are relatively small-sized, and when focal length is increased, the aperture becomes smaller. But in 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 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 color as the camera zooms in and out.

Hikvision's proprietary fixed

**F1.0** large aperture  
varifocal lens



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, which greatly reduces workloads and costs and increases efficiency. With ColorVu and AcuSense technologies together, users get intelligent, proactive security, with high-resolution, full-color video imaging.



Combining ColorVu technology and AcuSense technology allows users to receive human & vehicle alarms and to search human or vehicle events with vivid, colorful 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 has solved these issues by integrating ColorVu technology and 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 color, 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
- Customized audio recording and uploading via Hik-Connect
- Mute/unmute notifications and alerts of Live Guard on Hik-Connect
- Turn on/off visual and auditory warnings with a few taps via Hik-Connect



### Varied Applications of Live Guard



House



Factory



Shop



Railway Station

## Network Cameras with ColorVu



**DS-2CD238762P-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

AcuSense  
Technology



**DS-2CD2T8762P-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

AcuSense  
Technology



**DS-2CD234762P-LSU/SL**  
4 MP 1/2.5" Panoramic Turret Network Camera

- 0.0005 lux @ F1.0
- 2 x 1/2.5" CMOS sensor
- 2.8 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

AcuSense  
Technology



**DS-2CD2T4762P-LSU/SL**  
4 MP 1/2.5" Panoramic Bullet Network Camera

- 0.0005 lux @ F1.0
- 2 x 1/2.5" CMOS sensor
- 2.8 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

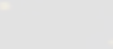
AcuSense  
Technology



**DS-2CD208762-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

AcuSense  
Technology



**DS-2CD238762-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

AcuSense  
Technology



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- 130 dB WDR

AcuSense  
Technology



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- Human/vehicle classification
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- H.265+/H.265
- IP67
- 130 dB WDR
- Built-in microphone and speaker
- Alarm I/O 1/1, audio I/O 1/1

AcuSense  
Technology



**DS-2CD2T8762-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

AcuSense  
Technology



**DS-2CD264762T-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

AcuSense  
Technology



**DS-2CD274762T-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

AcuSense  
Technology



**DS-2CD204762-L(U)**  
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
- -U: built-in microphone

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/O 1/1, audio I/O 1/1

AcuSense  
Technology

HOT



**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

AcuSense  
Technology

HOT



**DS-2CD2547G2-LS**  
4 MP 1/1.8" Mini 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, IK08
- 130 dB WDR
- Built-in microphone, alarm I/O 1/1,
- audio I/O 1/1

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

AcuSense  
Technology



**DS-2CD2047G2-LU/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

AcuSense  
Technology

HOT



**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/O 1/1, audio I/O 1/1

AcuSense  
Technology

HOT



**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/O 1/1, audio I/O 1/1

AcuSense  
Technology

HOT

## Recommended NVRs



### DS-7716NI-M4(16P)

16-Channel NVR with 4 HDDs

- Up to 14 TB capacity for each HDD
- Decoding formats: supporting H.265/H.265+/H.264/H.264+
- Bandwidth: 256 Mbps incoming, 256 Mbps outgoing
- 32-ch 1080p decoding
- 2 HDMI, 1 VGA and 1 CVBS, HDMI1 support 8K output
- eSATA by default
- Optional 16 PoE ports, with /16P model
- 1.5U chassis



### DS-7608NI-M2(8P)

8-Channel NVR with 2 HDDs

- Up to 14 TB capacity for each HDD
- Decoding formats: supporting H.265/H.265+/H.264/H.264+
- Bandwidth: 128 Mbps incoming, 256 Mbps outgoing
- 32-ch 1080p decoding
- 1 HDMI, 1 VGA and 1 CVBS output, HDMI1 support 8K output
- Optional 8 PoE ports, with /8P model
- 1U chassis



### DS-7716NXI-I4(S1/16P)(C)

16-Channel NVR with 4 HDDs

- Up to 10 TB capacity for each HDD
- Decoding formats: supporting H.265/H.265+/H.264/H.264+/MPEG4
- Bandwidth: 160 Mbps incoming, 256 Mbps outgoing
- 16-ch 1080p decoding
- 2 HDMI, 1 VGA and 1 CVBS output
- eSATA by default
- Optional 16 PoE ports, with /16P model
- 1.5U chassis
- Human/vehicle classification



### DS-7608NXI-I2(S1/8P)(C)

8-Channel NVR with 2 HDDs

- Up to 10 TB capacity for each HDD
- Decoding formats: supporting H.265/H.265+/H.264/H.264+/MPEG4
- Bandwidth: 80 Mbps incoming, 256 Mbps outgoing
- 16-ch 1080p decoding
- 1 HDMI, 1 VGA and 1 CVBS output
- Optional 8 PoE ports, with /8P model
- 1U chassis
- Human/vehicle classification

AcuSense  
Technology



### DS-7732NXI-I4(16P)/S(C)

16-Channel NVR with 4 HDDs

- Up to 10 TB capacity for each HDD
- Decoding formats: supporting H.265/H.265+/H.264/H.264+/MPEG4
- Bandwidth: 160 Mbps incoming, 256 Mbps outgoing
- 16-ch 1080p decoding
- 2 HDMI, 1 VGA and 1 CVBS output
- eSATA by default
- Optional 16 PoE ports, with /16P model
- 1.5U chassis
- Human/vehicle classification



### DS-7764NI-M4

8-Channel NVR with 2 HDDs

- Up to 14 TB capacity for each HDD
- Decoding formats: supporting H.265/H.265+/H.264/H.264+
- Bandwidth: 400 Mbps incoming, 400Mbps outgoing
- 32-ch 1080p decoding
- 2 HDMI, 1 VGA and 1 CVBS, HDMI1 support 8K output
- eSATA by default
- IP Video input: 64-ch Up to 32 MP resolution
- Support multiple VCA (Video Content Analytics) events: VCA detection, heat map, ANPR, people counting, POS

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