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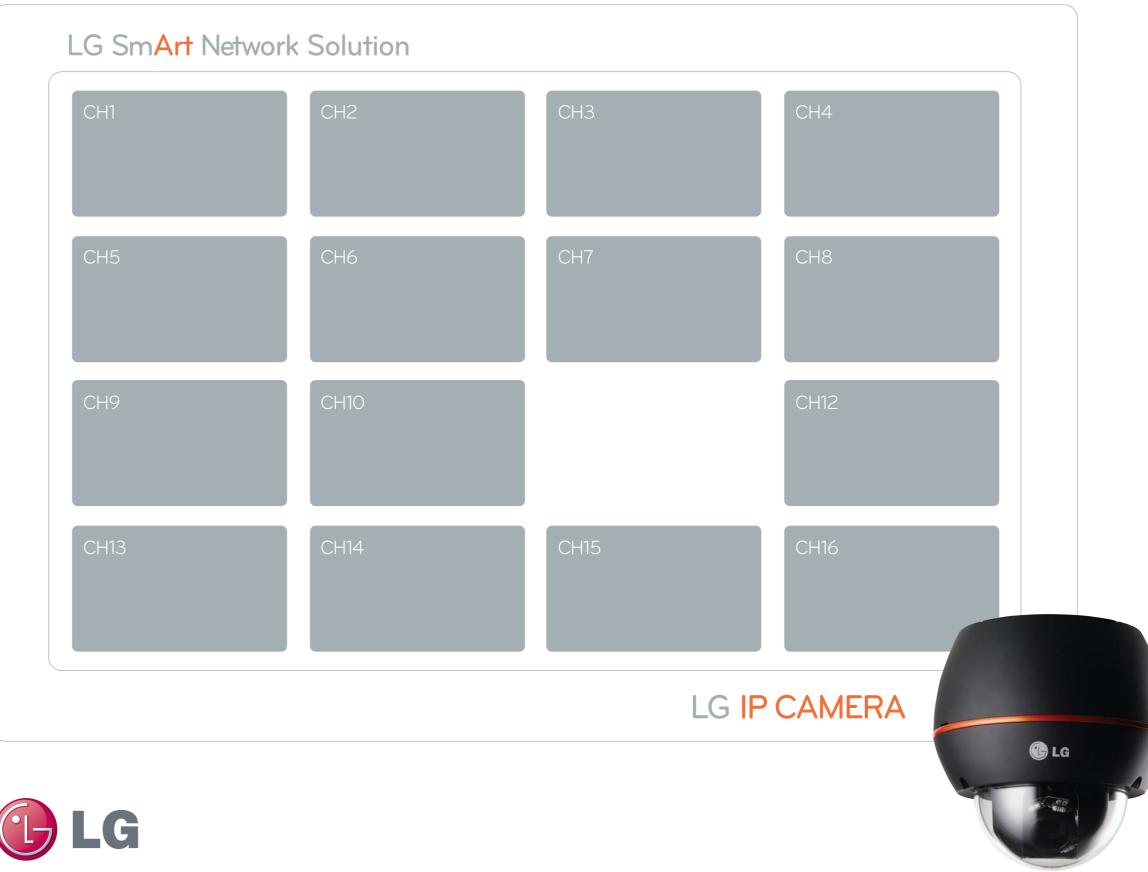
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### **Business Solutions Company**

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 $\cdot$  Exact products and specifications shown may vary by geographic region and are subject to change. Actual products may differ from the images appearing in the catalog. · 2009 July version.



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# When security and network meet the world becomes bigger



# Advanced Technology

A comprehensive network solution that brings analog and digital together. Through highly-evolved transmission technology, connectivity is worldwide and networking can be achieved with a variety of devices. With remote management capabilities, no matter where you are in the world, it's just like being on the scene.

 Simple and easy installation
 Economical installation cost Reduced upkeep costs

# Perfect Image

Life-like quality that's good enough to nab even the perfect criminal. You will be able to view the highest possible image quality using the smallest amount of data space and enjoy a clean and clear image thanks to the XDI DSP Chip Solution that prevents blur and adjusts for video quality.

- The highest picture quality with the lowest data usage
- Fluid network response
  Outstanding flexibility, powerful compatibility

# Active Management

Timely and rapid response to problems from occurrence through resolution. With the saving and storage of key scenes and a count of people in and out, the artificial intelligence system allows early diagnosis and recognition of problem situations actively, offering the perfect total care solution.

• A real-time remote care system • Active monitoring system • Diagnosis and procurement of evidence

# What makes the LG IP Solution different?

LG started out with the foundation of quality and performance of an analog camera, then digitize information, employ the H.264 codec and apply LG XDI technology, to offer up a truly advanced camera. But that's not all. Harmonizing innovative technology including dual streaming and full duplex audio along with VCA (Video Contents Analysis) in the IP camera, and LG's unique design, LG is heading up a new trend in security solution.



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High video quality and resolution in D1 video recording feature that employs the latest H.264 Codec.



Dual-streaming capabilities for customized bandwidth management with two codecs, H.264 and MJPEG



Superior performance in backlight or low light conditions with the XDI chip



Full Duplex Audio[G.711(a-law, u-law), G.726]



Provides a Smart Station that manages up to 64 cameras.



3 Powers support (AC24V, DC12V, PoE)



# IP Fixed Network Camera **LSW900P/**



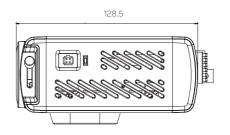


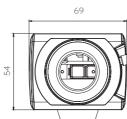
# Features

- 540 TV Lines
- 1/3" Vertical Double Interline CCD
- Min. Illumination : 0.1 Lux (Color mode, Sens up off) 0.00003lux (B/W Mode, Sens up on)
- Compression : H.264, MJPEG(Dual Stream Support)
- Resolution (Max) : 704X480(NTSC), 704X576(PAL)
- Frame Rate (Max): 30 fps/25fps(NTSC/PAL) @ D1
- ICR True D&N
- Wide Dynamic Range
- 1port Video Output
- Two-way Audio
- Alarm In/Out
- Protocol : TCP/IP, HTTP, HTTPS, RTP, RTSP, UDP, DHCP, FTP, SMTP, NTP, ARP, ICMP, DDNS(LG)
- Client/Server Management S/W (Max 64ch Live/ NAS Recoding support)
- VCA(Video Contents Analysis) support
- 8 Privacy Masking
- AC24V, DC12V, PoE
- RS-485 Support

### Dimensions (unit : mm)

•W:69mm •H:54mm •D:128.5mm







### Can I select only the screens I want without looking at all the others?

Checking screens with no problem is just a waste of time, efforts and costs. The intelligent monitoring system that detects screens with problems and enables prompt responses minimizes risks by quickly handing with sudden accidents.

# **Specifications**

Model	L
Туре	IP Indoo
Image sensor	1/3" Vertical D
Lens	C/C
Day & Night	ICR D
Min illumination	Color : 0.1L B/W : 0.0000
Compression	Dual Stream Sup
Resolution(Max)	704 x 480(NTS
Backlight Compensation	BLC / WDF
Frame per second	30 fps/25fps
Audio	Full Duple
Alarm In/Out	1 Digital inpu
Video In/Out	1port vide
Intelligent video	Advanced Mot
Event Notification	Relay,
Ethernet Networks	1port 10
Network Protocol	TCP/IP, HTTP,HTTPS, RTF NTP, ARP, I
Management	Web GUI, Managen
Security	Multi level user ID/pa
Power	AC24V
Serial Connectors	R
Operating Temp.	-10°
Dimensions	69(W) X 5

\* Clossing line, Intruder Detecton, Object Counting, Tampering, Object Removal (Model with VCA : LSW901P/N)



04 LG IP CAMERA

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### LSW900P/N or Box Camera Double interline CCD CS Mount Day & Night Lux(sens-up off) 03Lux(sens-up on) pport(H.264, MJPEG) SC), 704 x 576(PAL) R / HSBLC / OFF os(NTSC/PAL) @ D1 lex(G.726, G.711) out / 1 Relay output eo output(BNC) otion Detection(VCA\*) SMTP. FTP )/100Base-Tx P, RTSP, UDP, DHCP, FTP, SMTP, ICMP, DDNS(LG) ment Software(Max 64ch) assword HTTPS encryption /, DC12V, PoE RS-485 )°C~50°C 54(H) × 128.5(D)

# IP Dome Network Camera LVW700P/N

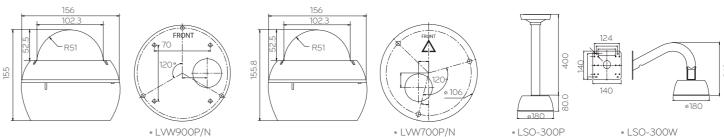


# Features

- 540 TV Lines
- 1/3" Vertical Double Interline CCD
- Varifocal Lens (2.8~11mm)
- Min. Illumination : 0.1 Lux (Color mode, Sens up 0.00003lux (B/W Mode, Sens up on)
- Compression : H.264, MJPEG(Dual Stream Su
- Resolution (Max) : 704 X480(NTSC), 704 X576(
- Frame Rate (Max) : 30 fps/25fps(NTSC/PAL)
- ICR True D&N
- Wide Dynamic Range
- 1port Video Output
- Two-way Audio
- Alarm In/Out
- Protocol : TCP/IP, HTTP, HTTPS, RTP, RTSP, U DHCP, FTP, SMTP, NTP, ARP, ICMP, DDNS(LC
- Client/Server Management S/W (Max 64ch Live/NAS Recoding support)
- VCA (Video Contents Analysis) support
- 8 Privacy Masking
- AC24V, DC12V, PoE
- Vandal Proof, IP66, 3-Axis (LVW900P/N)
- 3-Axis (LVW700P/N)

### Dimensions (unit : mm)

LVW900P/N • Diameter : 156mm • H : 155mm LVW700P/N • Diameter:156mm • H:155.8mm





their children are up to at school?

LVW900P/N

LVW700P/N

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## **Specifications**

	Model LVW900P/N / LVW700P/N		
off) port) PAL) 2 D1	Туре	IP Outdoor Dome Camera / IP Indoor Dome Camera	
	Image sensor	1/3" Vertical Double interline CCD	
	Lens	Verifocal Lens (2.8~11mm)	
	Day & Night	ICR Day & Night	
	Min illumination	Color : 0.1Lux (sens-up off) B/W : 0.00003Lux (sens-up on)	
	Compression	Dual Stream Support (H.264 , MJPEG)	
	Resolution(Max)	704 × 480(NTSC), 704 × 576(PAL)	
	Backlight Compensation	BLC / WDR / HSBLC / OFF	
	Frame per second	30 fps/25fps(NTSC/PAL) @ D1	
	Audio	Full Duplex(G.726, G.711)	
	Alarm In/Out	1 Digital input / 1 Relay output	
	Video In/Out	1port video output(RCA)	
	Intelligent video	Advanced Motion Detection(VCA*)	
	Event Notification	Relay, SMTP, FTP	
	Ethernet Networks	1port 10/100Base-Tx	
	Network Protocol	TCP/IP, HTTP, HTTPS, RTP, RTSP, UDP, DHCP, FTP, SMTF NTP, ARP, ICMP, DDNS(LG)	
	Management	Web GUI, Management Software(Max 64ch)	
	Security	Multi level user ID/password HTTPS encryption	
	Power	AC24V, DC12V, PoE	
	Operating Temp.	-30°C ~ 50°C(Heater) / -10°C ~ 50°C	
	Dimensions	156(Diameter) X 155(H) / 156(Diameter) X 155.8(H)	
	Others	Vandal Proof, IP66, 3-Axis / 3-Axis	

(Model with VCA : LVW901P/N, LVW701P/N) Brackets

# What kind of equipment would we need to show the parents of kindergartners what

If you have an IP camera installed, it's really quite simple. If you simply connect to the Internet and open the web client screen, without any other additional equipment, anyone can monitor the children in real time.

# Network Video Encoder LVS301



## Features

- Video Server
- 1Ch Video Input (CVBS)
- Compression : H.264, MJPEG(Dual Stream Support)
- Resolution(Max) : 704 × 480(NTSC), 704 × 576(PAL) • Frame Rate(Max) : 30 fps/25fps(NTSC/PAL) @ D1
- 1port Video output
- Two-way Audio • Alarm In/Out
- Protocol : TCP/IP, HTTP, HTTPS, RTP, RTSP, UDP, DHCP, FTP, SMTP, NTP, ARP, ICMP, DDNS(LG)
- Client/Server Management S/W (Max 64ch Live/NAS Recoding support)
- VCA (Video Contents Analysis) support
- 8 Privacy Masking
- AC24V, DC12V, PoE
- RS-422& RS-485 Support

# **Specifications**

Model	LVS301
Туре	IP Video Server
Compression	Dual Stream Support(H.264 , MJPEG)
Resolution(Max)	704×480(NTSC), 704×576(PAL)
Frame per second	30 fps/25fps(NTSC/PAL) @ D1
Audio	Full Duplex(G.726, G.711)
Alarm In/Out	1 Digital input / 1 Relay output
Video In/Out	1port video input/output(BNC)
Intelligent video	Advanced Motion Detection(VCA*)
Event Notification	Relay, SMTP, FTP
Ethernet Networks	1port 10/100Base-Tx
Network Protocol	TCP/IP, HTTP, HTTPS, RTP, RTSP, UDP, DHCP, FTF NTP, ARP, ICMP, DDNS(LG)
Management	Web GUI, Management Software(Max 64c
Security	Multi level user ID/password HTTPS encrypti
Power	AC24V, DC12V, PoE
Serial Connectors	RS-422 & RS-485
Operating Temp.	-10°C ~ 50°C
Dimensions	170.4(W) × 56.2(H) × 130.2(D)
* Classing line Intruder	Detecton Object Counting Tampering Object Removal

\* Clossing line, Intruder Detecton, Object Counting, Tampering, Object Removal (Model with VCA : LVS311)

# Dimensions (unit : mm)

• W : 170.4mm • H : 56.2mm • D : 130.2mm











### Isn't there something we can do about illegal parking that clogs up the streets?

Traffic jams caused by illegally parked vehicles. It's just not possible to have someone watching a monitor all-day long. But with VCA(Video Contents Analysis), you don't have to worry. If the designated time has passed and a parked vehicle hasn't been moved from a particular area, a warning announcement can be sounded through the speaker.

06 LG IP CAMERA

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# A security management system that extends farther, and gives you more freedom

# LG Smart Station

The ability to cover a lot of screens at the same time to assess problem areas and tackle them rapidly depends precisely on what kind of software you are using. Now it's time for you to experience the difference of the LG Smart Station, which allows for the efficient management of the maximum number of channels and simple overall control.

# **Specifications**

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Category	Function	Description
Live View	Max Channel	64ch Live Display
(Display)	Channel Division	1, 2 × 2, 3 × 3, 4 × 4, 6 × 6, 8 × 8, 6, 8, 10
	Full Screen	Full Screen in the Smart Client s/w
	Page	(16ch x 4), Quad Monitor support
	OSD	Text (Recording, network, camera name, frame rate, video time display)
	PTZ Control	PTZ control using mouse & GUI
	Video Network	Codec(H.264/MJPEG) RTP over RTSP(TCP)/UDP
Search	Audio	Two-way Audio(G.711, G.726)
(Playback)	Multiple camera search	Multiple camera search (Different time) at the same time
	Search	Date, Time, Event(Sensor, VCA), Log
	Play	Forward, Backword(I frame only), Next frame, Previous Frame, Stop
Mamagement	Total Management	Group add / delete / edit, Group management
-	Camera	Add/Edit/Delete Use Master account, Use Specific account, Camera Name
	Schedule	Recording schedule support
	Camera Notification	Spot(PopUp Window) on Event
	Configuration	Configuration(Remote Server Setup)
	Still image	JPEG
	Video	AVI
	VCA	Crossing line, Intrusion, Detection, Object Counting, Tampering, Object Removal (Option)
	E-Map	JPEG, BMP support



#### TP, RTSP, UDP, DHCP, FTP, SMTP,

ment Software(Max 64ch) assword HTTPS encryption

# LG Smart Station VCA

# A self-assessing management solution Video Contents Analysis

VCA is a systematic approach monitoring, that selects the appropriate security environment and provides a wide array of features that make management simple, including automatic counters and alarms. (VCA Optional)

# Crossing Line

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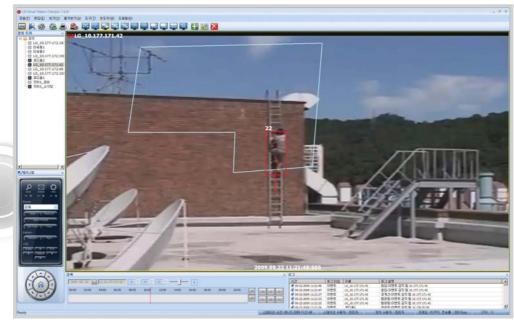


If a line is drawn on a screen and the direction is set, anything crossing that line or traveling in the opposite direction can be confirmed.

#### pplications

• Notification of any vehicles traveling against traffic on one-way roads. • Notification when museum-goers approach an artwork too closely.

# Intruder Detection





AREA Designate a particular region, and this feature will send a notification if the area has been breached.

#### Applications

• Sends a notification when any person, animal, or thing breaches a particular area of a building.



# Object Counting





After drawing a line and setting the direction, this feature will count the number of subjects that crossed the line.

#### Gco Applications

 Determining the number of available spaces in a parking lot by counting the number of cars in and out. • Counting the number of people in and out of shopping malls.

# Tampering



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Notification when a certain object has been removed from a specified area.



Applications

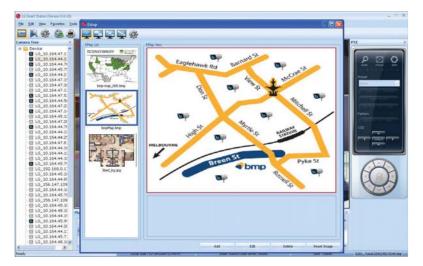
• Notification when objects are lost from storerooms. Records when a vehicle leaves a parking lot.

LG IP CAMERA 09

# LG Smart Station Emap

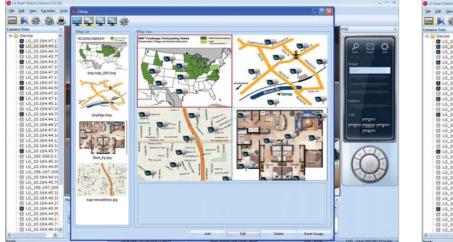
# A auto-locating security solution Emap

It displays the location of cameras and the event occurrence point and the screen when a problem arises, making concentrated management



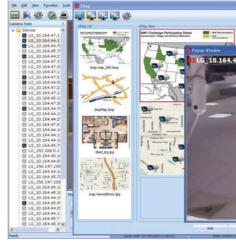
Smart Station can be used with city, zone, building etc. maps. Displays the location of IP cameras and denotes cameras in vicinity of an event.

Add Edit Debts Reset Shap



Pop-up feature of detailed image.

- R & & =



Search is available by inscription on image snapshots.

-



# Network Attached Storage NAS

Are you still relying on your old centralized video recording system? Why not consider equipping yourself with an IP for free and easy monitoring anywhere in the world?

Whether you're on a business trip, off-site duty, or traveling leisurely, you're always connected. Search 16 channels seamlessly free of any data capacity limitations with artificial intelligence using the revolutionary **de-centralized IP system**, NAS.

It will change the way you think about mobility forever.

# NAS gives your security cameras wings.

### Unlimited data storage power that transcends the OS environment

When you connect through the Internet or network, storage and sharing or materials is possible across a variety of platforms (Windows, Linux, and Mac) and media can be recorded onto a maximum 50GB Blu-ray disk.

### Easy and convenient to use

Even if you're not an IT professional, with just a connection to the Internet, anyone can easily install or maintain the system. Additionally, just connect from anywhere at any time, and you will have the freedom to edit and share information, and update data.

What is NAS? NAS is an innovative system that uses a decentralized data recording method for image information, that minimizes data capacity usage and maximizes storage power.



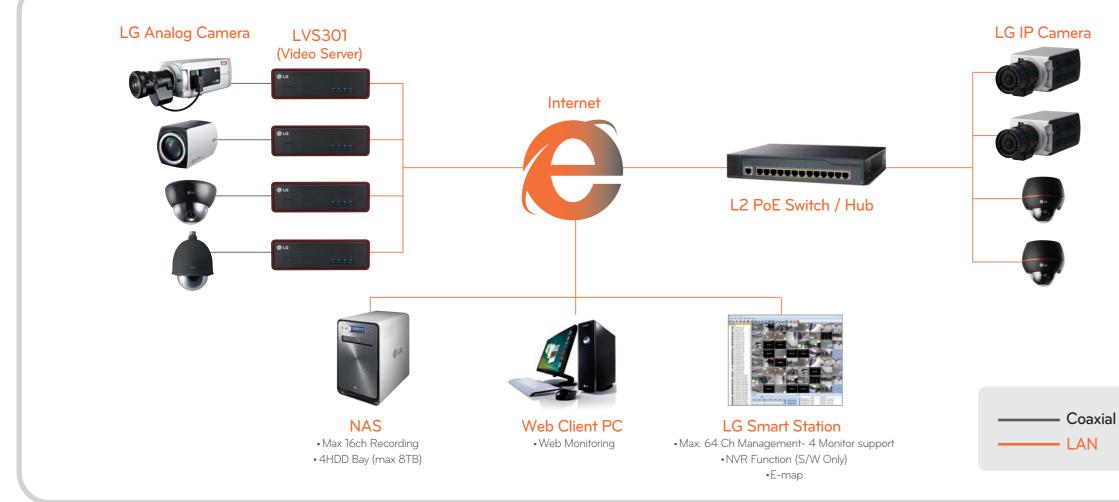


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# LG IP Camera System Map

- Unlike the existing analogue products connected to the IP system via video servers, LG IP Camera is able to be connected to a limitless number of cameras with the below structure.
- Video data of every camera is sent to NAS, and networking with Smart Station and IP Camera is optimized to ensure successful monitoring in any network environment.
- One unit of NAS supports playback and recording of up to 16 channels.

- Smart Station is capable of managing up to 64 channels, and provides the optimal monitoring environment by controlling every function of LG IP Camera including VCA and E-Map.
- In the small-scale environment with 16 or less units, LG provides 16-channel recording & 64-channel live Smart Station for free. For recording function NAS device is necessarily required. In the large-scale setting, users may enjoy limitless scaling up with the below system.



12 LG IP CAMERA

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# LG IP Camera Security Ground

At anywhere, any time, let networking set you free! In any situation, it's clean and clear! Integrated security control system faster and speedier than any other! You will feel comfortable if you are with LG Smart Network products.

Government

### Education



#### Kindergartens / Institutions / Schools



Transport

#### Government Offices

public facilities control.

### Airports / Stations / Terminals

What children are up to in the classes and other In the locations that require tight admittance When installed in areas with high concen- The current condition of products in and out in learning activities are transmitted to their control, such as the National Assembly, gove- tration of floating population, it is possible to parking lots or logistic storages on the premise parents in real time, so parents can check their rnment offices, and public agencies, it helps to grasp the situation in real-time and control the is transmitted to the person in charge. The children only through connecting to the Internet. prevent information leaks and ensures safe situation safely in case of unexpected occu- remote control of parking areas is possible, rrences.

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### Shopping Mall

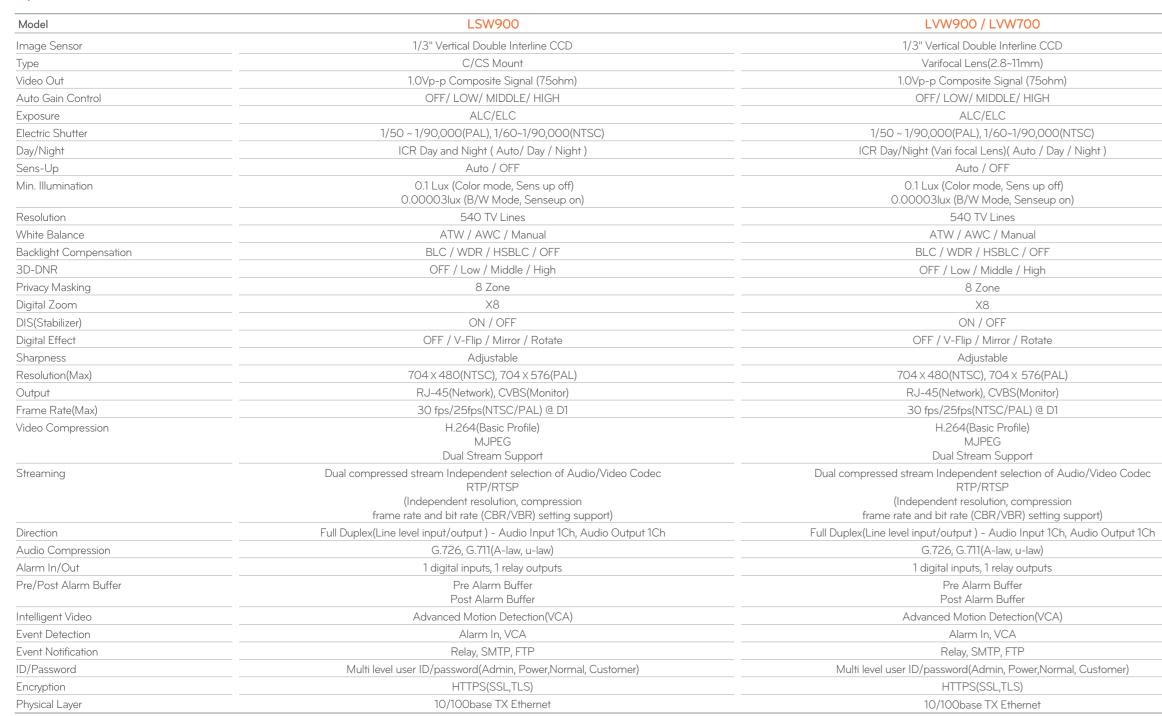


#### Large-scale shopping malls, parking lots

preventing extra work for the overseer.



# **Specifications**



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Model	LSW900	LVW900 / LVW700	
Protocol	TCP/IP, HTTP, HTTPS, RTP,RTSP,UDP,DHCP,FTP,SMTP,NTP,ARP,ICMP, DDNS(LG)	TCP/IP, HTTP, HTTPS, RTP,RTSP,UDP,DHCP,FTP,SMTP,NTP,ARP,ICMP, DDNS(LG)	
IP support	Dynamic, Static, Private IP	Dynamic, Static, Private IP	
Simultaneous Connection	Unicast 10 Streams / 50 user registration	Unicast 10 Streams / 50 user registration	
Operating Condition	-10°C ~ 50°C	-30°C ~ 50°C(Heater)(LVW900)	-10°C ~ 50°C(LVW700)
Power	AC24V, DC12V, PoE	AC24V, DC12V, PoE	
Dimensions	69(W) × 54(H) × 128.5(D)	156(Diameter) × 155(H)(LVW900)	156(Diameter) X 155.8(H) <mark>(LVW700)</mark>
Other	RS-485 Support	Vandal Proof, IP66, 3-Axis <mark>(LVW900)</mark>	3-Axis(LVW700)



	LVS301	
704 x 480(NTSC), 704 x 576(PAL)	Intelligent Video	
1Ch Video Input(CVBS)	Event Detection	
RJ-45(Network), CVBS(Monitor)	Event Notification	
30 fps/25fps(NTSC/PAL) @ D1	ID/Password	
Dual Stream Support(H.264 MJPEG)	Encryption	
Dual compressed stream Independent selection of Audio/Video Codec RTP/RTSP	Physical Layer Protocol	
	IP support	
Full Duplex(Line level input/output ) - Audio Input 1Ch, Audio Output 1Ch	Simultaneous Connection Operating Condition	
G.726, G.711(A-law, u-law)	Power	
1 digital input, 1 relay output	Dimensions	
Pre Alarm Buffer Post Alarm Buffer	Other	
	1Ch Video Input(CVBS) RJ-45(Network), CVBS(Monitor) 30 fps/25fps(NTSC/PAL) @ D1 Dual Stream Support(H.264 MJPEG) Dual compressed stream Independent selection of Audio/Video Codec RTP/RTSP (Independent resolution, compression frame rate and bit rate (CBR/VBR) setting support) Full Duplex(Line level input/output ) - Audio Input 1Ch, Audio Output 1Ch G.726, G.711(A-law, u-law) 1 digital input, 1 relay output Pre Alarm Buffer	

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Advanced Motion Detection(VCA)
Alarm In, VCA
Relay, SMTP, FTP
Multi level user ID/password(Admin, Power,Normal, Customer)
HTTPS(SSL,TLS)
10/100base TX Ethernet
TCP/IP(IPv4), HTTP, HTTPS,
RTP,RTSP,UDP,DHCP,FTP,SMTP,NTP,ARP,ICMPDDNS(LG)
Dynamic, Static, Private IP
Unicast 10 Streams / 50 user registration
-10 °C ~ 50 °C
AC24V, DC12V, PoE
170.4(W) × 56.2(H) × 130.2(D)
RS-422& RS-485 Support

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