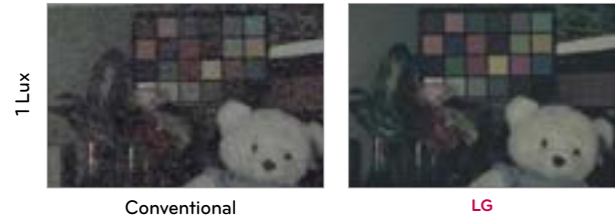## IP CAMERA TERMS & FEATURES

LG ipsolute

LG Ipsolute refers to the route that provides solutions alongside IP products as the integrated brand of LG security network products. LG Ipsolute IP camera and server can easily connect to the Internet, use diverse compression methods, and transmit HD images at low beat ratio without loss. In addition, the network security system is implemented by the basic web viewer, mobile applications, and video management suite enabling remote control and monitoring.
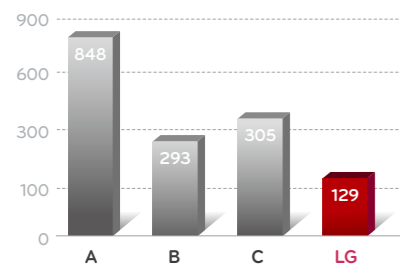
LOW ILLUMINATION

Low luminance noise is excellent with XDI-II

1 Lux

Conventional | LG

LOW LATENCY

Possesses excellent network performance with almost no latency, compared to the other products

900	
600	
300	
100	
0	

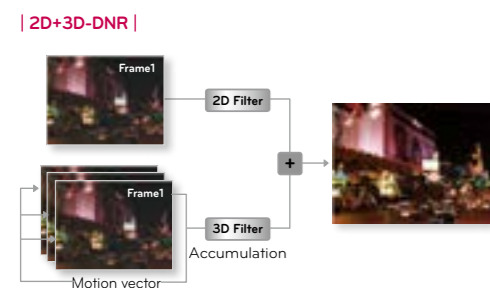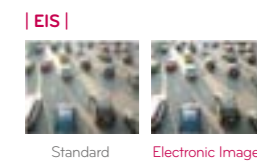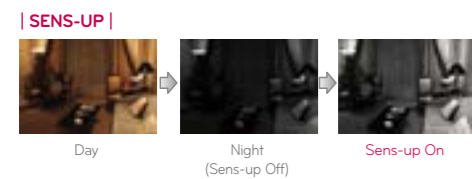848 | 293 | 305 | 129

A | B | C | LG

SD SLOT

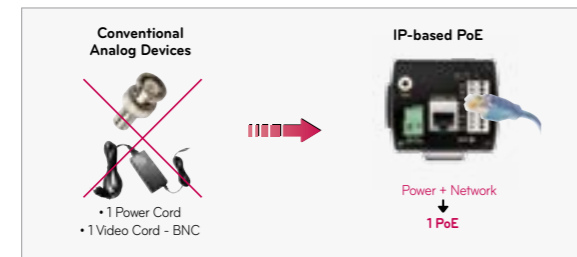we provide SD SLOT for video buffering and backup event video separately. (SD Memory chip is not included)

SENS-UP / EIS / 3D-DNR

XDI-II can process Full HD superior images and apply WDR, Sens-up, EIS, and 3D-DNR functions.

| SENS-UP |

Day | Night (Sens-up Off) | Sens-up On

| EIS |

Standard | Electronic Image Stabilization

| 2D+3D-DNR |

Frame1
2D Filter
+
Frame1
3D Filter
Accumulation
Motion vector

LOW INSTALLATION COST WITH PoE

Power over Ethernet (PoE) refers to a technology that allows IP devices to receive power over existing LAN cablings. PoE does not need any separate power installation connection and thus simplifies installation. The technology is space-saving and allows devices to receive power and data over existing infrastructures, without needing to upgrade them.
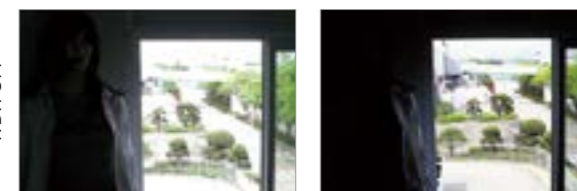
Conventional Analog Devices
• 1 Power Cord
• 1 Video Cord - BNC

IP-based PoE
Power + Network
1 PoE

80DB WDR

XDI-II offers 80dB of Dynamic Range and creates nearly no noise, enabling users to better see objects even with backlight.

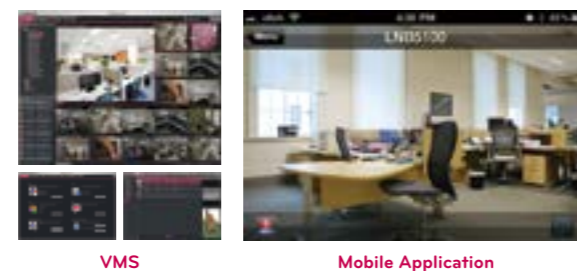|	LG		Other Camera	
WDR	off	on	off	on
Detected zones<0.98	23	40	22	34.8
DR (f-stops)	7.83	13.3	7.37	11.6
DR (dB)	47.1366	80.066	44.3674	69.832

WDR OFF

WDR ON

Conventional | LG

LG IPSOLUTE VMS / MOBILE APPLICATION

The LG Video Management System is an IP-Surveillance software that works with the LG Video Server and LG IP cameras to provide video monitoring, recording setting and event management functions.

VMS | Mobile Application

LG ipsolute

1.3 Megapixel HD IP Dome Camera

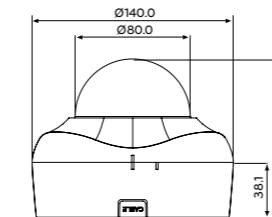| IP DOME CAMERA |

LND3100

Onvif | PSIA

Features

- 6.08 mm (1/3 type) CMOS
- 3 mm F2.0
- 30 fps @ 1280 x 1024, 720p(HD)
- Min. Illumination
  - Color : 0.7 Lux @ F2.0
  - B/W : 0.7 Lux @ F2.0
- H.264 (High Profile Supported) / MJPEG

- 80dB of Wide Dynamic Range
- 2D+3D DNR
- Digital Day & Night
- Dynamic Profile (Up to 7)
- Region Of Interest Streaming
- LG Ipsolute VMS, Mobile App
- Micro SD Slot
- PoE / DC12V

Rear View (World Wide Type)

Dimension (Unit : mm)

Ø140.0
Ø80.0
110.0
138.1

Model		LND3100
Camera	Image Sensor	6.08mm (1/3 Type) CMOS
	Lens	3mm F2.0
	Resolution	Up to 1280 x 1024
	Min. Illumination	Color : 0.7 Lux @ F2.0
		B/W : 0.7 Lux @ F2.0
	Day / Night	Digital (Auto / Day / Night)
	WDR	80 dB
	Image Enhancement	Backlight Compensation / 2D+3D-DNR / Exposure Control / Sens-up Control / AGC / White Balance / Privacy Masking / EIS / Sharpness / Digital Zoom
Video/Audio	Video Compression	H.264 (High Profile Supported) / MJPEG
	Frame Rate	30 fps @ 1280 x 1024, 30fps @ 720p(HD)
	Multi-Streaming	Dynamic Profile (Up to 7)
	ROI Streaming	Yes
	Open Protocol	ONVIF 1.02, PSIA 1.1
Event	Motion Detection	Yes
	Event Notification	Email, FTP
	Pre/Post Event Buffering	5 / 5 Seconds
Interface	Video In / Out	1 RCA Out
	SD Slot	Micro SD
Network	Ethernet	RJ-45 10/100 BASE-T
	Security	Password Protection, HTTPS (SSL, TLS)
	Protocol	IPv4/6 - TCP/IP, UDP, HTTP, HTTPS, RTP, RTSP, DHCP, ICMP, IPv4 - FTP, SMTP, NTP, ARP, SNMP v1/v2c/v3, DDNS (LG)
	Web Viewer	Microsoft Internet Explorer 7.0 or above
	Video Management Software	LG Ipsolute VMS, Mobile Application
	Connections	Up to 10
General	Power Source	PoE / DC12V
	Power Consumption	5.9 W
	Operating Temperature / Humidity	-10°C ~ 50°C / 0% ~ 80%RH
	Standard Approvals	UL, FCC, CE, KCC, Gongan
	Color / Material	White / Plastic
	Ingress Protection	-
	Dome Cover	Clear type
	3-Axis	Yes
	Dimension (Ø x H) mm	140 x 110
	Weight	506 g

• 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 Life's Good

LG MEGAPIXEL IP CAMERA

DELIVERS SUPERIOR RESOLUTION

LG ipsolute

MEGAPIXEL IP CAMERA TECHNOLOGY

Based on the XDI-II ISP technology, LG provides HD image of excellent quality. Also Sens-up, EIS, 3D-DNR and WDR functions compensate the HD progressive images in order to be much more suitable in any monitoring situation.

MEGAPIXEL SUPER RESOLUTION
LG IP camera provides better surveillance, thanks to its higher resolution image quality.
The XDI-II ISP is engineered to complement the IP in image quality through megapixel technology.

D1   x4   1.3 Mega

REGION OF INTEREST STREAMING
Users can compose profile streaming region of interest.
Users who are interested in specific region can use bandwidth efficiently

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| IP BOX CAMERA |
LNB5100
LNB3100

1.3 Megapixel HD IP Dome Camera

Features

- 6.08 mm (1/3 Type) CMOS
- CS Mountable
- 30 fps @ 1280 x 1024, 720p(HD)
- Min. Illumination
  - Color : 0.3 Lux @ F1.2
  - B/W : 0.005 Lux @ F1.2 (LNB5100)
     0.3 Lux @ F1.2 (LNB3100)
- H.264 (High profile supported) / MJPEG
- 80dB of Wide Dynamic Range
- ICR Day & Night (LNB5100)
- 2D+3D DNR
- Dynamic Profile (Up to 7)
- Region Of Interest Streaming
- Video Analytics Embedded (LNB5100)
  (Intelligent Motion Detection, Trip Zone, Object Counting, Streaming Metadata)
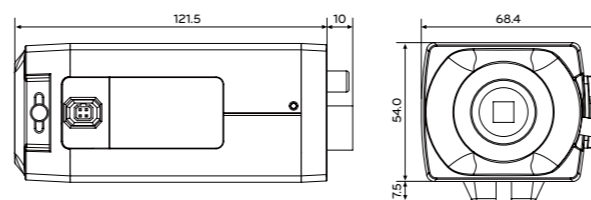- LG Ipsolute VMS, Mobile App
- Micro SD Slot
- PoE / DC12V

Rear View

<LNB5100>   <LNB3100>

Dimension (Unit : mm)

121.5   10   68.4   54.0   11.5

Model		LNB5100	LNB3100
Camera	Image Sensor	6.08 mm (1/3 Type) CMOS	
	Mount Type	CS Mountable	
	Resolution	Up to 1280 x 1024	
	Min. Illumination	Color : 0.3 Lux @ F1.2	Color : 0.3 Lux @ F1.2
		B/W : 0.005 Lux @ F1.2	B/W : 0.3 Lux @ F1.2
	Day / Night	ICR (Auto / Day / Night)	Digital (Auto / Day / Night)
	WDR	80 dB	
	Image Enhancement	Backlight Compensation / 2D+3D-DNR / Exposure Control / Sens-up Control / AGC / White Balance / Privacy Masking / EIS / Sharpness / Digital Zoom / Scene mode	Backlight Compensation / 2D+3D-DNR / Exposure Control / Sens-up Control / AGC / White Balance / Privacy Masking / EIS / Sharpness / Digital Zoom
Video/Audio	Video Compression	H.264 (High Profile Supported) / MJPEG	
	Frame Rate	30 fps @ 1280 x 1024, 30fps @ 720p(HD)	
	Multi-Streaming	Dynamic Profile (Up to 7)	
	ROI Streaming	Yes	
	Open Protocol	ONVIF 1.02, PSIA 1.1	
	Audio Compression	G.711, G.726	–
	2-Way Audio	Yes	–
Event	Motion Detection	Yes	
	Event Notification	Relay Out / Email / FTP	Email / FTP
	Pre Event Buffering	5 / 5 Seconds	
	Video Analytics Embedded	Intelligent Motion Detection, Trip Zone, Object Counting, Streaming Metadata	–
Interface	Video In/Out	1 RCA Out	
	Audio In/Out	1 In / 1 Out	–
	Alarm In/Out	1 In / 1 Out	–
	SD Slot	Micro SD	
Network	Ethernet	RJ-45 10/100 BASE-T	
	Security	Password Protection, HTTPS (SSL, TLS)	
	Protocol	IPv4/6 - TCP/IP, UDP, HTTP, HTTPS, RTP, RTSP, DHCP, ICMP	
		IPv4 - FTP, SMTP, NTP, ARP, SNMP v1/v2c/v3, DDNS (LG)	
	Web Viewer	Microsoft Internet Explorer 7.0 or above	
	Video Management Software	LG Ipsolute VMS, Mobile Application	
	Connections	Up to 10	
General	Power Source	PoE / DC12V	
	Power Consumption	5.9 W	
	Operating Temperature / Humidity	-10°C ~ 50°C / 0% ~ 80%RH	
	Standard Approvals	UL, FCC, CE, KCC, Gongan	
	Color / Material	Black & Silver / Aluminum	
	Dimension (W x H x D) mm	68.4 x 61.5 x 131.5	
	Weight	365 g	357 g

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| IP DOME CAMERA |
LNV5100
LND5100

1.3 Megapixel HD IP Dome Camera

<LND5100>
<LNV5100>

FEATURES

- 6.08 mm (1/3 type) CMOS
- 2.8 ~ 10 mm F1.2
- 30 fps @ 1280 x 1024, 720p(HD)
- Min. Illumination
  - Color : 0.3 Lux @ F1.2
  - B/W : 0.005 Lux @ F1.2
- H.264 (High profile supported) / MJPEG
- 80 dB of Wide Dynamic Range
- ICR Day & Night
- 2D+3D DNR
- Dynamic Profile (Up to 7)
- Region Of Interest Streaming
- Video Analytics Embedded
  (Intelligent Motion Detection, Trip Zone, Object Counting, Streaming Metadata)
- LG Ipsolute VMS, Mobile App
- Micro SD Slot
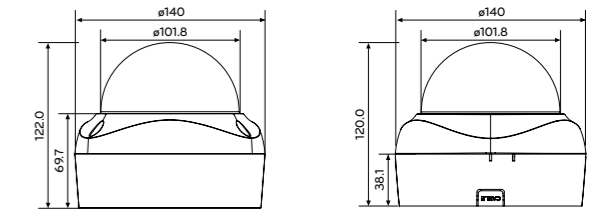- Vandal Proof / IP66 (LNV5100)
- PoE / DC12V

Rear View (World Wide Type)

<LNV5100>   <LND5100>

Dimension (Unit : mm)

ø140   ø101.8   122.0   69.7
ø140   ø101.8   120.0   38.1

<LNV5100>   <LND5100>

Model		LNV5100	LND5100
Camera	Image Sensor	6.08 mm (1/3 Type) CMOS	
	Lens	2.8-10 mm F1.2	
	Resolution	Up to 1280 x 1024	
	Min. Illumination	Color : 0.3 Lux @ F1.2	
		B/W : 0.005 Lux @ F1.2	
	Day / Night	ICR (Auto / Day / Night)	
	WDR	80 dB	
	Image Enhancement	Backlight Compensation / 2D+3D-DNR / Exposure Control / Sens-up Control / AGC / White Balance / Privacy Masking / EIS / Sharpness / Digital Zoom / Scene mode	
Video/Audio	Video Compression	H.264 (High Profile Supported) / MJPEG	
	Frame Rate	30 fps @ 1280 x 1024, 30fps @ 720p(HD)	
	Multi-Streaming	Dynamic Profile (Up to 7)	
	ROI Streaming	Yes	
	Open Protocol	ONVIF 1.02, PSIA 1.1	
	Audio Compression	G.711, G.726	
	Two-way Audio	Yes	
Event	Motion Detection	Yes	
	Event Notification	Relay Out, Email, FTP	
	Pre/Post Event Buffering	5 / 5 Seconds	
	Video Analytics	Intelligent Motion Detection, Trip Zone, Object Counting, Streaming Metadata	
Interface	Video In / Out	1 RCA Out	
	Audio In / Out	Alarm In / Out	1 In / 1 Out	1 In / 1 Out	
	SD Slot	Micro SD	
Network	Ethernet	RJ-45 10/100 BASE-T	
	Security	Password Protection, HTTPS (SSL, TLS)	
	Protocol	IPv4/6 - TCP/IP, UDP, HTTP, HTTPS, RTP, RTSP, DHCP, ICMP, IPv4 - FTP, SMTP, NTP, ARP, SNMP v1/v2c/v3, DDNS (LG)	
	Web Viewer	Microsoft Internet Explorer 7.0 or above	
	Video Management Software	LG Ipsolute VMS, Mobile Application	
	Connections	Up to 10	
General	Power Source	PoE / DC12V	
	Power Consumption	5.9 W	
	Operating Temperature / Humidity	-10°C ~ 50°C / 0% ~ 80%RH	
	Standard Approvals	UL, FCC, CE, KCC, Gongan	
	Color / Material	White / Aluminum	White / Plastic
	Ingress Protection	Vandal proof, IP66	–
	Dome Cover	Clear Type	
	3-Axis	Yes	
	Dimension (Ø x H) mm	140 x 122	140 x 120
	Weight	964 g	610 g

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