

# Smart Hybrid Light Cameras with ColorVu

Next-level night vision with **Smart Hybrid Light**



Smart Hybrid Light

**ColorVu**  
Technology

IR  White light



**HIKVISION**<sup>®</sup>

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





# Low-light Imaging Challenges

"Seeing" what happens in the darkness is critical for security teams. But capturing crystal clear images in low-light conditions has always been a long-term challenge in the security monitoring industry.

Traditionally, there have been two common solutions. The first, infrared (or "IR") cameras capture black and white video, losing color details. And the second, supplemental lighting, in conventional cameras, keeps a bright light on all through the night. This is wasteful and even restricted in some areas.

But now, Hikvision has a new solution. Smart Hybrid Light Cameras with ColorVu. These new cameras feature amazing low-light performance and just might be a critical addition to your security system.

Smart Hybrid Light

ColorVu  
Technology



Super Confocal



AcuSense  
Technology



## Meet Smart Hybrid Light Cameras with ColorVu

Hikvision's Smart Hybrid Light Cameras with ColorVu are designed to upgrade security night vision in virtually any setting with always-sharply-focused images and versatile lighting options. Powerful technologies including ColorVu, Super Confocal, Smart Hybrid Lighting, and other functionalities elevate our cameras with amazing reliability and advanced capabilities.



**ColorVu** technology  
ensures excellent color imaging  
in ultra-low light.



**Smart hybrid lighting**  
helps render color, black & white, or  
motion-triggered color imaging to  
suit virtually any need in any setting.



**AcuSense** technology  
enables classified object detection  
triggered by a person or vehicle.



**Super confocal lens**  
is designed with precision at the  
micron level, allowing for  
master-grade focus and  
long-lasting, high-definition  
images with F1.0 large aperture.

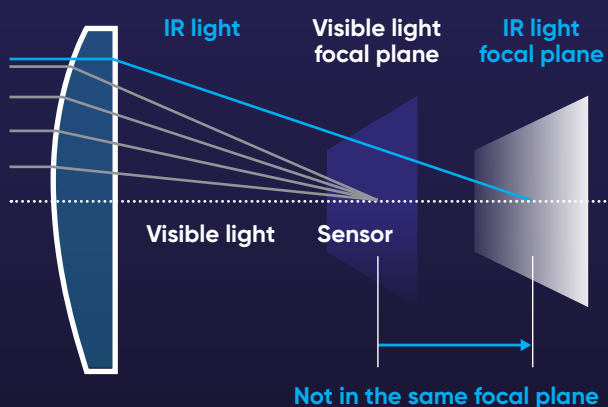




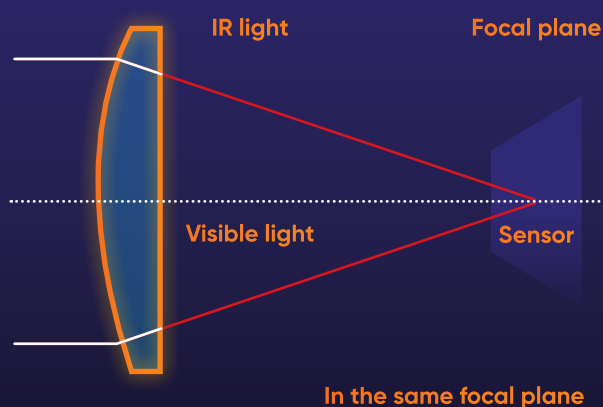
# Technical Advantages

Hikvision's Super Confocal Technology allows differing light wavelengths to travel along the same path through a set of specially-designed lenses, overcoming focusing challenges. This ensures clear, sharply-focused imaging with the same set of lenses, either with visible light or infrared light.

**Traditional lens**  
with F1.0 aperture



Hikvision's **Super Confocal Lens**  
with F1.0 aperture



**Blurring black & white imaging**



**Stable and clear black & white imaging**







# Core Benefits

With smart functionalities and powerful technologies, Smart Hybrid Light Cameras with ColorVu create a powerful solution for critical security video monitoring, every hour of the day and night.

## Splendid imaging performance

Enjoy splendid night vision boosted by Super Confocal Lens and ColorVu technology. Compared against conventional cameras, these cameras render clearer color imaging for longer periods of time throughout day and night. Additional lighting gets triggered only during the darkest hours.

**ColorVu** ensures excellent colorful imaging in ultra-low light.

**Super Confocal Lens** guarantees master-level focus and long-lasting, high-definition image.

Supplemental light off



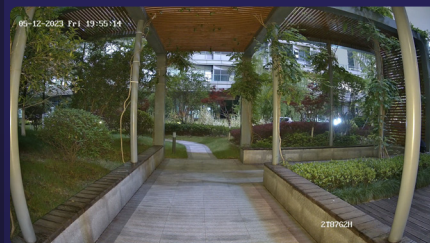
Smart hybrid light camera with ColorVu

IR on



Smart hybrid light camera with ColorVu

White light on



Smart hybrid light camera with ColorVu



Conventional camera



Conventional camera

## Monitoring in a smarter way

Security Intelligence gets a boost when these cameras are powered by AcuSense classified object detection.



### Motion Detection 2.0

Motion Detection 2.0 distinguishes persons and vehicles from other objects in the environment, focusing on real security threats with efficient video searches.



### Live Guard

Live Guard deters trespassing with visual and auditory warnings while sending notifications to remote users.

\* Please note only select models support this function.



## Optimize your security with flexible lighting options

There are three supplemental lighting modes available: infrared, white light, and smart.

### IR Mode

The camera uses its IR lighting in darkness, offering black and white imaging.

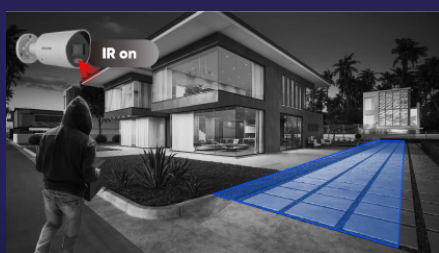
### White Light Mode

The camera uses a visible light to ensure continual color imaging overnight.

### Smart Mode

The camera maintains infrared illumination and only employs the visible light when triggered by the detection of a person or vehicle. By smartly switching the lighting modes, users can get all the details at those key moments.

When there is **no target in the area**, the **infrared light turns on**



When a **car or person appears**, the **white light turns on**



When the **car or person leaves**, the camera **switches back to the infrared light**.



With just a few steps, it's easy to configure and choose from three lighting modes in multiple ways.



**NVR**



**Mobile app**

(Hik-Connect and Hik-Partner Pro)



**Web**

## Suggested Applications

### Warehouses / Retail Shops

- Classified object detection using Motion Detection 2.0
- In smart mode, visible supplemental lighting gets triggered by persons or vehicles



### Residences

- Light the way for family and guests when they come near the house
- Deter trespassing in real time with key details captured more effectively



### City Streets

- Brilliant and vivid imaging in dim environments without supplemental lighting.
- No unwanted or unnecessary light pollution.





## Product showcase

## Network cameras

### DS-2CD20x762H-LI(U) Bullet Network Camera



- 4/6/8 MP
- 0.0005 lux @ F1.0
- 1/1.8" CMOS sensor
- 2.8/4 mm lens
- Smart Hybrid Light
- H.265/H.265+
- 130 dB WDR
- Up to 40 m suppl. light range
- IP67

### DS-2CD21x762H-LI(SU) Dome Network Camera



- 4/6/8 MP
- 0.0005 lux @ F1.0
- 1/1.8" CMOS sensor
- 2.8/4 mm lens
- Smart Hybrid Light
- H.265/H.265+
- 130 dB WDR
- Up to 40 m suppl. light range
- IP67

### DS-2CD23x762H-LI(U) Turret Network Camera



- 4/6/8 MP
- 0.0005 lux @ F1.0
- 1/1.8" CMOS sensor
- 2.8/4 mm lens
- Smart Hybrid Light
- H.265/H.265+
- 130 dB WDR
- Up to 40 m suppl. light range
- IP67

### DS-2CD2Tx762H-LIU Bullet Network Camera



- 4/6/8 MP
- 0.0005 lux @ F1.0
- 1/1.8" CMOS sensor
- 2.8/4 mm lens
- Smart Hybrid Light
- H.265/H.265+
- 130 dB WDR
- Up to 60 m suppl. light range
- IP67

### DS-2CD26x762HT-LIZS Bullet Network Camera



- 4/6/8 MP
- 0.0008 lux @ F1.2
- 1/1.8" CMOS sensor
- 2.8-12 mm motorized lens
- Smart Hybrid Light
- H.265/H.265+
- 130 dB WDR
- Up to 60 m suppl. light range
- IP67

### DS-2CD27x762HT-LIZS Dome Network Camera



- 4/6/8 MP
- 0.0008 lux @ F1.2
- 1/1.8" CMOS sensor
- 2.8-12 mm motorized lens
- Smart Hybrid Light
- H.265/H.265+
- 130 dB WDR
- Up to 40 m suppl. light range
- IP67

### DS-2CD20x762H-LISU/SL Bullet Network Camera



- 4/6/8 MP
- 0.0005 lux @ F1.0
- 1/1.8" CMOS sensor
- 2.8/4 mm lens
- Smart Hybrid Light
- H.265/H.265+
- 130 dB WDR
- Up to 40 m suppl. light range
- IP67
- Strobe Light & Audio Alarm

### DS-2CD23x762H-LISU/SL Turret Network Camera



- 4/6/8 MP
- 0.0005 lux @ F1.0
- 1/1.8" CMOS sensor
- 2.8/4 mm lens
- Smart Hybrid Light
- H.265/H.265+
- 130 dB WDR
- Up to 40 m suppl. light range
- IP67
- Strobe Light & Audio Alarm

### DS-2CD2Tx762H-LISU/SL Bullet Network Camera



- 4/6/8 MP
- 0.0005 lux @ F1.0
- 1/1.8" CMOS sensor
- 2.8/4 mm lens
- Smart Hybrid Light
- H.265/H.265+
- 130 dB WDR
- Up to 60 m suppl. light range
- IP67
- Strobe Light & Audio Alarm

## Recommended NVRs

### DS-7604NXI-K1/4P 4-Channel NVR with 1 HDD



- Up to 10 TB capacity for each HDD
- Decoding formats supported: H.265 / H.265+ / H.264 / H.264+
- Bandwidth: 40 Mbps incoming, 80 Mbps outgoing
- 12-ch 1080p decoding
- 1 HDMI, 1 VGA, HDMI1 supporting 4K output
- 1 SATA interface
- 1U chassis

### DS-7608NXI-K2/8P 8-Channel NVR with 2 HDDs



- Up to 10 TB capacity for each HDD
- Decoding formats supported: H.265 / H.265+ / H.264 / H.264+
- Bandwidth: 80 Mbps incoming, 160 Mbps outgoing
- 12-ch 1080p decoding
- 1 HDMI, 1 VGA output, HDMI1 supporting 4K output
- 2 SATA interface
- 1U chassis

### DS-7604NI-Q1/4P 4-Channel NVR with 1 HDD



- Up to 8 TB capacity for each HDD
- Decoding formats supported: H.265 / H.265+ / H.264 / H.264+ / MPEG4
- Bandwidth: 40 Mbps incoming, 80 Mbps outgoing
- 1-ch 8 MP or 5-ch 1080p decoding
- 1 HDMI, 1 VGA output
- 1 SATA interface
- 1U chassis

### DS-7608NI-Q2/8P 8-Channel NVR with 2 HDDs



- Up to 8 TB capacity for each HDD
- Decoding formats supported: H.265 / H.265+ / H.264 / H.264+ / MPEG4
- Bandwidth: 80 Mbps incoming, 80 Mbps outgoing
- 1 inch 8 MP or 5-ch 1080p decoding
- 1 HDMI, 1 output
- 1 SATA interface
- 1U chassis



## Product showcase

## Turbo HD cameras

### DS-2CE10DF0T-LFS 2 MP Mini Bullet Camera



- 0.001 lux @ F1.0
- 2.8/3.6 mm lens
- Smart Hybrid Light
- Up to 20 m white light distance and 20 m IR distance
- 3D DNR, Digital WDR
- Audio over Coaxial cable
- IP67
- Metal

### DS-2CE10DF0T-LPFS 2 MP Mini Bullet Camera



- 0.001 lux @ F1.0
- 2.8/3.6 mm lens
- Smart Hybrid Light
- Up to 20 m white light distance and 20 m IR distance
- 3D DNR, Digital WDR
- Audio over Coaxial cable
- IP67
- Plastic

### DS-2CE12DF0T-LFS 2 MP Bullet Camera



- 0.001 lux @ F1.0
- 2.8/3.6 mm lens
- Smart Hybrid Light
- Up to 40 m white light distance and 40 m IR distance
- 3D DNR, Digital WDR
- Audio over Coaxial cable
- IP67

### DS-2CE70DF0T-LMFS 2 MP Turret Camera



- 0.001 lux @ F1.0
- 2.8/3.6 mm lens
- Smart Hybrid Light
- Up to 20 m white light distance and 20 m IR distance
- 3D DNR, Digital WDR
- Audio over Coaxial cable
- IP67
- Metal

### DS-2CE70DF0T-LPFS 2 MP Turret Camera



- 0.001 lux @ F1.0
- 2.8/3.6 mm lens
- Smart Hybrid Light
- Up to 20 m white light distance and 20 m IR distance
- 3D DNR, Digital WDR
- Audio over Coaxial cable
- Plastic

### DS-2CE72DF0T-LFS 2 MP Turret Camera



- 0.001 lux @ F1.0
- 2.8/3.6 mm lens
- Smart Hybrid Light
- Up to 40 m white light distance and 40 m IR distance
- 3D DNR, Digital WDR
- Audio over Coaxial cable
- IP67

### DS-2CE10KF3T-L(E) 3K Mini Bullet Camera



- 0.0005 lux @ F1.0
- 2.8/3.6 mm lens
- Smart Hybrid Light
- Up to 20 m white light distance and 20 m IR distance
- 3D DNR, 130 dB WDR
- Power over Coaxial cable (-E)
- IP67
- Metal

### DS-2CE12KF3T-L(E) 3K Bullet Camera



- 0.0005 lux @ F1.0
- 2.8/3.6 mm lens
- Smart Hybrid Light
- Up to 40 m white light distance and 40 m IR distance
- 3D DNR, 130 dB WDR
- Power over Coaxial cable (-E)
- IP67
- Metal

### DS-2CE72KF3T-L(E) 3K Turret Camera



- 0.0005 lux @ F1.0
- 2.8/3.6 mm lens
- Smart Hybrid Light
- Up to 40 m white light distance and 40 m IR distance
- 3D DNR, 130 dB WDR
- Power over Coaxial cable (-E)
- IP67

## Recommended DVRs

### eDVR Series

Up to **2 weeks** of video recording



| DS-E04HGHI-B  | DS-E08HGHI-B  | DS-E16HGHI-B   | iDS-E04HQHI-B   | iDS-E08HQHI-B   | iDS-E04HUHI-B  |
|---|---|--|---|---|--|
| <ul style="list-style-type: none"><li>• Built-in 330 GB eSSD (300 GB available)</li><li>• 4-ch 1080p lite @ 15 fps</li><li>• 5.4 W (max.)</li></ul> | <ul style="list-style-type: none"><li>• Built-in 512 GB eSSD (480 GB available)</li><li>• 8-ch 1080p lite @ 15 fps</li><li>• 6.2 W (max.)</li></ul> | <ul style="list-style-type: none"><li>• Built-in 1 TB eSSD (960 GB available)</li><li>• 16-ch 1080p lite @ 15 fps</li><li>• 9.5 W (max.)</li></ul> | <ul style="list-style-type: none"><li>• Built-in 512 GB eSSD (480 GB available)</li><li>• 4-ch 3K / 5 MP lite @ 12 fps</li><li>• 5.4 W (max.)</li></ul> | <ul style="list-style-type: none"><li>• Built-in 1 TB eSSD (960 GB available)</li><li>• 8-ch 3K / 5 MP lite @ 12 fps</li><li>• 8.2 W (max.)</li></ul> | <ul style="list-style-type: none"><li>• Built-in 1 TB eSSD (960 GB available)</li><li>• 4-ch 3K/ 5 MP @ 12 fps</li><li>• 7.5 W (max)</li></ul> |
| Motion Detection 2.0  |   |  | AcuSense-enabled classified object detection  |   |  |
| HDTVI / AHD / CVI / CVBS / IP video input   |   |  |   |   |  |
| H.265 & Scene-Adaptive Bitrate Control  |   |  |   |   |  |

Up to **4 weeks** of video recording

| DS-E04HGHI-D  | DS-E08HGHI-D  | iDS-E04HQHI-D   | DS-E04HGHI-E  |
|---|---|---|---|
| <ul style="list-style-type: none"> <li>• Built-in 512 GB eSSD (480 GB available)</li> <li>• 4-ch 1080p lite @ 15 fps</li> <li>• 5.4 W (max.)</li> </ul> | <ul style="list-style-type: none"> <li>• Built-in 1 TB eSSD (960 GB available)</li> <li>• 8-ch 1080p lite @ 15 fps</li> <li>• 6.2 W (max.)</li> </ul> | <ul style="list-style-type: none"> <li>• Built-in 1 TB eSSD (960 GB available)</li> <li>• 4-ch 3K / 5 MP lite @ 12 fps</li> <li>• 5.4 W (max.)</li> </ul> | <ul style="list-style-type: none"> <li>• Built-in 1 TB eSSD (960 GB available)</li> <li>• 4-ch 1080p lite @ 15 fps</li> <li>• 5.4 W (max.)</li> </ul> |
| Motion Detection 2.0  |   | AcuSense-enabled classified object detection  | Motion Detection 2.0  |
| HDTVI / AHD / CVI / CVBS / IP video input   |   |   |   |
| H.265 & Scene-Adaptive Bitrate Control  |   |   |   |

Note: Recording times are 2, 4, or 8 weeks by default parameters and in test environments, with all channels connected to analog cameras. Actual recording time might be under 2, 4, or 8 weeks in real-world scenarios, depending on environment, connected equipment, etc.

**iDS-7204HQHI-M1/S**

4 Channel DVR with AcuSense



- Deep learning based motion detection on all 4 channels
- Up to 2-ch deep learning based perimeter protection
- 3K / 5 MP lite @ 12 fps, 1080p @ 15 fps
- Maximum 6 IP camera inputs (up to 6 MP)

**iDS-7208HQHI-M1(2)/S**

8 Channel DVR with AcuSense



- Deep learning based motion detection on all 8 channels
- Up to 4-ch deep learning based perimeter protection
- 3K / 5 MP lite @ 12 fps, 1080p @ 15 fps
- Maximum 12 IP camera inputs (up to 6 MP)

**iDS-7216HQHI-M1(2)/S**

4 Channel DVR with AcuSense



- Deep learning based motion detection on all 16 channels
- Up to 4-ch deep learning based perimeter protection
- 3K / 5 MP lite @ 12 fps, 1080p @ 15 fps
- Maximum 24 IP camera inputs (up to 8 MP)

**iDS-7232HQHI-M2/S**

32 Channel DVR with AcuSense



- Deep learning based motion detection on all 32 channels
- Up to 4-ch deep learning based perimeter protection
- 3K / 5 MP lite @ 12 fps, 1080p @ 15 fps
- Maximum 40 IP camera inputs (up to 6 MP)

**iDS-7204HQHI-M1/FA**

4 Channel DVR with AcuSense



- Deep learning-based behavior analysis or face picture comparison
- 1-ch facial comparison alarm or 2-ch false alarm reduction
- Face picture library up to 80 MB capacity, up to 16 face picture libraries
- 3K / 5 MP lite @ 12 fps, 1080p @ 15 fps
- Maximum 6 IP camera inputs (up to 6 MP)

**iDS-7208HQHI-M1(2)/FA**

8 Channel DVR with AcuSense



- Deep learning-based behavior analysis or face picture comparison
- 1-ch facial comparison alarm or 4-ch false alarm reduction
- Face picture library up to 80 MB capacity, up to 16 face picture libraries
- 3K / 5 MP lite @ 12 fps, 1080p @ 15 fps
- Maximum 12 IP camera inputs (up to 6 MP)

**iDS-7216HQHI-M1(2)/FA**

16 Channel DVR with AcuSense



- Deep learning-based behavior analysis or face picture comparison
- 1-ch facial comparison alarm or 4-ch false alarm reduction
- Face picture library up to 80 MB capacity, up to 16 face picture libraries
- 3K / 5 MP lite @ 12 fps, 1080p @ 15 fps
- Maximum 24 IP camera inputs (up to 6 MP)

**iDS-7204HUHI-M1(2)/S**
**iDS-7204HUHI-M1/P**

4 Channel DVR with AcuSense



- Deep learning based motion detection on all 4 channels
- Up to 4-ch deep learning based perimeter protection
- 8 MP @ 8 fps (channel 1), 3K / 5 MP @ 12 fps
- Maximum 8 IP camera inputs (up to 8 MP)
- PoC (/P)

**iDS-7208HUHI-M1(2)/S**
**iDS-7208HUHI-M2/P**

8 Channel DVR with AcuSense



- Deep learning based motion detection on all 4 channels
- Up to 4-ch deep learning based perimeter protection
- 8 MP @ 8 fps, 3K / 5 MP @ 12 fps
- Maximum 16 IP camera inputs (up to 8 MP)
- PoC (/P)

**iDS-7216HUHI-M2/S**
**iDS-7216HUHI-M2/P**

16 Channel DVR with AcuSense



- Deep learning based motion detection on all 16 channels
- Up to 4-ch deep learning based perimeter protection
- 8 MP @ 8 fps, 3K / 5 MP @ 12 fps
- Maximum 32 IP camera inputs (up to 8 MP)
- PoC (/P)

**iDS-7204HUHI-M1(2)/FA**

4 Channel DVR with AcuSense



- Deep learning-based behavior analysis or face picture comparison
- 1-ch facial comparison alarm or 4-ch false alarm reduction
- Face picture library up to 80 MB capacity, up to 16 face picture libraries
- 8 MP @ 8 fps, 3K / 5 MP @ 12 fps
- Maximum 8 IP camera inputs (up to 8 MP)

**iDS-7208HUHI-M1(2)/FA**

8 Channel DVR with AcuSense



- Deep learning-based behavior analysis or face picture comparison (/FA)
- 1-ch facial comparison alarm (/FA) or 4-ch false alarm reduction
- Face picture library up to 80 MB capacity, up to 16 face picture libraries
- 8 MP @ 8 fps, 3K / 5 MP @ 12 fps
- Maximum 16 IP camera inputs (up to 8 MP)

**iDS-7216HUHI-M2/FA**

16 Channel DVR with AcuSense



- Deep learning-based behavior analysis or face picture comparison (/FA)
- 1-ch facial comparison alarm (/FA) or 4-ch false alarm reduction
- Face picture library up to 80 MB capacity, up to 16 face picture libraries
- 8 MP @ 8 fps, 3K / 5 MP @ 12 fps
- Maximum 32 IP camera inputs (up to 8 MP)


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