### Super Vision at Anytime, Anywhere





## One Camera Can Truly Perform in Light Conditions...



Superior Image Resolution



Revolutionary Low-Light Sensitivity



Outstanding Wide Dynamic Range



In **CCTV** systems, light level is the most critical factor affecting camera performance and picture quality. Appropriate light sensitivity control is, therefore, the most important yet hardest-to-achieve technology.

Samsung Techwin has made a real breakthrough in this light-sensitive technology and developed a camera, which produces much clearer and better-defined images under 'any' lighting conditions. The key to this breakthrough technology is the **SVIII**, a revolutionarily new version of the **SV (Super Vision)** Series DSP systems. The new **SVIII** technology achieves a trinity which consists of an strikingly improved low-light sensitivity of 0.05 Llux @ F1.2 in normal color mode, a 126 times more extended dynamic range, and more sophisticated images with a high resolution of 520TV lines.

The new **SHC-730** is a 1/3" CCD professional-quality high sensitivity & WDR color camera that incorporates **SVIII** DSP system. It is truly an optimized surveillance solution covering all the variable light conditions ranging from the extreme dark locations to harsh backlight conditions.















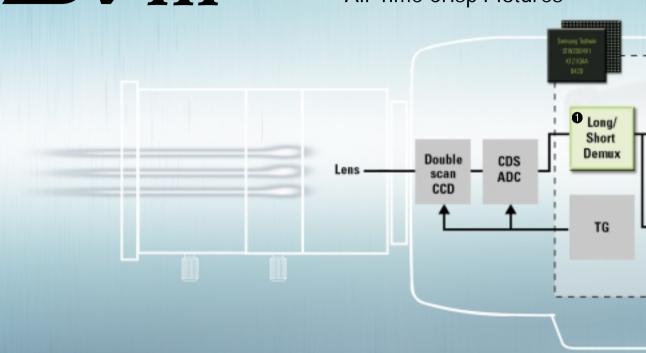






### : The Ultimate Solution for All-Time Crisp P

### All-Time Crisp Pictures

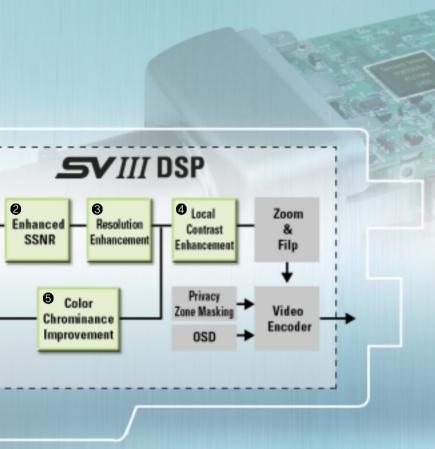


#### Wider Dynamic Range

The SVIII interfaces a double-speed scan CCD, allowing wider dynamic range capturing from the sensor. Using two inputs, 12 bits each, the SVIII can actually handle over 80db of dynamic range. This vast information is handled within the DSP using bus width of up to 23 bits for its internal calculations, to ensure no loosing of data. The dynamic range is then compressed into 10 bits using non-linear, adaptive dynamic range compression algorithm.

#### 2 Enhanced Sensitivity

The SVIII DSP implements powerful sensitivity technology that features a motion adaptive, 3D filtering of the video signal to optimize the signal-to-noise, allowing much better visibility in low-light conditions, at full frame-rate. It also it has day and night (ICR)capability, and gives colors even in significantly low light conditions when other cameras already show B/W images.



#### **6** Superior Color Handling

The **SVIII** unique color metering enables the extended white-balancing range allowing reproduction of accurate colors with wide range of lighting sources. This also means that white balancing can be detected and color mode is supported at low-light situation.

#### 8 Enhanced Resolution

The **SVIII** achieves enhanced resolution of 520TV lines with color sensor (standard cameras feature 470-480TV lines). The new DSP implements adaptive de-mosaic color reproduction algorithm, and extracts more fine details from each pixel without the typical aliasing effects. This feature allows the **SVIII** cameras to reach resolution of more than 520TV lines with color sensor, out of the theoretical 570TV lines that is possible when using monochrome sensor.

#### Advanced Local Contrast

The **SVIII** DSP features advanced local contrast enhancement techniques, to achieve good contrast even in difficult lighting conditions. Differing from other contrast-enhancement techniques, such as histogram stretching, or histogram equalization, this is done on a local basis, and not on the whole image, so it works well even in conditions where intraimage contrast is good, meaning that even if there are dark and bright zones in the image, and it has good global contrast, yet the local fine-details can enjoy from local-contrast handling.

Low-Light...



## Unmatched Low-Light Sensitivity

Super Vision



### of **0.05Lux**

The new SHC-730 premier camera achieves a minimum subject illumination of an incredibly low 0.05Lux @ F1.2 in color and an amazing 0.0004Lux @ F1.2 in Sens Up mode, which ensures that the camera can recognize subjects even in the extreme dark.

The revolutionary SVIII DSP technology uses Intelligent Gain Control and Enhanced SSNR in order to provide the highest level of performance for ultra-low-light imaging. In unfavorable light conditions, it analyzes the input data and applies unique SVIII gain control process to each signal. As a result, it substantially minimizes picture noise as well as provides a extra high sensitivity and unmatched picture quality.

Moreover, reduced noise can help to keep image file sizes down when recorded digitally.

This is because image noise is perceived by the compression engine as being a changed or a varied area of tone.

#### Removing Picture Noise









Standard Camera

SVIII

Standard Camera

SVIII

40 WDR...



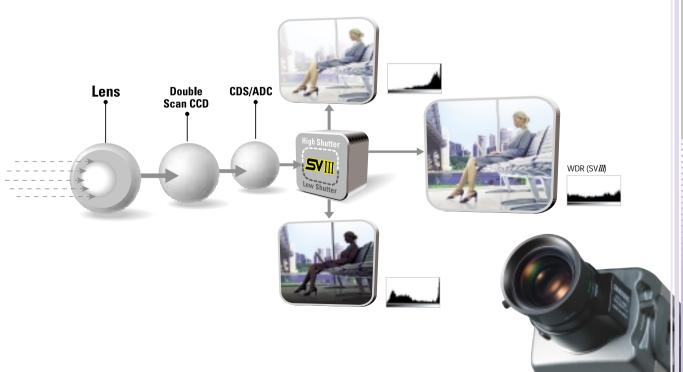
#### Super Vision (

## 126X Outstanding Wide Dynamic Range



One of the common limitations of the cameras designed for low-light imaging is their inability to address the challenges of harsh backlight imaging situations owing to a relatively narrow dynamic range. The SVIII DSP technology employs multiple histogram-based image analysis in order to ensure the highest level of performance not only for ultra-low-light imaging, but for wide dynamic range applications. It carries out an precise analysis on different extreme light levels to get detailed information from the dark part without any saturation from the bright part. This realizes a 126 times extended dynamic range which is equivalent to an outstanding dynamic range of 52dB.

There is no limitation of zone area with the perfect SVIII WDR solution, and the color image is crisper than any other WDR functions.





## Superior Image Resolution of 520TV Lines



The SHC-730 boasts an unusually fine horizontal resolution of 520TV lines to deliver sharp surveillance images. Its unique SV*III* DSP chip offers all-time crisper pictures than normal resolution color cameras, which is perfect for low-light circumstances because it enables the camera to 'see' clearly in the dark and even peer through clouds or fog. In addition, the unit provides increased signal strength without additional noise, which ensures a high signal-tonoise ratio of 50dB.

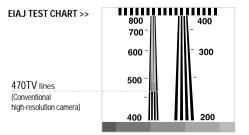


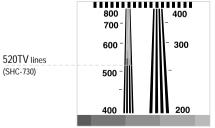


SVIII camera

Super Vision

Conventional high-resolution camera





# Functionality





#### Day & Night Capability with ICR

Lighting conditions are no longer an issue for the new SHC-730. In low light, the camera converts the image from color to monochrome automatically with the function of ICR. The IR cut filter is on when the camera is operating as a color camera for precise color reproduction. And the filter is off for increasing light sensitivity in monochrome mode.





Super Vision **SVII** 

Day

Night



#### **Motion Detection**

The unit transmits alert signal when it detects a motion of an object on the screen. If the camera is connected with an external alarm, user can pay attention to the screen when it sounds alarm. This feature is useful when user has to monitor several screens simultaneously. The area zone can be assigned by OSD setting with the sensitivity control.





Motion Detected



#### Powerful Automatic White Balance

Samsung's automatic white balance technology makes a true color image without tending to be red or blue color. The unit provides wide powerful automatic white balance from 1,800K to 10,500K of color temperature.





#### Privacy Image Masking with Free Position

For the protection of privacy, users can set a masking area up to four areas not to be under surveillance. It is free to set up a area position and size.





#### Digital Zoom (Max. 8 Times)









	SETUP	
-	CAMERA ID	OFF
	BACKLIGHT	WDR 1
	WHITE BAL.	ATW
	MOTION DET.	OFF
	LENS	DC 1
	SHUTTER	ESC
	AGC	MIDDLE
	SENS UP	AUTO <sub>1</sub>
	SSNR	MIDDLE
	SPECIAL	
	FYIT	

#### APPLICATIONS

Up until now in today's video security systems, quality performance of the high sensitivity and WDR functions has rarely been achieved in one camera. However, with the innovative **SVIII** technology, the unmatched low light sensitivity and exceptionally extended dynamic range are successfully integrated into one solution to make the SHC-730 the right choice for perfect 24-hour always-on surveillance.



The SHC-730 is a truly ultra-flexible and extremely cost-effective solution for a massive range of applications from residential and commercial locations to industrial and governmental areas. It is a new concept in security cameras that will set a new standard for the industry.

System Examples



Super Vision 5

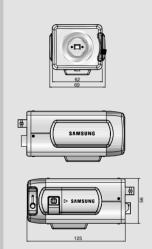
- 1/3" 410,000 Pixels Double Scan Color CCD (PAL: 470,000 Pixels)
- · Min. Illumination
  - Color : 0.05 Lux @ F1.2 normal color mode 0.0004 Lux @ F1.2 - Sens-up mode
  - Monochrome: 0.01 Lux @ F1.2
- Removing Noise with Enhanced SSNR
- WDR: Max. 52dB (EIAJ standard)

- · High Resolution. of 520TV Lines (Color),
  - 570TV Lines (Monochrome)
- Day & Night with ICR (Infrared Cut filter Removal)
- Built-in Motion Detector
- · Privacy Image Masking with Free Position
- OSD (On Screen Display)
  - RS-232C Remote Control
- Signal to Noise Ratio of 50dB Dual Voltage: 24VAC / 12VDC

#### **Specifications**

Mode	Specifications						
C   Total Pixels   811(H) x 508(V)   795(H) x 596(V)   752(H) x 582(V)   752(H) x 582(H)   752(H) x 582(H) x 582(H)   752(H) x 582(H) x	Mode		SHC-730N	SHC-730P			
C         Effective Pixels         768(H) x 494(V)         752(H) x 582(V)           D         Size         1/3 inch, Vertical double density interline CCD           S         Scanning System         2 : 1 Interlace           y         Synchronization         Internal / Line Lock           n         Frequency         Horizontal : 15.734 KHz         Horizontal : 15.625 KHz           Vertical : 59.94 Hz         Vertical : 50.00 Hz           Resolution         Color : 520TV Lines (Min.) / B/W : 570TV Lines (Min.)           Video Output         1.0Vp-p / 75 Q/(Video 0.714Vp-p Sync 0.286Vp-p)         (Video 0.77Vp-p Sync 0.3Vp-p)           S / N (Y signal)         50 dB (AGC Off, Weight On)           Color : 0.05 Lux @ F1.2 - normal color mode (0.13 Lux @ F1.2- EIAJ standard)           0.0004 Lux @ F1.2 - Sens-up mode (0.001Lux @ F1.2- EIAJ standard)           0.0004 Lux @ F1.2 - Sens-up mode (0.001 Lux @ F1.2- EIAJ standard)           0 Lay & Night         (External Day/Night mode control capability via terminal at the back panel)           0 Egan Control         Low, Middle, High, OFF Selectable           1 White Balance         ATW / AWC / Manual (1800° K - 10,500° K)           C Electronic shutter speed         AUTO / Manual (1/60 ~ 1/120,000sec)         AUTO / Manual (1/50 ~ 1/120,000sec)           A Sens-Up         ON / OFF (Selectable limit - X128)	POWER		24VAC / 12VDC (±10%), 4.5W				
D Size 1/3 inch, Vertical double density interline CCD S Scanning System 2:1 Interlace Synchronization Internal / Line Lock Vertical: 59.94 Hz Vertical: 50.00 Hz Vertical: 59.94 Hz Vertical: 50.00 H	С	Total Pixels	811(H) x 508(V)	795(H) x 596(V)			
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y Synchronization   Internal / Line Lock    Requency	D	Size	1/3 inch, Vertical double density interline CCD				
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C. Frequency    Vertical: 59.94 Hz   Vertical: 50.00 Hz	n	Synchronization	Internal / Line Lock				
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Operating Temperature -10°C ~ +50°C Operating Humidity - 90% RH							
Operating Humidity ~ 90% RH							
Weight 480g							
	Weight		480g				

#### Dimensions



#### Rear Panel











www.samsungCCtV.com



Design and specifications are subject to change without notice.



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