



LG INNOTEK SECURITY SOLUTION

**BEST SECURITY SOLUTION PARTNER – LG INNOTEK
WILL BE WITH YOU FOR YOUR SUCCESSFUL BUSINESS.**





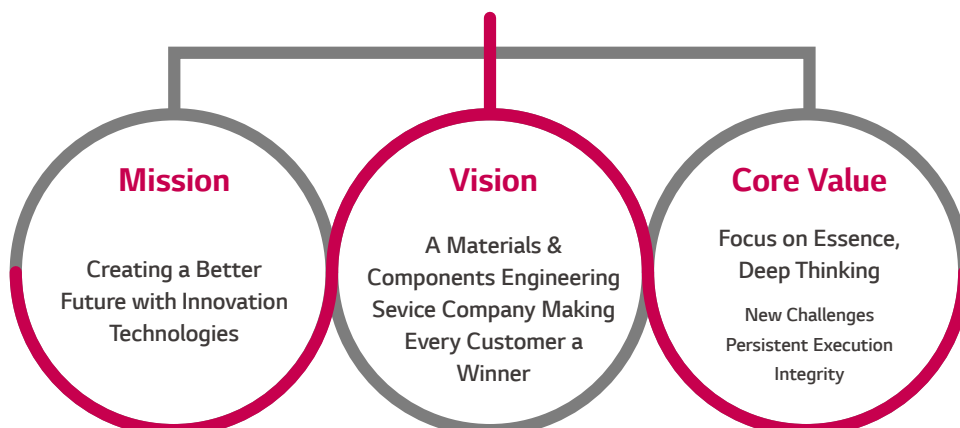
**INSIDE YOUR LIFE!
 LG INNOTEK'S INNOVATIVE TECHNOLOGIES
 ARE DESIGNED FOR A SAFE, CONVENIENT AND
 ENJOYABLE FUTURE!**

LG Innotek is a global materials and components manufacturer that focuses on mobile, automotive, LED, display, semiconductor and IoT business field with its core technologies. LG Innotek will make its utmost effort to provide differentiated value to the customers

LG Innotek Vision

Inside your life!

LG Innotek works to achieve this vision each day.



Business Area



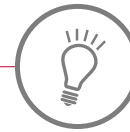
Network Camera

- BLE Module
- Smart Camera for Tv & VR
- Wireless Modem (3G/4G)
- Mobile Router
- Wireless Control System
- Real Time Location System
- Electronic Shelf Label



Automotive

- Motor & Sensor
- Connectivity & ADAS
- For xEV
- Wireless Power Charger
- PCB
- Touch Panel
- Thermoelectric Module
- LED Lighting



LED

- Mobile
- LED Lighting (Package/Chip/Module, Engine, Driver, Wireless Control System)
- UV LED
- Display
- Automotive



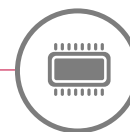
Display

- Photo Mask
- Digital Tuner
- Touch Panel
- Power Module
- Wi-Fi Module
- LED BLU



Mobile

- Camera Module
- Touch Panel
- PCB (Build-up, RFPCB)
- Wireless Power Charger
- Flash LED / LED Package(BLU)
- Optical Bio Sensor Module
- Fingerprint Sensor Module



Semiconductor

- Flip Chip CSP
- CSP (Ultra Thin)
- SiP
- COF
- 2 Metal COF
- COB (Smart IC)

SUPPORTS FROM LG INNOTEK

We support various supports for partners and customers

Technical Supports

- Technical Seminar
- New Products Introduction
- Share of related Technique

Marketing Supports

- Promotion supporting
- Marketing Material (Catalog/Demo sample)
- Project developments

Exhibition Supports

- Products sample
- Marketing Material
- Join the LG group exhibition



Technical Supports



Marketing Supports



Exhibition Supports

High Sensitivity and Up to 4MP Resolution Support Qualified Surveillance System in 24/7



Various features such as H.265 compression technology, high resolution, wide dynamic range and video analytic allow the clear and fine video for enhanced surveillance system.



H.265 codec's innovated technology

Applying H.265/HEVC high compression, high quality video is serviced with less bandwidth consumption and storage cost will be saved.

Video coding standard	Average bit rate reduction compared to			
	H.264 / MPEG-4 AVC HP	MPEG-4 ASP	H.263 HLP	H.262 / MPEG-2 MP
HEVC MP	35.4%	63.7%	65.1%	70.8%
H.264 / MPEG-4 AVC HP	-	44.5%	46.6%	55.4%
MPEG-4 ASP	-	-	3.9%	19.7%
H.263 HLP	-	-	-	16.2%



Best monitoring with 4MP high resolution

4MP video allows 4:3 original video screen rate which is optimized for surveillance monitor.



3.3-10mm vari focal motorized lens

Motorized vari focal lens allows easy zoom in and zoom out according to installation environment.



Enhanced video analytic

With advanced video analytic function, efficient and optimized surveillance system operation is possible.

NVR



Features		RNRZ-B510A	RNRZ-B520A
	IP Camera Input	10 channels	20 channels
Video	Resolution	QCIF, CIF, 2CIF, DCIF, 4CIF, VGA, 720P (1280x720), UXGA, 1080P (1920x1080), 3MP (2048x1536), 4MP (2560x1440), 5MP (2560x1920), 6MP (2752x2208), 4K (3840x2160)	QCIF, CIF, 2CIF, DCIF, 4CIF, VGA, 720P (1280x720), UXGA, 1080P (1920x1080), 3MP (2048x1536), 4MP (2560x1440), 5MP (2560x1920), 6MP (2752x2208), 4K (3840x2160)
	Video Compression	H.264, H.265	H.264, H.265
	Local Display	1 x HDMI, 1 x VGA	1 x HDMI, 1 x VGA
Live View	Multi Screen Display (Monitor)	1, 4, 6, 8, 9, 10	1, 4, 6, 8, 9, 10, 16, 20
	Function	E-Zoom	E-Zoom
	Resolution	QCIF, CIF, 2CIF, DCIF, 4CIF, VGA, 720P (1280x720), UXGA, 1080P (1920x1080), 3MP (2048x1536), 4MP (2560x1440), 5MP (2560x1920), 6MP (2752x2208), 4K (3840x2160)	QCIF, CIF, 2CIF, DCIF, 4CIF, VGA, 720P (1280x720), UXGA, 1080P (1920x1080), 3MP (2048x1536), 4MP (2560x1440), 5MP (2560x1920), 6MP (2752x2208), 4K (3840x2160)
Recording	Mode	Manual, Continuous, Schedule, Event (Pre/Post)	Manual, Continuous, Schedule, Event (Pre/Post)
	Event Trigger	Manual, Timing, Motion detection, Port alarm, VCA alarm, Video occlusion	Manual, Timing, Motion detection, Port alarm, VCA alarm, Video occlusion
	Tag	Yes	Yes
Search & Playback	Search Mode	Ch No., Record type, Date & Time, File type & VCA	Ch No., Record type, Date & Time, File type & VCA
	Resolution	QCIF, CIF, 2CIF, DCIF, 4CIF, VGA, 720P (1280x720), UXGA, 1080P (1920x1080), 3MP (2048x1536), 4MP (2560x1440), 5MP (2560x1920), 6MP (2752x2208), 4K (3840x2160)	QCIF, CIF, 2CIF, DCIF, 4CIF, VGA, 720P (1280x720), UXGA, 1080P (1920x1080), 3MP (2048x1536), 4MP (2560x1440), 5MP (2560x1920), 6MP (2752x2208), 4K (3840x2160)
	Synchronized Playback	4ch@4K, 6MP, 5ch@5MP, 8ch@4MP, 9ch@3MP, 10ch@1080P	4ch@4K, 6MP, 5ch@5MP, 8ch@4MP, 9ch@3MP, 16ch@1080P
Storage	Max. Internal HDDs	4 x 3.5" HDD (Max. 24TB, 6TB / each)	4 x 3.5" HDD (Max. 24TB, 6TB / each)
	RAID	None	None
	E-SATA	None	None
Event	Event Triggers	Manual, Timing, Motion detection, Port alarm, VCA alarm, Video occlusion	Manual, Timing, Motion detection, Port alarm, VCA alarm, Video occlusion
	Event Notification	Recording, Email	Recording, Email
Network	Open Protocol	ONVIF (Profile S)	ONVIF (Profile S)
	Network Protocol	TCP / UDP / HTTP / MULTICAST / UPnP / DHCP / PPPoE / DDNS / NFS / FTP / NTP / HTTPS / RTSP / SMTP / SADP	TCP / UDP / HTTP / MULTICAST / UPnP / DHCP / PPPoE / DDNS / NFS / FTP / NTP / HTTPS / RTSP / SMTP / SADP
	Max. Connections	Up to 32 users / 160ch videos	Up to 32 users / 160ch videos
	Web Viewer	IE8, IE9, IE10, IE11, Chrome30, Firefox24	IE8, IE9, IE10, IE11, Chrome30, Firefox24
	Ethernet	1 x 10 / 100 / 1000M	1 x 10 / 100 / 1000M
Interface	Video Out	1 x HDMI (up to 3840x2160 @ 60Hz) 1 x VGA (up to 1080p @ 60Hz)	1 x HDMI (up to 3840x2160 @ 60Hz) 1 x VGA (up to 1080p @ 60Hz)
	Audio In / Out	1 In / 1 Out (RCA)	1 In / 1 Out (RCA)
	Alarm In / Out	16 In / 4 Out	16 In / 4 Out
	Control	N/A	N/A
	USB	1 x USB 2.0, 1 x USB 3.0	1 x USB 2.0, 1 x USB 3.0
	General	Power Source	DC 12V / 3A
Max. Power Consumption		40W (without HDD)	40W (without HDD)
Operating Temperature / Humidity		-10°C - 50°C / 10% - 90%RH	-10°C - 50°C / 10% - 90%RH
Standard Approvals		CE, LVD, KC	CE, LVD, KC
Language		English, Korean, Turkish, Chinese, Spanish, Japanese	English, Korean, Turkish, Chinese, Spanish, Japanese
Dimensions		75 x 440 x 347 mm	75 x 440 x 347 mm
Weight		3.8 Kg (HDD not included)	3.8 Kg (HDD not included)

※ 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.