High resolution WDR Camera
SHC-735
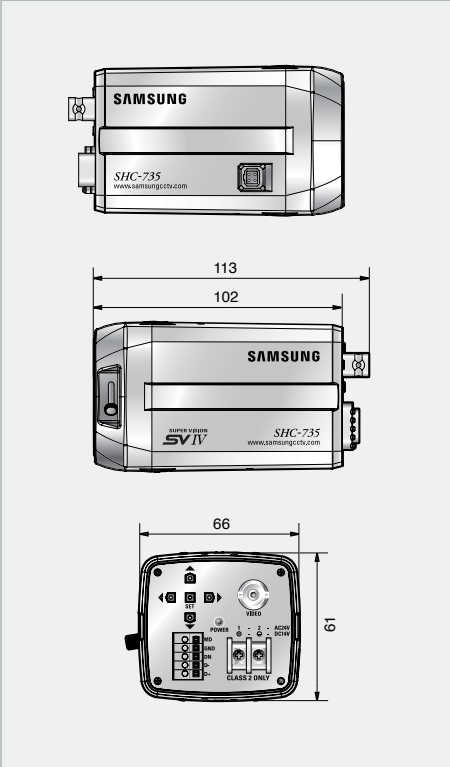
Specifications

Mode	SHC-735N	SHC-735P
Power Source	24V AC / 12V DC (±10%)	
Power Consumption	Max. 4.0W	
Image Pick-up Device	1/3" Vertical double density interline color CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace 525 Lines / 60 Fields / 30 Frames	2 : 1 Interlace 625 Lines / 50 Fields / 25 Frames
Synchronization	Internal / Line lock selectable	
Scanning Frequency	Horizontal : 15,734KHz / Vertical : 59.94Hz	Horizontal : 15,625KHz / Vertical : 50Hz
Horizontal Resolution	Color : 560TV lines (Min.) / B/W : 700TV lines (Min.)	
Min. Illumination	0.2Lux@F1.2 (Color mode) 0.01Lux@F1.2 (B/W mode) 0.0001Lux@F1.2 (Sens-up mode)	
Video Output	1.0Vp-p / 75Ω (Video 0.714Vp-p, Sync 0.286Vp-p)	1.0Vp-p / 75Ω (Video 0.7Vp-p, Sync 0.3Vp-p)
S / N Ratio (Y signal)	52dB (AGC off, Weight on)	
Day & Night	Color / B/W / Auto selectable (ICR filter change)	
Wide Dynamic Range	52dB	
Back Light Compensation	WDR / BLC / Off selectable	
Gain Control	Low / High / Off selectable	
White Balance	ATW / AWC / Manual selectable (1800°K ~ 10,500°K)	
Electronic Shutter Speed	Auto / Manual selectable (1/60 ~ 1/120,000sec)	Auto / Manual selectable (1/50 ~ 1/120,000sec)
Sens-up	On / Off (Selectable limit ~ 256X)	
OSD	Multi-language support (English, Spanish, French, German, Italian and Chinese)	
SSNR	On / Off selectable (Level adjustable)	
Motion Detection	On / Off selectable (Output via terminal)	
Digital Zoom	On / Off (2X ~ 10X)	
Privacy Function	On / Off selectable (8 Prorammable zones per screen)	
Mirror	On / Off selectable	
Flip	On / Off selectable	
Sharpness	On / Off selectable (Level adjustable)	
BFL	Built-in	
Blemish Compensation	256 point (Even 128 point, ODD 128 point)	
Communication	RS-485	
Iris Control	DC / Video	
Lens Mount	C / CS-mount (Easy focus type)	
Operating Temperature	-10°C ~ +50°C	
Operating Humidity	30% ~ 80% RH	
Dimensions	66(W) x 61(H) x 102(D)mm	
Weight	315g	

Dimensions

Unit : mm

113
102
66
61

Design and specifications are subject to change without notice.

SV IV

Superior performance beyond imagination
Superb images overcoming natural light limitations

SHC-735

imagine Super Vision
at Anytime, Anywhere

The SHC-735 by Samsung Techwin is a camera with a built-in fourth-generation DSP image engine SVIV chipset, which provides the best quality images, anytime and anywhere. The SHC-735 comes complete with the world's best 560TV lines color resolution, a further improved WDR function for better color presentation in backlight, and clear picture quality without noise for low light level environments.

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SUPER VISION
SV IV

Superior performance beyond imagination...
Cutting-edge surveillance technology with
superb picture quality for all weather conditions

Obtaining the best possible images in the world, overcoming natural light and other environmental limitations.

The fourth-generation
advanced DSP image engine

Breakthrough Technology
The next generation DSP, SV IV

The SV IV is the latest fourth-generation chipset in the Super Vision series, which has been independently developed by Samsung Techwin using super-precision image analysis techniques and three-dimensional noise reduction technology (SSNR II).

▷ **560TV lines high resolution**

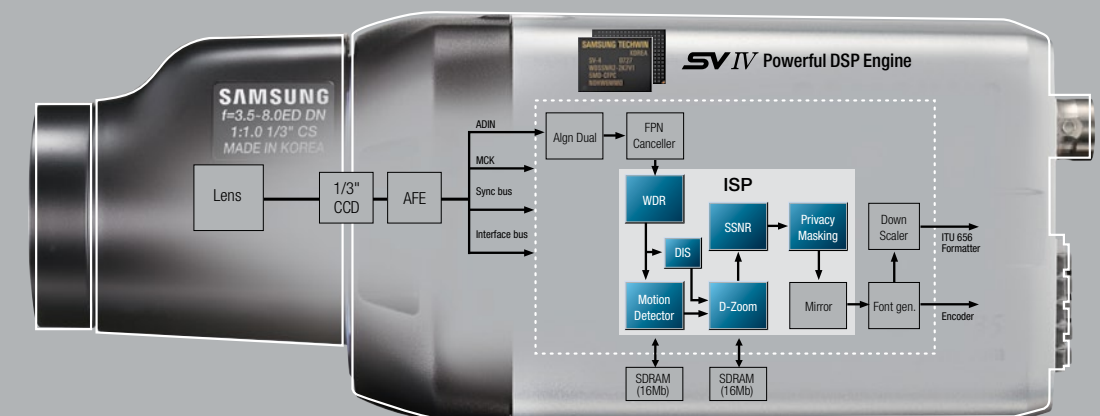▷ **Multi-language OSD**

SV IV Powerful DSP Engine

▷ **Clear images at low light levels**

▷ **Powerful WDR**

- Achieving the world's best 560TV lines color resolution
- Backlight compensation using a powerful pixel control WDR
- Built-in next generation DNR (SSNR II) that employs three-dimensional filtering methods
- Clear images 24 hours a day with the ICR Day & Night function
- Max. 256X Sens-up, ultra low light level of 0.0001Lux

- Supporting Multi-language OSD for user convenience
- DIS stabilises images by reducing flickering. 10X digital zoom
- Unrestricted area setting : BLC, MD
- Privacy masking for up to 8 areas
- OSD remote control via RS-485

SV IV Powerful DSP Engine

Resolution >>>

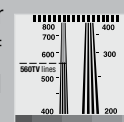**560TV lines** *resolution, Outstanding images of super high picture quality !*

WDR >>>

Powerful **WDR***, overcoming natural light limitations !*

An unbeatable resolution of 560TV lines for color and 700TV lines for black and white.

The SHC-735 cameras contain a built-in SVIV and provide clear picture quality for surveillance, using a horizontal resolution of over 560TV lines that is unrivalled by other similar camera ranges. The SHC-735 cameras give a much greater level of accuracy in recognising the facial features of surveillance subjects, and reading vehicle registration numbers,by providing clear images.

EIAJ Test Chart   Conventional Camera   SHC-735

Realising clean, clear images with S/N 52dB

The SHC-735 provides clean, clear images without screen noise via an S/N ratio of 52dB that is superior to that of other camera brands.

Conventional Camera   SHC-735

Further 128X Improved WDR by pixel unit image processing

The WDR of the SHC-735 compensates for backlight 128 times more effectively than previous models, by applying an optimum fusion ratio when combining the high speed shutter used in bright areas and the low speed shutter used in dark areas.

WDR Off

WDR Off   WDR On

Flexible backlight compensation zone setting

The SHC-735 sets a backlight blocking zone that is optimised for the user environment through an intelligent User BLC (Back Light Compensation) function.

BLC Off   BLC On

≪ Low Light

Wide range of smart functions for user convenience such as **Multi-language OSD !**

Brighter and clearer images even at a low light level of **0.0001Lux !**

Convenient **Multi-language OSD** setting

The SHC-735 allows OSD menu setting and supports the Multi-language for OSD setting including English, Spanish, French, German, Italian and Chinese, resulting in easy, quick, user-friendly setting.

DIS stabilises images by reducing flickering

The SHC-735 has a built-in DIS (Digital Image Stabilizer) that effectively stabilises images when the weather changes or in strong winds that can affect the camera, causing blurring or flickering of images.
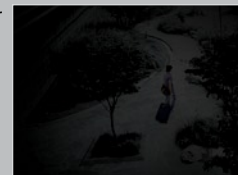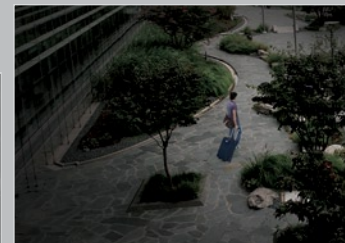
DIS Off   DIS On

High sensitivity - an ultra low light level of **0.0001Lux**

The SHC-735 detects the slightest level of light even in an environment with a poor light source, and can operate in an ultra low light level of 0.0001Lux in color mode, by implementing up to 256X Sens-up.

Conventional Camera   SHC-735

Intelligent motion detection **MD**

The SHC-735 can mask up to 8 areas in color on the surveillance screen and automatically detects movement. The SHC-735 supports an intelligent motion detection function by enabling the user to make different color and sensitivity settings for up to 8 areas.

Motion Detected

Application of three-dimensional noise reduction technology, **SSNR II**
Superb picture quality at a low light level

More efficient night-time surveillance can be achieved with the enhanced 3D DNR SSNR II function that has been built-in to improve the S/N ratio to 52dB, and to achieve clear picture quality at a low light level, giving unblurred images.

SSNRII Off   SSNRII On

Privacy masking for up to 8 areas

Up to 8 unwanted areas within the surveillance area can be masked with 6 different colors, and therefore an appropriate level of privacy protection can be ensured.

24 hour surveillance with the **ICR Day & Night** function

The SHC-735 provides a high quality image by activating the ICR (Infrared Cut filter Removal) Day & Night function that detects changes in the level of light at any time of day, and then switches to the optimum surveillance mode according to the light level.

Day   Night

Supporting **RS-485** remote control

The setting of the camera menu, or changing the settings, can be done by remote control via an RS-485 port.