

# SMART TECHNOLOGY THAT CONTROLS LIGHT AND DARKNESS!

Perfect picture quality, powerful security performance



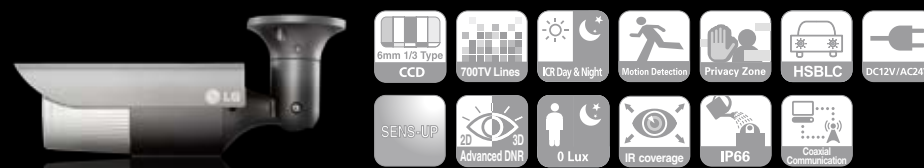
## LCU5300R

700TV Lines High Resolution IR Bullet Camera

### FEATURES

- 6mm (1/3 Type) Exview HAD CCD II
- 2.8~11mm Vari-focal Lens, F1.2
- IR LED : 50m, 32ea
- 650TVL @ Color / 700TVL @ B/W
- Min. illumination
  - Color : 0.03 Lux @ Sens-up Off, F1.2
  - 0.0003 Lux @ Sens-up Auto, F1.2
  - 0.0001 Lux @ Sens-up x512, F1.2
  - B/W : 0 Lux (IR LED ON)
- 2D + 3D DNR
- Day & Night with ICR (Infrared Cut-filter Removal)
- Privacy masking : 14 zones
- Motion detection : 8 zones
- RS-485 control & Coaxial Communication (BN/BP)
- IP66
- Dual voltage : 12V DC / 24V AC (BN/BP)

THE LIGHT AMONG  
THE DARKNESS  
STUCK OUT LIKE A  
SORE THUMB



### | SPECIFICATION |



Model	LCU5300R-BN	LCU5300R-BP	LCU5300R-EN		
Video	Signal System	NTSC	PAL	NTSC	
	Total / Effective Pixels No.	520K / 480K	610K / 570K	520K / 480K	
	Imaging Sensor	6mm (1/3 Type) Exview HAD CCD II			
	Horizontal Resolution	650TVL @ Color / 700TVL @ B/W			
	Image Signal Processor	XDI-V			
	Lens Type	2.8~11mm Vari-focal Lens, F1.2			
	Minimum Illumination (30 IRE)	Color :	0.03 Lux @ Sens-up Off, F1.2		
			0.0003 Lux @ Sens-up Auto, F1.2		
			0.0001 Lux @ Sens-up x512, F1.2		
		B/W :	0 Lux (IR LED ON)		
			0 Lux (IR LED ON)		
	Day & Night	ICR (Auto / Day / Night)			
	IRIS Control	DC			
	Sync. System	Internal / Line Lock		Internal	
	Scanning Frequency (H/V)	15.734 KHz / 59.94 Hz	15.625 KHz / 50 Hz	15.734 KHz / 59.94 Hz	
S/N Ratio	50dB				
Video Output Signal	Tv-p Composite (75Ω)				
IR LED	32 LED's				
IR Distance	50m				
SmartIR	IR Anti-Saturation				
Operational	Backlight Compensation	BLC / HSBLC / Off			
	DNR	2D+3D DNR			
	Exposure	ALC / ELC			
	Auto Gain Control	Off / Low / Middle / High			
	Electronic Shutter Speed	1/60 ~ 1/120,000	1/50 ~ 1/120,000	1/60 ~ 1/120,000	
	Sens-up	Off / Auto (x2, x3, x4, ...x512) / Manual (x2, x3, x4, ...x512)			
	White Balance	Auto / ATW (1,700 °K ~ 11,000 °K) / One Push / Manual			
	Motion Detection	8 Zones			
	Privacy Zone Masking	14 Mask Zones			
	Digital Zoom	x16			
Digital Effect	Off / V-Flip / Mirror / Rotate				
OSD Language	English, Chinese, Korean, Japanese, French, Italian, Spanish, Portuguese, Dutch, German, Polish, Russian, Turkish, Arabic, Hebrew				
Communication	RS-485 (LG, Pelco-D, Pelco-P) Coaxial Communication		RS-485 (LG, Pelco-D, Pelco-P)		
General	Power Source	DC12V / AC24V		DC12V / CCU24V	
	Power Consumption	5.9W @ DC12V, 5.9W @ AC24V		5.4W @ DC12V, 9.9W @ CCU24V	
	Input Current	DC12V : 490mA / AC 24V : 390mA		DC12V : 440mA / CCU24V : 390mA	
	Operating Temperature/Humidity	-10°C ~ 50°C / 0% ~ 80%RH			
	Storage Temperature/Humidity	-20°C ~ 60°C / 0% ~ 90%RH			
	Certifications	FCC, CE, UL, KCC		VCCI	
	Ingress Protection	IP66			
Dimension (H x V x D)	84(W) x 83.5(H) x 320(D)				
Weight	1.3Kg				

### HOME ENTERTAINMENT COMPANY SECURITY OVERSEAS MARKETING TEAM

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The eco-friendly label is attached to those products which have passed LG Electronics' rigorous environmental criteria that evaluate 6 hazardous materials (lead, mercury, cadmium, etc.)

\* Exact products and specifications shown may vary by geographic region and are subject to change without notice.  
Actual products may differ from the images appearing in the catalog.

# LG IR CAMERA LCU5300R

LOOKING AT THE DARKNESS!

LG's IR camera has been upgraded in order to adopt the new XDI-V chip technology. With this remarkable technology, LG IR cameras produce the best image quality, intelligent power control, and flexible surveillance to every security application.



**XDi-V**

**THE EXTREME DYNAMIC IMAGE TECHNOLOGY CONTINUES TO EVOLVE**

XDi-V ISP Technology is engineered to process high quality images from 520K/610K sensors so as to guarantee 650 TV Lines(color) / 700 TV Lines(B/W). Also, the package size is 46% smaller than the existing one, and the high technology process and low power consumption design reduce power consumption by 20~30%. The newly improved 2D+3D-DNR reduces noise and after-images, enabling an optimal monitoring even at low light. Now experience XDi-V that supports Multi languages and coaxial Communication.



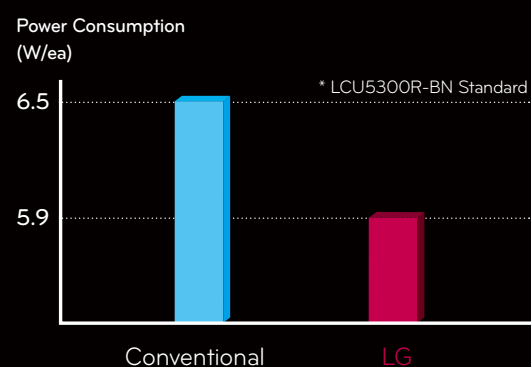
**ADVANCED DNR(2D+3D) 2D + 3D DIGITAL NOISE REDUCTION**

In dark environment, brighter and ghost free images can be obtained by using higher AGC and Image Synthesis Technology.



**LOW POWER CONSUMPTION**

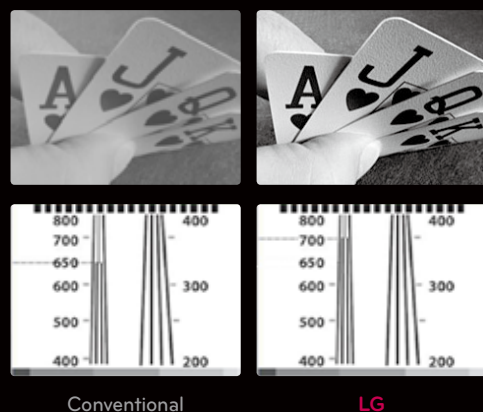
XDi-V helps low power consumption compared to Conventional through application of high performance & low power DSP and high-efficiency power module.



Reduced CO<sub>2</sub> 2.28 kg/yr  
 (0.9W x 24hr x 365 days = 5,256 Kw)  
 1 Tree = CO<sub>2</sub> 5kg

**650 TV Lines (Color) / 700 TV Lines (B/W)**

The world best resolution of 650 TV Lines(Color) / 700 TV Lines(B/W) is realized by combined technology of 3 Line filter, edge enhancement and 520K/610K sensor image.



**520K / 610K(NTSC/PAL) PIXEL**

High Resolution and sharpness can be maintained under strong light source.



**COAXIAL COMMUNICATION**

Using a coaxial cable, it can transmit video and control signal.



**LIGHT THAT SECURES THE DARKNESS!**



**WIDE & LONGER IR COVERAGE**

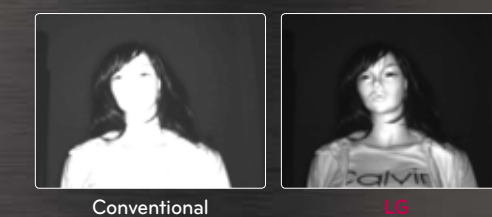
Measures a wide IR angle of view at low luminance to reduce dead spots and Provides clear images for a long distance.



**INTELLIGENT POWER CONTROL**

Conducts a variable control of IR current (PWM) according to scenes to contain a rise in LED temperatures, thereby enhancing LED life.

Enhances LED life by 25% compared with the basic method, due to anti-saturation and variable control of current.

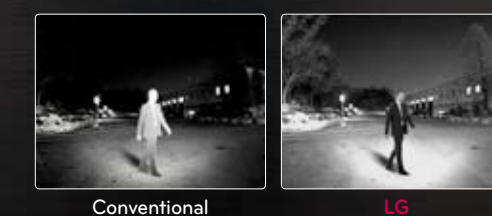


Control Method	Supply of a specific level of power	Current control (application of PWM) [LCU5300R]
IR LED Current	Consumption of maximum current regardless of scenes	Provides optimal current to IR LED to prevent image saturation according to scenes.
Measurement Scene	LED Temperature measured for the same scene	65°C or over
	Expected life	34,000 hr
		60°C or under
		44,000 hr

\* PWM : pulse width modulation

**IR ANTI-SATURATION**

IR control optimization design compensates for surrounding dark areas as much as possible, and prevents saturation.



**PROVIDES UP TO 50m AMPLE VIEWING RANGE**

Making use of IR LED's excellent performance, this product boasts up to 50meters of wide-reaching surveillance.

Furthermore, the highly durable LED provides a long lifespan and strong stability.

