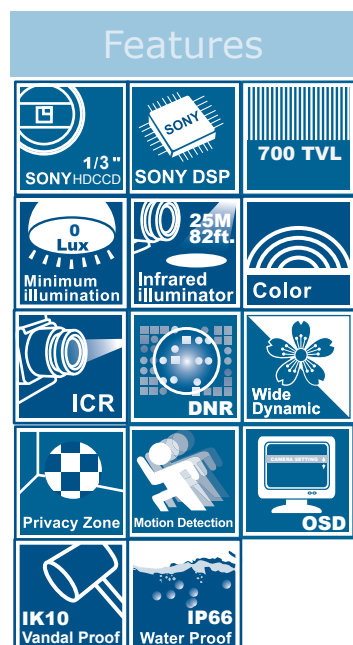# SDR437
700 TV Lines Color IR Dome for Crystal Clear Images

1/3'' Sony Exview HAD CCD II/DSP, 700TVL, 3.3~12mm F1.4, 25m IR,
ICR day/night, WDR, DNR, motion detection, privacy zone, OSD, IP66, IK10

Lumii™ TECHNOLOGY INSIDE

The SDR437 is an Infrared camera that provides up to 25 meters (82 feet) of viewing distance in extremely black night. It delivers crystal clear image in 700 TVL and adopts MESSOA's exclusive Lumii™ technology to deliver excellent image in low light conditions. Its mechanical ICR function automatically detects light changes so as to provide true day/night surveillance function. It is a vandal-resistant dome designed for either indoor or outdoor uses. The stylish housing offers a great look at your surveillance sites. The camera also provides a rich set of features to facilitate installations for diverse job site requirements.

Features

- 1/3" SONY HDCCD
- SONY DSP
- 700 TVL
- 0 Lux Minimum illumination
- 25M 82ft. Infrared illuminator
- Color
- ICR
- DNR
- Wide Dynamic
- Privacy Zone
- Motion Detection
- OSD
- IK10 Vandal Proof
- IP66 Water Proof

◼ Lumii™ Technology

The SDR437 utilizes the superior 1/3" Sony CCD to deliver a high resolution of 700 TV lines. The image processing capability is further enhanced by MESSOA's Lumii™ imaging technology to deliver 12-bit sharper and clearer images than typical 700 TVL cameras. Even in the ultra low light conditions, Lumii ensures that SDR437 delivers high resolution images without blur.

◼ Mechanical (ICR) Day/Night

Featuring IR Cut Filter Removable (ICR) function, the camera uses a mechanical way to detect changes in lighting conditions, and then switches between color and B/W modes. It provides perfect color images at day time and crisp monochrome images at night or very dark environment.

◼ Noise Reduction

Noise reduction is a powerful method for reducing image noise that produces extremely clear images even in very dim lighting conditions. Noise reduction cuts image size, reducing storage-space requirements and back-end costs.

◼ Wide Dynamic Range (WDR)

WDR optimizes images as dark areas become visible while retaining detail in bright areas. It is ideal for scenes where objects are difficult to recognize due to severe backlight or shadows. Places like bank entrances tend to be under lit or over lit. A typical camera would produce an image where a person in the dark area could hardly be recognized; whereas with WDR, not only clear details of the person are produced in the foreground but also in the background.

◼ Even Light Distribution

The SDR437's IR LEDs produce even light distribution across a view range as far as 25 meters (82 feet) away. Without light loss, uniform illumination helps you see every details.

◼ Energy Efficient

The SDR437 not only utilizes high-power IR LEDs but also optimizes the LEDs usage to minimize energy usage. Exceptional single-control lighting technology helps reduce power consumption and extend the life time of the LEDs as well as the camera.

◼ AC Line Lock Capability

The camera features an AC line lock for synchronization. In multi-camera operations, the AC line lock synchronizes all cameras connected to the same power line. This prevents the video from rolling vertically when switching between cameras.

◼ Dual Voltage for Flexible Power

The camera supports two types of power operation: 24V AC or 12V DC. The camera automatically adapts to whichever power source is used, making installation fast on any power system.

◼ Completely Vandal-resistant

The camera is IK10-rated impact-resistant, meaning it withstands the impact of 20 Joules. It protects the camera against extreme vandalism, making it perfect for outdoor surveillance.

Specifications

Image System		
Image Pickup Device	1/3" SONY Exview HAD CCD II	
Signal System	NTSC	PAL
Effective Pixels (HxV)	976 (H) × 494 (V)	976 (H) × 582 (V)
Scanning System	2:1 Interlace V: 59.94Hz , H: 15.734KHz	2:1 Interlace V: 50Hz , H: 15.625KHz
Electric		
Sync System	Internal/Linelock	
Horizontal Resolution	700 TV line	
Bulit-in Lens	f=3.3~12mm,F1.4 DC iris varifocal	
View Angle	Horizontal: 89.8°(wide) ~ 23.9°(tele), Vertical: 63.6°(wide) ~ 17.9°(tele)	
Gamma Correction	0.45	
Minimum Illumination	0lux (IR on)	
S/N Ratio	More than 50dB (AGC off)	
Gain Control	On / Off (selectable)	
White Balance	ATW/ Manual/ User/ Push/ Push lock	
Electric shutter	1/60sec	1/50sec
Flickerless	On / Off (selectable)	
BLC	Off/ BLC/ HLC (high Light Compensation) (selectable)	
Day/Night Mode	Mechanical Day/Night	
DNR	Yes	
Motion Detection	Yes, 4 areas (max)	
Privacy Mask	Yes, 8 zones (max)	
High Light Compensation	Yes	
WDR	On / Off (selectable)	
OSD	Yes	
Multi Language	English, Japanese, German, France, Russia, Portugues, Spanish, Simplified Chinese	
Video Output	1Vpp composite output, 75ohm	
IR Distance	25m (82ft)	
IR LED	18pcs	
IR Wavelength	850nm	
IR turn on status	under 10lux by photocell auto controlled	
LED Life	More than 10,000 hours (50ºC)	
Power Supply		
Power Requirement	DC 12V & AC 24V ± 10%	
Power Consumption	5W Max	
Environment		
Operating Temperature	-10°C ~ 50°C	
Operating Humidity	90% MAX	
Storage Temperature	-20°C ~ 60°C	
Storage Humidity	70% MAX	
Mechanism		
Dimensions(WxHxL)	131 x 132 x 112mm (5.16" x 5.20" x 4.25")	
Weight	750g (1.65lb) approx.	
Protection	IK10, Vandal-resistant, IP66	
Ordering information	**SDR437-HN5**	**SDR437-HP5**
Accessories	L-Type Wall Mount: SAB749-1W Cable Management Wall Mount: SAB755+SAD712 Pendant Mount: SAB755M+SAD712	

Dimensions

Unit: mm (inch)

ø131mm (5.16")

ø112mm (4.41")

ø132mm (5.20")