

# LTC 9305 Series



Security Systems

EN | Instruction Manual  
Wall/Ceiling Security  
Housings

**BOSCH**

## Important Safeguards

1. **Read, Follow, and Retain Instructions** - All safety and operating instructions should be read and followed before operating the unit. Retain instructions for future reference.
2. **Heed Warnings** - Adhere to all warnings on the unit and in the operating instructions.
3. **Attachments** - Attachments not recommended by the product manufacturer should not be used, as they may cause hazards.
4. **Installation Cautions** - Do not place this unit on an unstable stand, tripod, bracket, or mount. The unit may fall, causing serious injury to a person and serious damage to the unit. Use only manufacturer-recommended accessories, or those sold with the product. Mount the unit per the manufacturer's instructions. Appliance and cart combination should be moved with care. Quick stops, excessive force, or uneven surfaces may cause the appliance and cart combination to overturn.
5. **Cleaning** - Unplug the unit from the outlet before cleaning. Follow any instructions provided with the unit. Generally, using a damp cloth for cleaning is sufficient. Do not use liquid cleaners or aerosol cleaners.
6. **Servicing** - Do not attempt to service this unit yourself. Opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
7. **Damage Requiring Service** - Unplug the unit from the main AC power source and refer servicing to qualified service personnel under the following conditions:
  - When the power supply cord or plug is damaged.
  - If liquid has been spilled or an object has fallen into the unit.
  - If the unit has been exposed to water and/or inclement weather (rain, snow, etc.).
  - If the unit does not operate normally, when following the operating instructions. Adjust only those controls specified in the operating instructions. Improper adjustment of other controls may result in damage, and require extensive work by a qualified technician to restore the unit to normal operation.
  - If the unit has been dropped or the cabinet damaged.
  - If the unit exhibits a distinct change in performance, this indicates that service is needed.
8. **Replacement Parts** - When replacement parts are required, the service technician should use replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electrical shock or other hazards.
9. **Safety Check** - Upon completion of servicing or repairs to the unit, ask the service technician to perform safety checks to ensure proper operating condition.
10. **Power Sources** - Operate the unit only from the type of power source indicated on the label. If unsure of the type of power supply to use, contact your dealer or local power company.
  - For units intended to operate from battery power, refer to the operating instructions.
  - For units intended to operate **with External Power Supplies**, use only the recommended approved power supplies.
  - For units intended to operate with a limited power source, this power source must comply with EN60950. Substitutions may damage the unit or cause fire or shock.
  - For units intended to operate at 24VAC, normal input voltage is **24VAC**. Voltage applied to the unit's power input should not exceed 30VAC. User-supplied wiring, from the 24VAC supply to unit, must be in compliance with electrical codes (Class 2 power levels). Do not ground the 24VAC supply at the terminals or at the unit's power supply terminals.
11. **Coax Grounding** - If an outside cable system is connected to the unit, ensure that the cable system is grounded. U.S.A. models only - Section 810 of the National Electrical Code, ANSI/NFPA No.70, provides information regarding proper grounding of the mount and supporting structure, grounding of the coax to a discharge unit, size of grounding conductors, location of discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
12. **Grounding or Polarization** - This unit may be equipped with a polarized alternating current line plug (a plug with one blade wider than the other). This safety feature allows the plug to fit into the power outlet in only one way. If unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact an electrician to arrange replacement of the obsolete outlet. Do not defeat the safety purpose of the polarized plug. Alternately, this unit may be equipped with a 3-wire grounding plug (a plug with a third pin, for grounding). This safety feature allows the plug to fit into a grounding power outlet only. If unable to insert the plug into the outlet, contact an electrician to arrange replacement of the obsolete outlet. Do not defeat the safety purpose of the grounding plug.
13. **Lightning** - For added protection during a lightning storm, or when this unit is left unattended and unused for long periods of time, unplug the unit from the wall outlet and disconnect the cable system. This will prevent damage to the unit due to lightning and power line surges.

### For Indoor Product

1. **Water and Moisture** - Do not use this unit near water - for example, in a wet basement, in an unprotected outdoor installation or in any area classified as a wet location.
2. **Object and Liquid Entry** - Never push objects of any kind into this unit through openings, as they may touch dangerous voltage points or short out parts that could result in a fire or electrical shock. Never spill liquid of any kind on the unit.
3. **Power Cord and Power Cord Protection** - For units intended to operate with 230VAC, 50Hz, the input and output power cord must comply with the latest versions of IEC Publication 227 or IEC Publication 245.  
Power supply cords should be routed so they are not likely to be walked on or pinched. Pay particular attention to location of cords and plugs, convenience receptacles, and the point of exit from the appliance.
4. **Overloading** - Do not overload outlets and extension cords; this can result in a risk of fire or electrical shock.



### For Outdoor Product


**Power Lines** - An outdoor system should not be located in the vicinity of overhead power lines, electric lights or power circuits, or where it may contact such power lines or circuits. When installing an outdoor system, extreme care should be taken to keep from touching power lines or circuits, as this contact might be fatal. U.S.A. models only - refer to the National Electrical Code Article 820 regarding installation of CATV systems.


### For Rack-mount Product


1. **Ventilation** - This unit should not be placed in a built-in installation or rack, unless proper ventilation is provided, or the manufacturer's instructions have been adhered to. The equipment must not exceed its maximum operating temperature requirements.
2. **Mechanical Loading** - Mounting of the equipment in a rack shall be such that a hazardous condition is not achieved due to uneven mechanical loading.


## Safety Precautions

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK. DO NOT OPEN!	
<b>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</b>		

	This symbol indicates the presence of uninsulated "dangerous voltage" within the product's enclosure. This may constitute a risk of electric shock.
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	The user should consult the operating and maintenance (servicing) instructions in the literature accompanying the appliance.
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	Attention: Installation should be performed by qualified service personnel only in accordance with the National Electrical Code or applicable local codes.
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	Power Disconnect. Units with or without ON-OFF switches have power supplied to the unit whenever the power cord is inserted into the power source; however, the unit is operational only when the ON-OFF switch is in the ON position. The power cord is the main power disconnect for all units.
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## Sécurité


	<b>ATTENTION</b> RISQUE D'ÉLECTROCUTION. NE PAS OUVRIR !	
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**ATTENTION : POUR ÉVITER TOUT RISQUE D'ÉLECTROCUTION, N'ESSAYEZ PAS DE RETIRER LE CAPOT (OU LE PANNEAU ARRIÈRE). CET APPAREIL NE CONTIENT AUCUN COMPOSANT SUSCEPTIBLE D'ÊTRE RÉPARÉ PAR L'UTILISATEUR. CONFIEZ LA RÉPARATION DE L'APPAREIL À DU PERSONNEL QUALIFIÉ.**

	Ce symbole signale que le produit renferme une « tension potentiellement dangereuse » non isolée susceptible de provoquer une électrocution.
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	Ce symbole invite l'utilisateur à consulter les instructions d'utilisation et d'entretien (dépannage) reprises dans la documentation qui accompagne l'appareil.
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	Attention : l'installation doit exclusivement être réalisée par du personnel qualifié, conformément au code national d'électricité américain (NEC) ou au code d'électricité local en vigueur.
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	Coupage de l'alimentation. Qu'ils soient pourvus ou non d'un commutateur ON/OFF, tous les appareils reçoivent de l'énergie une fois le cordon branché sur la source d'alimentation. Toutefois, l'appareil ne fonctionne réellement que lorsque le commutateur est réglé sur ON. Le débranchement du cordon d'alimentation permet de couper l'alimentation des appareils.
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## Sicherheitshinweise


	<b>VORSICHT</b> ELEKTRISCHE SPANNUNG. NICHT ÖFFNEN!	
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**VORSICHT: UM EINEN ELEKTRISCHEN SCHLAG ZU VERMEIDEN, IST DIE ABDECKUNG (ODER RÜCKSEITE) NICHT ZU ENTFERNEN. ES BEFINDEN SICH KEINE TEILE IN DIESEM BEREICH, DIE VOM BENUTZER GEWARTET WERDEN KÖNNEN. LASSEN SIE WARTUNGSARBEITEN NUR VON QUALIFIZIERTEM WARTUNGSPERSONAL AUSFÜHREN.**

	Das Symbol macht auf nicht isolierte „gefährliche Spannung“ im Gehäuse aufmerksam. Dies kann zu einem elektrischen Schlag führen.
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	Der Benutzer sollte sich ausführlich über Anweisungen für die Bedienung und Instandhaltung (Wartung) in den begleitenden Unterlagen informieren.
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	Achtung! Die Installation sollte nur von qualifiziertem Kundendienstpersonal gemäß jeweils zutreffender Elektrovorschriften ausgeführt werden.
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	Unterbrechung des Netzanschlusses. Geräte mit oder ohne Netzschalter haben Spannung am Gerät anliegen, sobald der Netzstecker in die Steckdose gesteckt wird. Das Gerät ist jedoch nur betriebsbereit, wenn der Netzschalter (EIN/AUS) auf EIN steht. Wenn das Netzkabel aus der Steckdose gezogen wird, ist die Spannungszuführung zum Gerät vollkommen unterbrochen.
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## Precauciones de Seguridad


	<b>ATTENZIONE</b> PERICOLO DI SCOSSA ELETTRICA. NON APRIRE.	
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**PRECAUCIÓN: PARA DISMINUIR EL RIESGO DE DESCARGA ELÉCTRICA, NO RETIRE LA CUBIERTA (NI LA PARTE POSTERIOR). NO EXISTEN PIEZAS DE RECAMBIO EN EL INTERIOR DEL EQUIPO. EL PERSONAL DE SERVICIO CUALIFICADO SE ENCARGA DE REALIZAR LAS REPARACIONES.**

	Este símbolo indica que existen puntos de tensión peligrosos sin aislamiento dentro de la cubierta de la unidad. Estos puntos pueden constituir un riesgo de descarga eléctrica.
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	El usuario debe consultar las instrucciones de funcionamiento y mantenimiento (reparación) en la documentación que se suministra con el aparato.
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	Atención: la instalación la debe realizar únicamente personal cualificado de conformidad con el National Electric Code o las normas aplicables en su país.
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	Desconexión de la alimentación. Las unidades con o sin interruptores de encendido/apagado reciben alimentación eléctrica siempre que el cable de alimentación esté conectado a la fuente de alimentación. Sin embargo, la unidad sólo funciona cuando el interruptor está en la posición de encendido. El cable de alimentación es la principal fuente de desconexión de todas las unidades.
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## Veiligheidsmaatregelen


	<b>VOORZICHTIG</b> GEVAAR VOOR ELEKTRISCHE SCHOK. NIET OPENEN!	
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**VOORZICHTIG: OPEN DE BEHUIZING OF DE ACHTERKANT VAN HET APPARAAT NIET. ZO VERMINDERT U HET RISICO OP ELEKTRISCHE SCHOKKEN. IN HET APPARAAT BEVINDEN ZICH GEEN ONDERDELEN DIE U ZELF KUNT REPAREREN. LAAT SERVICE EN ONDERHOUD UITVOEREN DOOR GEKWALIFICEERD PERSONEEL.**



	Dit symbool geeft aan dat er binnen in het apparaat ongeïsoleerde, gevaarlijke spanning aanwezig is die mogelijk elektrische schokken kan veroorzaken.
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	De gebruiker dient de bedienings- en onderhoudsvorschriften te raadplegen in de documentatie die werd meegeleverd met het apparaat.
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	Attentie: het apparaat mag alleen door gekwalificeerd personeel worden geïnstalleerd. De installatie dient in overeenstemming met de nationale elektrische richtlijnen of de van toepassing zijnde lokale richtlijnen te worden uitgevoerd.
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	Spanning uitschakelen. Apparatuur met of zonder aan-uitschakelaar staat onder spanning zolang de stekker is aangesloten op de wandcontactdoos. De apparatuur is uitsluitend in werking als de aan-uitschakelaar aan staat. Het netsnoer is de "hoofdschakelaar" voor alle apparatuur.
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## Sicurezza

	<b>ATTENZIONE</b> PERICOLO DI SCOSSA ELETTRICA. NON ABRIRE.	
<p><b>ATTENZIONE: PER RIDURRE IL RISCHIO DI SCOSSE ELETTRICHE NON RIMUOVERE LA COPERTURA (O IL PANNELLO POSTERIORE). L'UNITÀ NON CONTIENE COMPONENTI INTERNI RIPARABILI DALL'UTENTE. PER QUALSIASI INTERVENTO, RIVOLGERSI A PERSONALE TECNICO QUALIFICATO.</b></p>		



 Questo simbolo indica la presenza di "tensione pericolosa" non isolata all'interno del contenitore del prodotto. Ciò comporta un potenziale rischio di scosse elettriche.


 Si consiglia di consultare le istruzioni operative e di manutenzione (interventi tecnici) contenute nella documentazione fornita con il dispositivo.


 Attenzione: l'installazione deve essere effettuata esclusivamente da personale tecnico qualificato in conformità con il National Electrical Code o con le normative locali vigenti.


 Scollegamento dell'alimentazione. Le unità dotate o sprovviste di interruttori ON-OFF vengono alimentate quando si inserisce il cavo nella presa dell'alimentazione. L'unità è tuttavia in funzione solo quando l'interruttore ON-OFF si trova nella posizione ON. Il cavo di alimentazione costituisce il dispositivo di scollegamento dell'alimentazione principale per tutte le unità.


## Medidas de Segurança

	<b>CUIDADO</b> RISCO DE CHOQUE ELÉCTRICO. NÃO ABRIR!	
<p><b>CUIDADO: PARA REDUZIR O RISCO DE CHOQUE ELÉCTRICO, NÃO RETIRE A TAMPA (OU A PARTE POSTERIOR). NO INTERIOR, NÃO EXISTEM PEÇAS QUE POSSAM SER REPARADAS PELO UTILIZADOR. REMETA A ASSISTÊNCIA PARA OS TÉCNICOS QUALIFICADOS.</b></p>		



 Este símbolo indica a presença de "tensão perigosa" não isolada dentro da estrutura do produto, o que pode constituir risco de choque eléctrico.


 O utilizador deve consultar as instruções de funcionamento e manutenção (assistência) nos documentos que acompanham o aparelho.


 Atenção: a instalação deve ser executada apenas por técnicos qualificados da assistência, de acordo com o código eléctrico nacional ou os códigos locais aplicáveis.


 Corte de corrente. As unidades com ou sem interruptores ON-OFF (ligar/desligar) recebem corrente sempre que o fio de alimentação está introduzido na fonte de alimentação; contudo, a unidade apenas está operacional quando o interruptor ON-OFF está na posição ON. O fio de alimentação destina-se a desligar a corrente em todas as unidades.


## Zasady Bezpieczeństwa

	<b>UWAGA</b> NIEBEZPIECZEŃSTWO PORAŻENIA PRĄDEM ELEKTRYCZNYM. NIE OTWIERAĆ!	
<p><b>PRZESTROGA: ABY ZMNIJSZYĆ RYZYKO PORAŻENIA ELEKTRYCZNEGO, NIE NALEŻY ZDEJMOWAĆ POKRYWY GÓRNEJ (ani tylnej). WEWNĄTRZ URZĄDZENIA NIE MA ŻADNYCH ELEMENTÓW, KTÓRE MOGĄ BYĆ NAPRAWIANE SAMODZIELNIE PRZEZ UŻYTKOWNIKA. SERWIS NALEŻY ZLECAĆ WYKWALIFIKOWANYM PRACOWNIKOM OBSŁUGI.</b></p>		

 Ten symbol wskazuje na obecność nieizolowanego „niebezpiecznego napięcia” we wnętrzu urządzenia. Napięcie to grozi porażeniem elektrycznym.

 Użytkownik powinien zapoznać się z instrukcjami obsługi i konserwacji (serwisu), zamieszczonymi w dokumentacji towarzyszącej urządzeniu.

 Uwaga: Instalacja może być wykonywana wyłącznie przez wykwalifikowanych pracowników obsługi, zgodnie z zasadami kodeksu National Electrical Code lub innych obowiązujących norm.

 Odłączanie zasilania. Niezależnie od wyposażenia w wyłącznik zasilania, prąd do urządzenia jest doprowadzany zawsze, gdy przewód zasilania jest podłączony do źródła zasilania; jednak urządzenie działa tylko wtedy, gdy wyłącznik zasilania jest włączony. Przewód zasilania jest głównym wyłącznikiem zasilania we wszystkich urządzeniach.

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## I UNPACKING

Unpack carefully. This is electromechanical equipment and should be handled with care.

Check for the following:

- Housing (with correct model number).
- Installation Instructions (this manual).

If the unit ever needs repair service, contact the nearest Bosch Security Systems Inc. Service Center for authorization to return and shipping instructions

The shipping carton is the safest container in which the unit may be transported. Save it for possible future use.

## 2 SERVICE

Service Centers  
USA

Phone: 800-366-2283 or 717-735-6638  
Fax: 800-366-1329 or 717-735-6639

CCTV Spare Parts

Phone: 800-894-5215 or 408-956-3853 or 3854  
Fax: 408-957-3198  
E-mail: BoschCCTVparts@ca.slr.com

Canada

Phone: 514-738-2434

Europe, Middle East & Asia Pacific Region

Phone: 32-1-440-0711

For additional information, see [www.boschsecuritysystems.com](http://www.boschsecuritysystems.com).

## 3 CARE AND MAINTENANCE

There are no moving parts in this unit. Regularly scheduled maintenance will help prolong the operation life of this unit. Clean the viewing window as needed with a mild, nonabrasive detergent in water and a soft cloth.

## 4 DESCRIPTION/MODELS

The lightweight cast aluminum design of the LTC 9305 Series housings provides the strength of 12 gage steel with the superior strength-to-weight ratio of aluminum. The removable cover provides access to the camera and is secured using a tamper-resistant screw. A special tool is provided for screw removal.

These housings are designed to be mounted on the ceiling, on the wall horizontally, or on the wall vertically.

The LTC 9305 Series housings accept 1/8-inch and 1/2-inch format CCD cameras with fixed format lenses and up to 6x zoom lenses.

### 4.1 Models

Model No.	Feature
LTC 9305/00	Clear 9.5 mm (0.37 in) viewing window
LTC 9305/01	Key lock
LTC 9305/02	Tinted 9.5 mm (0.37 in) viewing window
LTC 9305/03	Clear 12.7 mm (0.5 in) viewing window
LTC 9305/04	Key lock and tinted 9.5 mm (0.37 in) viewing window
LTC 9305/05	Key lock and clear 12.7 mm (0.5 in) viewing window

## 5 INSTALLATION

This installation should be made by qualified service personnel and conform to the National Electrical Code and applicable local codes.

### 5.1 Disassembly

1. Remove the hardware kit from the outside of the housing. The hardware kit should contain the following items:
  - (1) 1/4-20 Button-head Flange Screw
  - (1) Tamper-resistant Tool (basic models only)
  - (1) Alternate Camera Bracket
  - (1) Key (locking models only)
2. **All Models:** Use the special tool provided to unscrew the front two tamper-resistant screws, or use the key provided to unscrew the lock. See **Figure 1**.

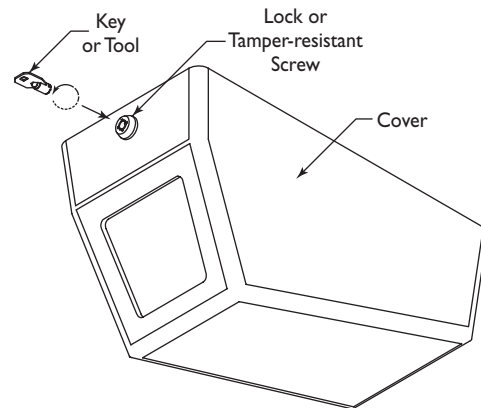


Figure 1 Unscrewing the Cover

3. Remove the cover by grasping it and pulling forward and down. See **Figure 2**.

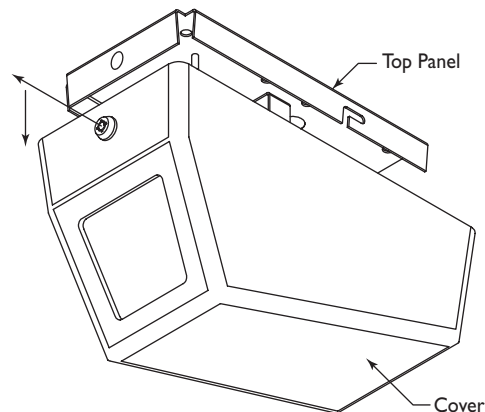


Figure 2 Removing the Cover

4. Unscrew the flange nut and remove the camera mounting system from the top panel. See **Figure 3**.

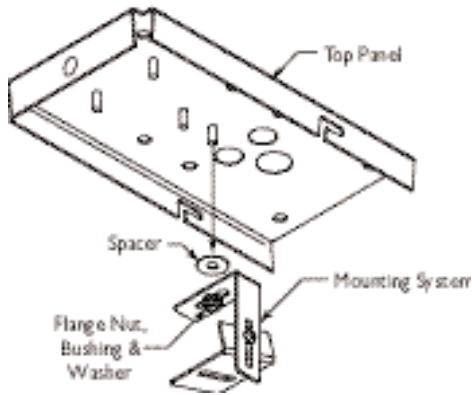


Figure 3 Removing the Mount System

**NOTE:** Do not lose these parts. They will be needed in reassembly.

## 5.2 Mounting the Unit

1. Position the top panel on the ceiling or the wall horizontally or vertically, depending on installation requirements. See **Figures 4 and 5**.

**NOTE:** A smooth, square surface is ideal for proper installation.

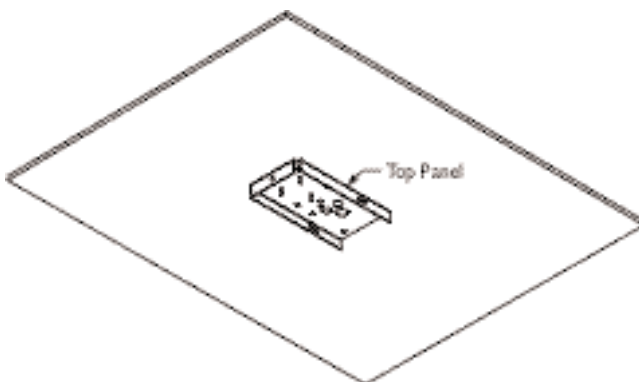


Figure 4 Positioning Top Panel on Ceiling

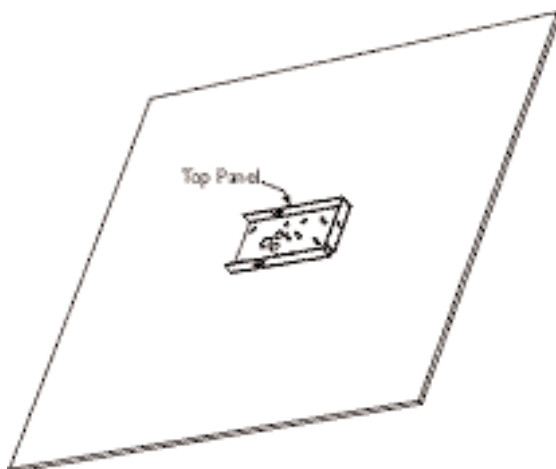


Figure 5 Positioning Top Panel on Wall

2. Mark the wall for bolt anchor holes. At least six (6) 8-mm ( $\frac{5}{16}$ -in) bolts will be needed.
3. Drill the holes.
4. Decide how wiring will be routed into the housing. If needed, remove the appropriate knockout. Two PG 13.5 ( $\frac{1}{2}$ -inch) and one PG 21 ( $\frac{3}{8}$ -inch) are provided. See **Figure 6**.

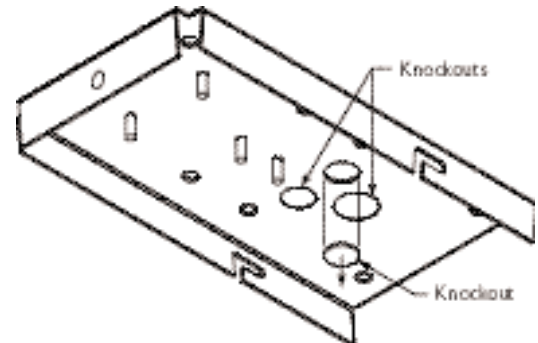


Figure 6 Knockouts

5. Mount the top panel by installing the anchor bolts. See **Figure 7**.

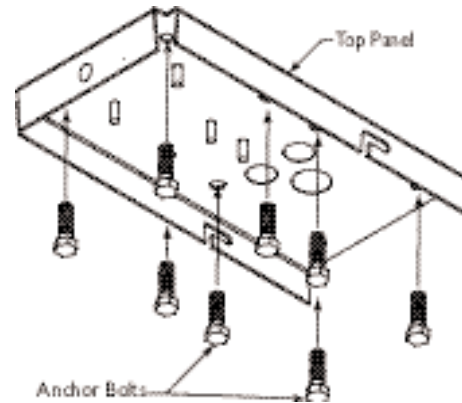


Figure 7 Mounting Top Panel

## 5.3 Camera/Lens Installation

1. If the installation requires the unit to be mounted horizontally on a wall, remove the camera bracket from the mounting system and attach the alternate camera bracket provided in the hardware kit. See **Figure 8**.

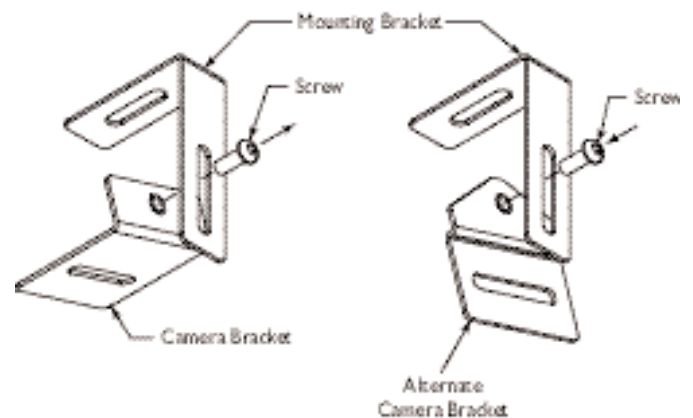


Figure 8 Alternate Camera Mount

2. Reattach the camera mounting system to the top panel using the 6-mm flange nut, nylon bushing,  $\frac{3}{16}$ -in washer, and nylon spacer. Use either stud provided, depending on the camera size and mounting configuration. See **Figures 9 and 10**.

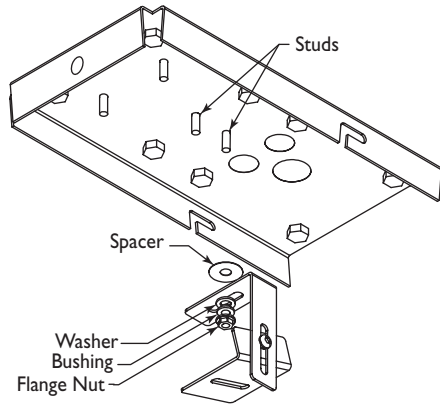


Figure 9 Securing the Mount System

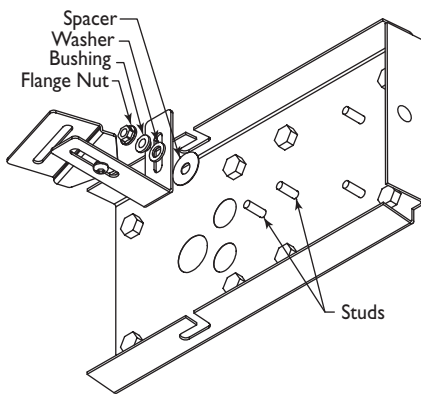


Figure 10 Securing the Mount System

3. Secure the camera to the camera mount using one  $\frac{1}{4}$ -20 x  $\frac{1}{2}$ -inch button-head flange screw. See **Figures 11, 12, and 13**.

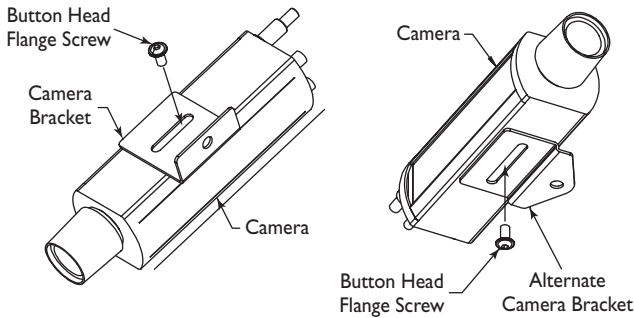


Figure 11 Camera Mounts

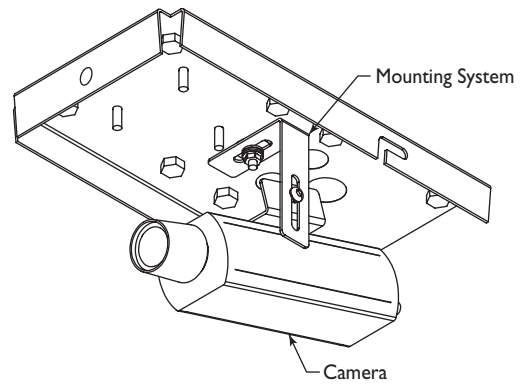


Figure 12 Camera and Mount System

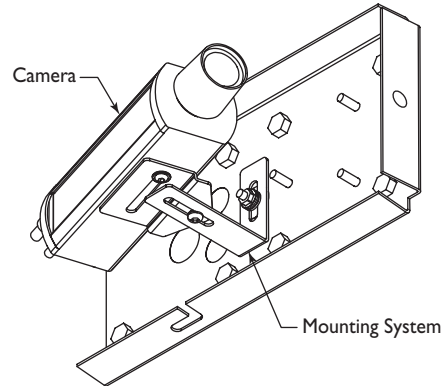


Figure 13 Camera and Mount System

#### 5.4 Final Assembly

1. Mount the cover by aligning the studs with the slots on the top panel and pushing up and back. See **Figure 14**.

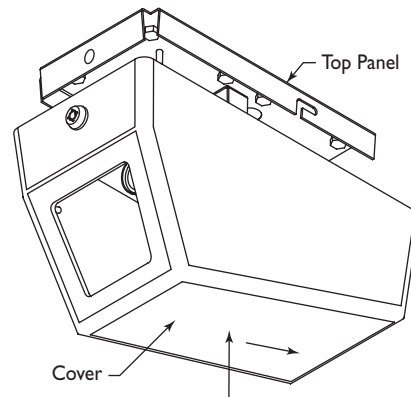


Figure 14: Replacing the Cover

2. If necessary, remove cover to make any final adjustments to the camera and camera mounting system. Replace cover. Camera/lens should be positioned as close to the viewing window as possible.



3. **All Models:** Secure the cover by screwing the tamper-resistant screw or the lock down tight to the cover. See **Figure 15**.

**NOTE:** Retain the special tool or key for future use.

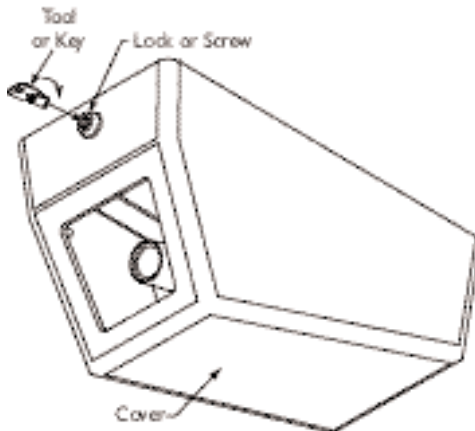


Figure 15: Securing the Cover

## 6 REPLACEMENT PARTS/ACCESSORIES

### 6.1 Replacement Parts

Part No.	Description
315 2250 004	Key Hardware Kit (locking models only)
315 2250 005	Tamper-resistant Tool (basic models only) Hardware Kit

### 6.2 Accessories

Defogger kits are recommended for use in areas where condensation could cause fogging of the viewing window.

Model	Description
LTC 9315/60	115 VAC, 50/60 Hz, 50 W thermostatically controlled defogger kit
LTC 9315/20	24 VAC, 50/60 Hz, 50 W thermostatically controlled defogger kit
LTC 9315/50	230 VAC, 50/60 Hz, 50 W thermostatically controlled defogger kit

#### **Do Not Exceed 30 VAC Input on 24 VAC models.**

Operation above 30 VAC violates low voltage operation (Class 2 Specifications). Normal operation is 24 VAC.

**Maximum Camera/Lens Size:** Housing accepts camera/lens combinations up to 300 L x 64 W x 54 H mm (11.8 x 2.5 x 2.1 in).





Bosch Security Systems, Inc.  
850 Greenfield Road  
Lancaster, PA 17601 USA  
Tel: 800-326-3270  
Fax: 1-717-735-6560  
[www.boschsecuritysystems.com](http://www.boschsecuritysystems.com)

Bosch Security Systems B.V.  
P.O. Box 80002  
5600 JB Eindhoven  
The Netherlands  
Tele +31 40 27 87113

Bosch Security Systems Pte Ltd.  
38C Jalan Pemimpin  
Singapore 577180  
Republic of Singapore  
Tel: 65 (6) 319 3486

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