AutoDome® and EnviroDome® Mounting Guide Wall, Corner, Mast (Pole), Roof (Parapet), Pipe Installation Manual

Security Systems

EN

Security you can rely on

BOSCH

Important Safeguards

1. Read Instructions - All safety and operating instructions should be read before the unit is operated.
2. Retain Instructions - Retain safety and operating instructions for future reference.
3. Heed Warnings - Adhere to all warnings on the unit and in the operating instructions.
4. Follow Instructions - Follow all operating and use instructions.
5. Attachments - Attachments not recommended by the product manufacturer should not be used, as they may cause hazards.
6. Accessories - 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 with a stand, tripod, bracket, or mount recommended by the manufacturer or sold with the product. Any mounting of the unit should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.
   An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
7. Power Sources - This unit should be operated only from the type of power source indicated on the label. If unsure of the type of power supply to use, consult your dealer or local power company. For units intended to operate from battery power or other sources, refer to the operating instructions. This equipment is to be isolated from the mains supply by a limited power source as specified in EN60950.
8. Power Lines - An outdoor system should not be located in the vicinity of overhead power lines or other electric light or power circuits or where it can fall into such power lines or circuits. When installing an outdoor system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
   U.S.A. models only - refer to the National Electrical Code Article 820 regarding installation of CATV systems.
9. Servicing - Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
10. Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
11. Safety Check - Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.
12. Coax Grounding - If an outside cable system is connected to the unit, be sure the cable system is grounded. U.S.A. models only--Section 810 of the National Electrical Code, ANSI/NFPA No.70, provides information with respect to 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.

FCC & ICES INFORMATION

(U.S.A. and Canadian Models Only)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules and ICES-003 of Industry Canada. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and radiates radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his expense.

Intentional or unintentional changes or modifications, not expressly approved by the party responsible for compliance, shall not be made. Any such changes or modifications could void the user's authority to operate the equipment. If necessary, the user should consult the dealer or an experienced radio/television technician for corrective action.

WARNING: THIS IS A CLASS A PRODUCT. IN A DOMESTIC ENVIRONMENT, THIS PRODUCT MAY CAUSE RADIO INTERFERENCE, IN WHICH CASE THE USER MAY BE REQUIRED TO TAKE ADEQUATE MEASURES.

The user may find the following booklet, prepared by the Federal Communications Commission, helpful: How to Identify and Resolve Radio-TV Interference Problems. This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

Safety Precautions

CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN!

CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT OPEN COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with an arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE UNITS NOT SPECIFICALLY DESIGNED FOR OUTDOOR USE TO RAIN OR MOISTURE.

Attention: Installation should be performed by qualified service personnel only in accordance with the National Electrical Code or applicable local codes.

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.

Cover Removal

WARNING: REMOVAL OF THE COVER SHOULD ONLY BE PERFORMED BY QUALIFIED SERVICE PERSONNEL - NOT USER SERVICEABLE. THE UNIT SHOULD ALWAYS BE UNPLUGGED BEFORE REMOVING THE COVER AND REMAIN UNPLUGGED WHILE THE IS REMOVED.

24 VAC Units:

Do not exceed 30 VAC input. Voltage applied to the unit's power input should not exceed 30 VAC. Normal input voltage is 24 VAC. User supplied wiring from 24 VAC supply to unit must be in compliance with electrical codes (Class 2 power levels). Do not ground 24 VAC supply at power supply terminals or at unit's power supply terminals.

This equipment is to be isolated from the mains supply by a limited power source as specified in EN60950.

220-240 V, 50 Hz Power Cords

220-240 V, 50 Hz power cords, input and output, must comply with the latest versions of IEC Publication 227 or IEC Publication 245.

Securite

ATTENTION

RISQUE D'ÉLECTROCUTION. NE PAS OUVRIR !

DANGER: POUR ÉVITER TOUT RISQUE D'ÉLECTROCUTION, NE PAS OUVRIR LE BOÎTIER. IL N'Y A PAS DE PIÈCES REMPLAÇABLES À L'INTÉRIEUR. POUR TOUTE RÉVISION, S'ADRESSER À UN TECHNICIEN SPÉCIALISÉ.

L'éclair fléché dans un triangle équilatéral, avertit l'utilisateur de la présence d'une "tension dangereuse" non isolée à l'intérieur de l'appareil et d'une valeur suffisante pour constituer un risque d'électrocution.

Le point d'exclamation contenu dans un triangle équilatéral, avertit l'utilisateur de la présence, dans la documentation qui accompagne l'appareil, de consignes d'utilisation et de maintenance importantes.

ATTENTION: POUR ÉVITER LE RISQUE D'ÉLECTROCUTION OU D'INCENDIE, NE PAS EXPOSER À LA PLUIE OU À L'HUMIDITÉ UN APPAREIL NON CONÇU POUR UNE UTILISATION EXTÉRIEURE.

Attention: L'installation doit être effectuée uniquement par du personnel de service qualifié conformément à la réglementation du Code Electrique National ou à la réglementation locale.

Disjonction de l'alimentation. Les appareils avec ou sans commutateurs ON-OFF sont alimentés à chaque fois que le cordon d'alimentation est branché à la source d'alimentation; toutefois, les appareils disposant de commutateurs ON-OFF ne fonctionnnent que lorsque le commutateur ON-OFF est sur la position ON. Le cordon d'alimentation est la disjonction d'alimentation principale pour tous les appareils.

Sources d'alimentation extérieures

UTILISER UNIQUEMENT LES SOURCES D'ALIMENTATION RECOMMANDÉES. LES SOURCES D'ALIMENTATION DOIVENT ÊTRE CONFORMES AUX RÉGLEMENTATIONS DE LA DERNIÈRE VERSION IEC 65/VDE 0860. TOUTE MODIFICATION PEUT ENDOMMAGER L'APPAREIL OU PROVOQUER UN INCENDIE OU UN CHOC ÉLECTRIQUE.

Appareils 24 VCA:

Ne pas excéder 30 VCA. La tension appliquée à l'entrée d'alimentation de l'appareil ne devrait pas excéder 30 VCA. Toute installation électrique fournissant du 24 Volts courant alternatif doit être conforme aux codes électriques. (Niveaux d'alimentation de la Classe 2). Ne pas brancher une prise de terre sur les bornes d'alimentation 24 Volts ou aux bornes d'alimentation de l'appareil.

Ce produit doit être isolé de l'alimentation secteur par une source à puissance limitée, conformément à la norme EN60950.

Les cordons secteur 220-240 V, 50 Hz

Les cordons secteur 220-240 V, 50 Hz, entrée et sortie, doivent êtro conformes aux versions les plus récentes de la publication 227 de la C.I.E. ou à la publication 245 de la C.I.E.

Sicherheitsvorkehrungen

VORSICHT

ELEKTRISCHE SPANNUNG.
NICHT ÖFFNEN!

VORSICHT: UM EINEN ELEKTRISCHEN SCHLAG ZU VERMEIDEN, ABDECKUNG NICHT ENTFERNEN. WARTUNGEN ALLER ART QUALIFIZIERTEM PERSONAL ÜBERLASSEN.

Das Blitzsymbol im gleichseitigen Dreieck soll den Benutzer auf nicht isolierte "Hochspannung" im Gehäuse aufmerksam machen, die eventuell stark genug ist, um einen elektrischen Schlag zu verursachen.

Das Ausrufezeichen im gleichseitigen Dreieck soll den Benutzer auf wichtige Bedienungs- und Wartungsanleitungen in der dem Gerät beigefügten Literatur aufmerksam machen.

WARNUNG: UM FEUER ODER ELEKTRISCHE SCHLÄGE ZU VERMEIDEN, SETZEN SIE DAS GERÄT NIEMALS REGEN ODER FEUCHTIGKEIT AUS.

Achtung! Die Installation sollte nur von qualifiziertem Kundendienstpersonal gemäß jeweilig zutreffender Elektrovorschriften ausgeführt werden.

Netzanschluß. 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 man das Netzkabel aus der Steckdose zieht, dann ist die Spannungszuführung zum Gerät vollkommen unterbrochen.

Externe Netzgeräte

NUR VOM HERSTELLER EMPFOHLENE NETZGERÄTE VERWENDEN! DIE NETZGERÄTE MÜSSEN DER JEWEILS GÜLTIGEN VERSION DER IEC 65/VDE 0860 BESTIMMUNGEN ENTSPRECHEN. ANDERE ERSATZNETZGERÄTE KÖNNEN DAS VORLIEGENDE GERÄT BESCHÄDIGEN UND FEUER ODER ELEKTROSCHLAG BEWIRKEN.

24 VAC Geräte:

Achtung! 30 Volt Eingangswechselspannung darf für 24 VAC Modelle nicht überschritten werden. Normal-betrieb findet bei 24 Volt Wechselspannung statt. Die Kabel- bzw. Drahtverbindung vom Netzgerät zu dem vor-liegenden Gerät muß die Bestimmungen der Schutz-klasse II erfüllen. Nicht die 24-Volt-Leitung erden weder am Netzgerät noch an den Anschlußklemmen des vorlie-genden Gerätes.

Diese Geräte sind isoliert von der Betriebsspannung mit den Netzteilen, gemäß der EN60950.

220-240 V, 50 Hz Netzkabel, Eingang und Ausgang

220-240 V, 50 Hz Netzkabel, Eingang und Ausgang, muß die neueste Version der IEC Vorschriften, Veröffentlichung 227 oder 245, erfüllen.

Precauciones de Seguridad

PRECAUCIÓN

RIESGO DE DESCARGA ELÉCTRICA
¡NO ABRIR!

PRECAUCION: PARA REDUCIR EL RIESGO DE CHOQUE ELÉCTRICO, FAVOR NO ABRIR LA CUBIERTA. ESTE EQUIPO NO CONSTA DE PIEZAS O PARTES QUE REQUIEREN SERVICIO O MANTENIMIENTO. PARA REPARACIONES FAVOR REFERIRSE A UN TÉCNICO CALIFICADO.

El símbolo representado por un relámpago con punta de flecha dentro de un triángulo equilátero, se muestra con el objetivo de alertar al usuario que existen "voltages peligrosos" sin aislamiento, dentro de la cubierta de la unidad. Dichos voltages pueden ser de tal magnitud que constituyen un riesgo de choque eléctrico a personas.

El símbolo de exclamación dentro de un triángulo equilátero, se muestra con el objetivo de alertar al ususario de que instrucciones de operación y mantenimiento importantes acompañan al equipo.

PELIGRO: PARA EVITAR EL PELIGRO DE INCENDIO Ó CHOQUE ELÉCTRICO, NO EXPONGA A LA LLUVIA Ó HUMEDAD, EQUIPOS QUE NO HAN SIDO DISEÑADOS PARA USO EXTERIOR.

Atención: La instalación de este equipo debe ser realizada por personal capacitado, solo en acuerdo, y en cumplimiento de normas del "National Electric Code" (Código Eléctrico Nacional) ó las normas del Gobierno Nacional Local.

Para Desconectar la Alimentación: Unidades no equipadas con interruptores ON/OFF, son alimentadas cuando el cable de alimentación es conectado a la corriente eléctrica. Las unidades equipadas con interruptores son alimentadas de igual forma, pero adicionalmente requieren que el interruptor esté posicionado en ON. El cable de alimentación es el medio principal de desconexión del equipo.

Fuentes de Alimentación Externas

USAR SOLO LAS FUENTES DE ALIMENTACIÓN RECOMENDADAS. LAS FUENTES DE ALIMENTACIÓN DEBEN CUMPLIR CON LOS REQUISITOS DE LA VERSIÓN MÁS RECIENTE DE LA IEC 65/VDE 0860. EL USO DE SUBSTITUTOS PUEDE DAÑAR LA UNIDAD, Ó CREAR PELIGRO DE INCENDIO O CHOQUE ELÉCTRICO.

Unidades de 24 VCA:

No exceder 30 VCA de entrada. Voltage suplido a la unidad no debe exceder 30 VCA. Voltage de entrada normal es de 24 VCA. El cableado de 24 VCA provisto por el usuario debe cumplir con las normas eléctricas (Clase 2 de niveles de alimentación). No conectar los 24 VCA a tierra en las terminales de la alimentación ó a las terminales de la fuente de alimentación de la unidad.

Este equipo debe estar aislado de la red eléctrica mediante una fuente de alimentación limitada, según se especifica mediante la normativa EN60950.

220-240 V, los cables eléctricos de 50 Hz: 220-240 V, los cables eléctricos de 50 Hz, de entrada y de salida, deben cumplir con las versiones mas recientes de la publicación IEC 227 ó la Publicación IEC 245.

Veiligheidsmaatregelen

VOORZICHTIG

GEVAAR VOOR ELEKTRISCHE SCHOK. NIET OPENEN!

VOORZICHTIG: MAAK HET APPARAAT NIET OPEN OM DE KANS OP ELEKTRISCHE SCHOKKEN TE VERMIJDEN. BEVAT GEEN ONDERDELEN DIE DOOR DE GEBRUIKER MOETEN WORDEN ONDERHOUDEN. LAAT ONDERHOUD EN REPARATIES UITVOEREN DOOR BEVOEGDE TECHNICI.

Het symbool 'Bliksemflits met pijlkop' in een gelijkzijdige driehoek wijst de gebruiker op de aanwezigheid in de kast van het apparaat van niet-geïsoleerde spanningen die voldoende sterk zijn om het gevaar van elektrische schokken op te leveren.

Het uitroepteken in een gelijkzijdige driehoek maakt de gebruiker attent op de aanwezigheid in de bij het apparaat behorende documentatie van belangrijke aanwijzingen voor bediening en onderhoud.

WAARSCHUWING: TER VOORKOMING VAN BRANDGEVAAR EN ELEKTRISCHE SCHOKKEN MAG DIT ARMATUUR NIET AAN REGEN EN VOCHT WORDEN BLOOTGESTELD.

Let op: Het apparaat mag uitsluitend door bevoegde technici geïnstalleerd worden en wel in overeenstemming met de National Electrical Code of de daarvoor plaatselijk geldende richtlijnen.

Afsluiten voeding. Apparaten met of zonder ON-OFF-schakelaar krijgen voeding zodra het netsnoer in de wandcontactdoos wordt gestoken; het apparaat is echter alleen operationeel als de ON-OFF-schakelaar op ON staat. Het netsnoer kan bij alle apparaten worden gebruikt om deze uit te schakelen.

Verwijderen van de Dekplaat

WAARSCHUWING: HET VERWIJDEREN VAN DE DEKPLAAT MAG UITSLUITEND DOOR EEN VAKKUNDIG TECHNICUS WORDEN UITGEVOERD - REPARATIE DOOR GEBRUIKER IS NIET GEOORLOOFD. DE NETVOEDING VAN HET APPARAAT MOET ALTIJD WORDEN LOSGEKOPPELD VOORDAT MEN DE DEKPLAAT VERWIJDERT EN LOSGEKOPPELD BLIJVEN ZOLANG DE DEKPLAAT VERWIJDERD IS.

Apparaten voor 24 V wisselspanning

Sluit geen hogere spanning aan dan 30 V wisselspanning. De spanning die op de voedingsingang van het apparaat wordt aangesloten, mag nooit hoger zijn dan 30 V wisselspanning. De normale ingangsspanning is 24 V wisselspanning. De door de gebruiker toegepaste verbindingskabel tussen een voedingsbron met 24 V wisselspanning en het apparaat moet voldoen aan de plaatselijk geldende voorschriften voor elektrische bedrading (Spanningsniveaus Klasse 2). De voedingsbron voor 24 V wisselspanning mag niet worden geaard op het lichtnet (stopcontact) of op de lichtnetaansluiting van het apparaat.

Dit apparaat moet van de netvoeding worden geïsoleerd door een stroombegrenzer zoals gespecificeerd in EN60950.

Netvoedingskabels 220-440 V, 50 Hz

Netvoedingskabels 220-440 V, 50 Hz, voor ingang en uitgang, moeten voldoen aan de voorschriften in de meest recente uitgave van IEC publicatie 227 of IEC publicatie 245.

Sicurezza

ATTENZIONE

PERICOLO DI SCOSSA ELETTRICA. NON APRIRE.

ATTENZIONE: PER RIDURRE IL PERICOLO DI SCOSSA ELETTRICA, NON APRIRE LE COPERTURE. L'INTERNO NON CONTIENE COMPONENTI CHE L'UTENTE PUÒ RIPARARE PERSONALMENTE. RIVOLGERSI AL PERSONALE DI ASSISTENZA QUALIFICATO PER QUALSIASI INTERVENTO DI RIPARAZIONE.

Il simbolo triangolare di un fulmine con la punta a freccia intende mettere in allerta l'utente riguardo alla presenza di tensioni pericolose non isolate all'interno del guscio dell'unità, che potrebbero essere di intensità sufficiente per costituire pericolo di elettrocuzione.

Il punto esclamativo racchiuso in un triangolo equilatero intende avvisare l'utente in merito alla presenza di importanti istruzioni operative e di manutenzione nella documentazione di accompagnamento all'unità.

AVVERTENZA: PER IMPEDIRE INCENDI O SCOSSA ELETTRICA, NON ESPORRE L'UNITÀ ALLA PIOGGIA O ALL'UMIDITÀ.

Precauzione: affidare l'installazione al solo personale qualificato e nel rispetto del Codice elettrico nazionale (USA) o dei codici locali pertinenti.

Scollegamento dell'alimentazione. Gli apparecchi con o senza commutatori ON-OFF ricevono corrente tutte le volte che il cavo di alimentazione è inserito nella presa di forza; tuttavia, gli apparecchi muniti di commutatore ON-OFF funzionano solo se quest'ultimo è in posizione ON. Il cavo di alimentazione serve a scollegare dalla corrente tutti gli apparecchi.

Rimozione Della Copertura

AVVERTENZA: AFFIDARE LA RIMOZIONE DELLA COPERTURA SOLTANTO AL PERSONALE DI SERVIZIO QUALIFICATO. L'UTENTE DEVE ASTENERSI DALL'EFFETTUARE UN INTERVENTO DI RIPARAZIONE DI PERSONA. DISINSERIRE SEMPRE IL CAVO DI ALIMENTAZIONE DALL'UNITÀ PRIMA DI RIMUOVERE LA COPERTURA E NON REINSERIRLO SE LA COPERTURA NON È STATA RICHIUSA.

Unità a 24 V CA

Non superare il valore di ingresso di 30 V CA. La tensione erogata all'ingresso di alimentazione dell'unità non deve superare i 30 V CA. La tensione d'ingresso normale è di 24 V CA. Un'unità alimentata con corrente da 24 V CA deve essere conforme alle normative elettriche stabilite in materia di livelli di potenza dalla Classe 2. Non fornire la messa a terra ad un alimentatore da 24 V CA tramite i terminali di alimentazione o i terminali di erogazione della corrente elettrica all'unità.

Questo dispositivo deve essere isolato dall'alimentazione attraverso una potenza limitata specificata dalla EN60950.

Cavi di alimentazione a 220-440 V, 50 Hz

I cavi di alimentazione a 220-440 V, 50 Hz devono essere conformi (ingresso e uscita) alle versioni più recenti della pubblicazione IEC 227 o IEC 245.

Medidas de Segurança

CUIDADO

RISCO DE CHOQUE ELÉCTRICO.
NÃO ABRIR!

PRECAUCION: PARA REDUCIR EL RIESGO DE CHOQUE ELÉCTRICO, FAVOR NO ABRIR LA CUBIERTA. ESTE EQUIPO NO CONSTA DE PIEZAS O PARTES QUE REQUIEREN SERVICIO O MANTENIMIENTO. PARA REPARACIONES FAVOR REFERIRSE A UN TÉCNICO CALIFICADO.

O símbolo do raio com a cabeça de uma seta dentro de um triângulo equilátero serve para alertar o utilizar para a presença de "corrente eléctrica perigosa" não isolada no interior da caixa do produto que pode ser suficiente para dar origem a choques eléctricos.

O ponto de exclamação dentro de um triângulo equilátero serve para alertar o utilizador para a presença de instruções de funcionamento e manutenção importantes na documentação fornecida com o aparelho.

AVISO: PARA EVITAR INCÊNDIOS OU CHOQUES ELÉCTRICOS, NÃO EXPONHA À CHUVA OU HUMIDADE UNIDADES NÃO ESPECIFICAMENTE CRIADAS PARA UTILIZAÇÃO NO EXTERIOR.

Atenção: A instalação deve ser efectuada por pessoal de assistência técnica qualificado, de acordo com o National Electrical Code (Normas de Electricidade Nacionais) ou a legislação local aplicável.

Desconexão da electricidade. Unidades com ou sem interruptores ON-OFF são activadas sempre que o cabo eléctrico for ligado a uma fonte de alimentação. No entanto, a unidade fica operacional apenas quando o interruptor ON-OFF se encontrar na posição ON. Para desligar a electricidade em qualquer uma das unidades deve ser utilizado o cabo eléctrico.

Remoção da Tampa

ATENÇÃO: A TAMPA DEVE SER REMOVIDA APENAS PELO PESSOAL DA ASSISTÉNCIA TÉCNICA QUALIFICADA. ESTA UNIDADE NÃO CONTÉM PEÇAS REQUEREM MANUTENÇÃO PELO USUÁRIO. ANTES DE REMOVER A TAMPA, CERTFIQUE-SE DE QUE O EQUIPAMENTO FOL DESCONECTADO DA ALIMENTAÇÃO. ESTE DEVE PERMANECER DESCONECTADO ENQUANTO A TAMPA ESTIVER FORA DO SEU LUGAR.

Unidades de 24VAC

Não exceda 30VAC à entrada. A tensão aplicada à entrada ao equipamento não deve exceder 30VAC.
A tensão nominal à entrada é 24VAC. A cablagem de alimentação à unidade deve estar de acordo com os códigos electricos (Nível de potência Classe2) Não ligue à terra a fonte dos 24VAC nos terminais de alimentação ou nos terminais de alimentação da unidade.

Este equipamento deve ser isolado da tensão de alimentação da rede 230VAC por uma fonte de alijmentação de potencia limitada conforme especificado na EN60950.

Cabos de alimentação 220-240 V, 50HZ

Os cabos de alimentação 220-240 V, 50 HZ , entrada ou saída, devem estar de acordo com as ultimas versões do IEC Publicação 227 ou do IEC Publicação 245.

Zasady Bezpieczeństwa

UWAGA

NIEBEZPIECZEŃSTWO PORAŻENIA PRĄDEM ELEKTRYCZNYM. NIE OTWIERAĆ!

UWAGA: ZE WZGLĘDU NA NIEBEZPIECZEŃSTWO PORAŻENIA PRĄDEM NIE WOLNO OTWIERAĆ POKRYWY. W ŚRODKU NIE MA ŻADNYCH ELEMENTÓW, KTÓRE MOGĄ BYĆ NAPRAWIANE PRZEZ UŻYTKOWNIKA. NAPRAWĘ NALEŻY POWIERZYĆ AUTORYZOWANEMU PUNKTOWI SERWISOWEMU.

Błyskawica ze strzałką wewnątrz trójkąta równobocznego ma za zadanie zwrócić uwagę użytkownika na obecność nieizolowanego "niebezpiecznego napięcia" wewnątrz obudowy urządzenia, o wielkości stwarzającej niebezpieczeństwo porażenia prądem.

Wykrzyknik wewnątrz trójkąta równobocznego ma za zadanie zwrócić uwagę użytkownika na ważne czynności, związane z obsługą i konserwacją urządzenia, zamieszczone w Instrukcji obsługi.

OSTRZEŻENIE: ABY UNIKNĄĆ POŻARU LUB PORAŻENIA PRĄDEM NIE WOLNO WYSTAWIAĆ NA DZIAŁANIE DESZCZU LUB WILGOCI URZĄDZEŃ, KTÓRE NIE ZOSTAŁY SPECJALNIE ZAPROJEKTOWANE DO UŻYWANIA NA OTWARTYM POWIETRZU.

Uwaga: Instalację urządzenia powinien wykonać tylko wykwalifikowany personel, zgodnie z przepisami NEC lub odpowiednimi przepisami miejscowymi.

Odłączanie zasilania. Urządzenia zarówno nie posiadające, jak i posiadające wyłączniki ON-OFF znajdują się pod napięciem, jeżeli tylko przewód zasilający jest połączony ze źródłem zasilania. Jednakże urządzenie działa tylko wtedy, gdy wyłącznik znajduje się w położeniu ON. Przewód zasilający jest głównym odłącznikiem zasilania dla wszystkich rodzajów urządzeń.

Otwieranie Obudowy

UWAGA: OBUDOWA URZĄDZENIA MOŻE BYĆ OTWIERANA TYLKO PRZEZ WYKWALIFIKOWANY PERSONEL. PRZED OTWARCIEM OBUDOWY WYJĄĆ WTYCZKĘ Z GNIAZDA SIECIOWEGO.

Urządzenia z zasilaniem 24 VAC

Nie przekraczać napiścia wejściowego 30 VAC. Znamionowe napięcie zasilania wynosi 24 VAC. Doprowadzenie napięcia zasilania 24 VAC należy przeprowadzić zgodnie z obowiązującymi przepisami (Klasa 2 poziomów zasilania). Nie uziemiać napięcia zasilania na zaciskach zasilacza sieciowego.

Urządzenie powinno być izolowane od sieci energetycznej poprzez zastosowanie źródła zasilania określonego w normie EN60950.

Kable zasilające 220–240 V, 50Hz

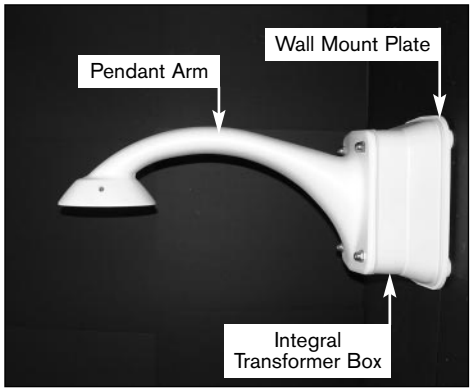
Kable zasilające 220–240 V, 50Hz, wejścia i wyjścia muszą być zgodne z ostatnią wersją publikacji nr 227 lub 245 IEC.

Table of Contents

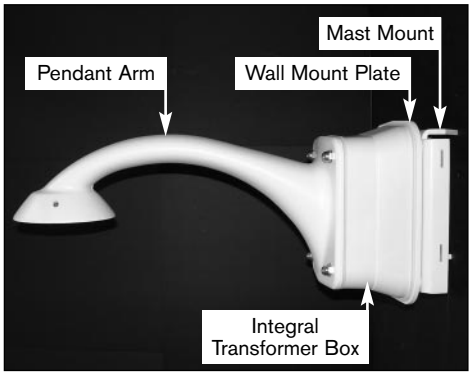
SECTION A
WALL, CORNER AND MAST MOUNTS

1 DESCRIPTION

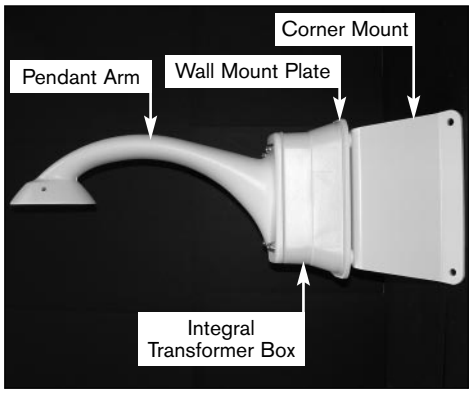
This section details mounting of the AutoDome Pendant Arm using the Wall, Corner and Mast mounts. Any differences concerning these installations are noted herein.



ENV-PA1 (120 V), ENV-PA2 (230 V) & ENV-PA0 (24 V) Wall Mount



ENV-PA1 (120 V) & ENV-PA2 (230 V) with Mast (Pole) Mount



ENV-PA1 (120 V) & ENV-PA2 (230 V) with Corner Mount

2 UNPACKING

Unpack carefully. This equipment should be handled with care to prevent damage.
Check for the following items and part numbers:

APPLICABLE PRODUCT	PART# *
Wall Mount Kit:	
Arm with box and . . . • NO Transformer	ENV-PA0
• Transformer - 120 VAC / 230 VAC	ENV-PA1 / ENV-PA2
• Transformer w/Fiber Optic Module - 120 VAC / 230 VAC	ENV-PA1F / ENV-PA2F
Bag of Parts (See below)	
Corner Mount Kit:	
Arm with box and . . . • NO Transformer	ENV-PA0
• Transformer - 120 VAC / 230 VAC	ENV-PA1 / ENV-PA2
• Transformer w/Fiber Optic Module - 120 VAC / 230 VAC	ENV-PA1 / ENV-PA2F
Corner Plate	LTC 9542/01
Bag of Parts (See below)	
Mast Mount Kit:**	
Arm with box and . . . • NO Transformer	ENV-PA0
• Transformer - 120 VAC / 230 VAC	ENV-PA1 / ENV-PA2
• Transformer w/Fiber Optic Module - 120 VAC / 230 VAC	ENV-PA1 / ENV-PA2F
Mast Kit	LTC 9541/01
Bag of Parts (See below)	

*Kits with AutoTracker end in "T".
Kits with Surge Protection end in "SP".
ENV-PAO ships with only the two (2) Rubber Hole Plugs. All other kits ship with the parts listed below.

Bag of Parts:

The following items are shipped in a separate bag:

- One (1) 3-pin power connector.
- Two (2) Rubber hole plugs.
- One (1) Green ground screw.
- One (1) Ring terminal for ground wire.
- One (1) 3-pin alarm connector (AutoTracker only).
- One (1) 6-pin signal connector (Not included with fiber units).

If any items appear to have been damaged in shipment, replace the item(s) properly in the shipping carton and notify the shipping company. If any items are missing, notify your Bosch Sales Representative or Customer Service Representative.

Service Centers
U.S.A.: Phone: 800-366-2283 or 408-956-3895
fax: 800-366-1329 or 408-956-3896
e-mail: NationalServiceCenter@ca.slr.com
Canada: 514-738-2434
Europe, Middle East & Asia Pacific Region:
32-1-440-0711
For additional information,
see www.boschsecuritysystems.com.

NOTE: The shipping carton and all packing materials should be retained, in case transporting the unit is necessary. This will ensure safe transport of all components.

3 TOOLS REQUIRED

- Standard screwdriver
- 5/16-inch wrench or socket
- 16 mm wrench or socket (if using metric fasteners)
- 3/8-inch wrench or socket
- Other tools as needed for preparing the mounting surface
- **Banding Tool, Part # TC9311PM3T (Sold separately. Must be purchased if installing Mast Mount Kit.)

4 INSTALLATION

4.1 Rough Wiring

If wiring a 24V version, refer to the chart in APPENDIX A for maximum distances from transformer to dome.

4.1.1. If wiring the pendant arm box through the bottom instead of the back, use the plugs supplied with the box unit to close the holes in the back of the mounting plate (as shown in PHOTO 4A).

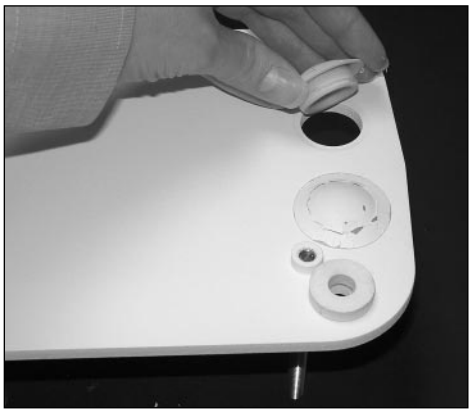


Photo 4A

4.1.2. Use only liquid-tight fittings or liquid-tight conduit fittings in the two (2) holes in the back of the back/wall mounting plate (as shown in PHOTO 4B), or bottom of the pendant arm box. When using liquid tight fittings, it is important to use the appropriate cable width for a snug fit. If a snug fit is not possible, any liquid tight 3/4-inch conduit fitting with a gasket and locking nut may be used instead.

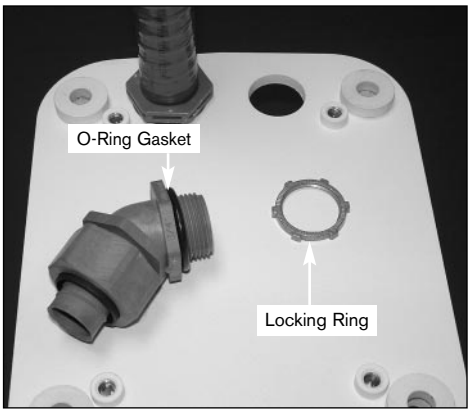


Photo 4B

4.1.3. The fittings shown in the photo are ¾-inch PVC water-tight conduit fittings with a gasket and a nut to secure it in place.

NOTE: AC Power wiring and Control/Video wiring must be kept separate, entering the pendant arm box through separate entry holes.

4.1.4. Cut and trim the cables as follows:

- If the unit has a transformer (PA1 & PA2 models), trim ALL extending cables to 15 cm (6-inches) beyond the plate.
- If the unit has no transformer (PA0 models), trim the VIDEO CABLE extending through the plate to 15 cm (6-inches), and trim the 24 VAC and data cables to 75 cm (30-inches) beyond the plate to allow slack when feeding the cable through the arm.

NOTES:

- If using the Alarms on the AutoDome, trim the wires for the Alarm connections in the same manner as above.
- Inspect the enclosure fittings after installation to ensure that the gaskets have not been damaged, replacing as necessary.

4.2 Securing the Wall Plate to the Wall (or Corner Plate to a Corner, or Mast Plate to a Mast)

4.2.1. Remove the pendant arm box from the wall mounting plate so that the plate with the four (4) carriage bolts (supplied) may be mounted by itself (as shown in PHOTO 4C).

Photo 4C

4.2.2. If the wires are to run through the back of the plate, feed them from the wall through the two (2) liquid-tight (or other) fittings in the wall plate. Observe the labels on the plate indicating that the left-hand side is for POWER and the right-hand side is for SIGNAL and VIDEO.

4.2.3. Secure the wall (or corner) plate to the wall using four (4) fasteners (not included) that can each withstand 120 kg (265 lb) pull-out force. A minimum 0.64 cm (¼-inch) stud (maximum of 10 mm [⅜-inch] stud) or equivalent is recommended.

4.2.4. If using the Corner or Mast plate, secure the wall plate to this plate using the four (4) 3/8" x 1" bolts supplied (as shown in PHOTO 4D).

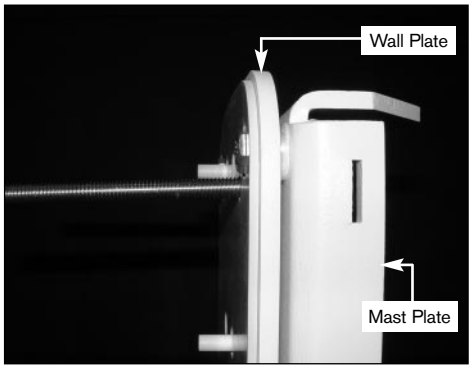


Photo 4D

NOTES:

- For mast mounting, the Banding Tool (TC9311PM3T, sold separately) is required to mount the mast plate (see PHOTO 4E). Follow the mounting instructions provided with the tool to mount the mast plate securely to a pole. Two (2) straps and two (2) band clips are included with the Mast Mount Kit.
- To prevent possible condensation buildup when connected to conduit, use some of the foam packing material to block the air from the conduit once the wires have been pulled through.

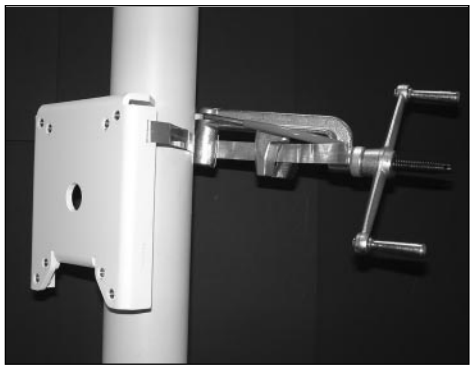


Photo 4E

4.3 Installing and Wiring the Pendant Box

4.3.1. If wiring the pendant box from the back, feed the wires from the back/wall plate through the two (2) separate compartments in the bottom of the box.

4.3.2. Slide the entire box onto the four (4) carriage bolts on the wall plate. Secure the box to the plate using two (2) phillips head screws at the corners of the transformer (as shown in PHOTO 4F).

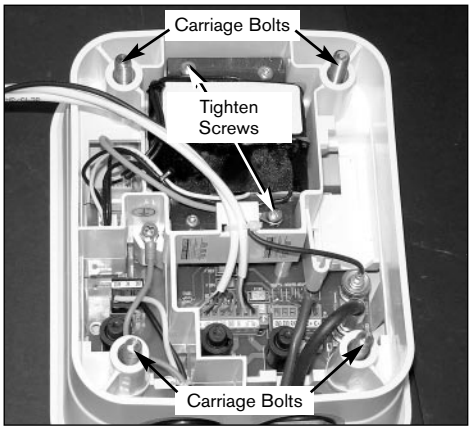


Photo 4F

4.3.3. If installing the 120/230 VAC version, follow these instructions for wiring:

a. Remove the SIGNAL and POWER connectors from the shipping bag.

b. Strip the wires and connect (as shown in PHOTO 4G) to the SIGNAL CONNECTOR.

c. Connect the earth ground to the green screw using the supplied connector (in shipping bag).

d. Connect the CONTROL and POWER connectors to the board (Typical CONTROL connection is biphase, connected to C(+), C(–), and Ground using a sheilded twisted pair, Belden 8760 or equivalent).

e. Connect the VIDEO cable to the VIDEO OUT BNC connector.

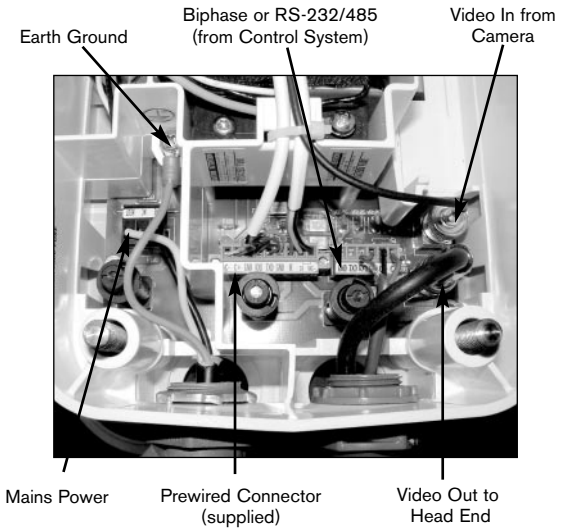


Photo 4G

4.3.4. If the AutoTracker model is being used, there is an additional connector on the PC board. This connector is for the Alarm Relay output. If it is being used, strip and connect these wires. The connector is labeled as follows (see PHOTO 4H):

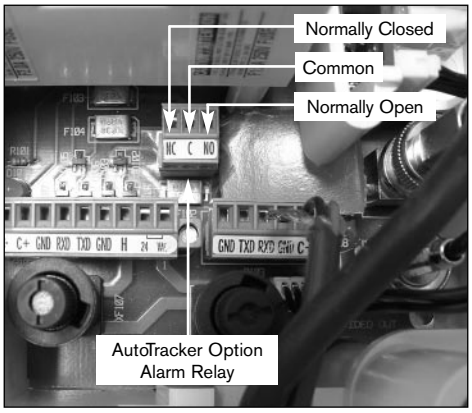


Photo 4H

NOTE: When the AutoTracker option is installed, since it uses RS-232 for control of the AutoDome camera, these connections may not be used for external control.

NOTE: If installing the fiber optic version, the BNC from the dome is pre-wired to the fiber optic module. Simply remove the fiber boot from the fiber connector, and attach the ST terminated fiber cable originating from the control system (PHOTO 4I).

Philips' LTC 4629 Fiber Receiver is required at the head end system.

- Optical Fiber Compatibility: 50/125 mm, 62.5/125 mm, low loss multimode glass fiber, rated for a minimum system bandwidth of 20 MHz (VIDEO 850 nm/CONTROL 1300 nm).
- Maximum Distance: 4 km (2.5 miles).

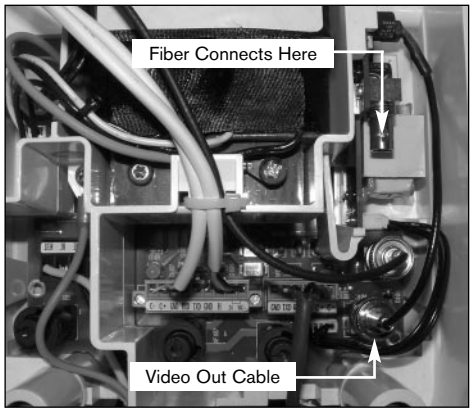


Photo 4I Interior of ENV-PA1 Series Showing Fiber Optic Cable Connector

NOTES:

- Daisy chaining of the biphase is not possible when using fiber optic accessories.
- Verify that the BNC from the fiber board is connected to the VIDEO OUT connector (as shown in PHOTO 4I).

4.3.5. For 24 VAC models, connect the VIDEO cable directly into the male BNC connector provided with the pendant arm (see PHOTO 4J).

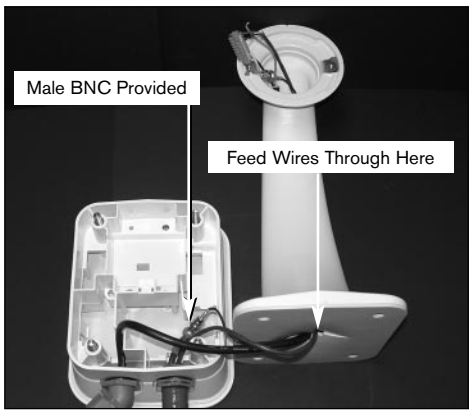


Photo 4J

4.3.6. Feed the POWER and DATA cables up through the pendant arm (as shown in PHOTO 4J).

4.3.7. Wire the 9-pin connector as shown in FIGURE 1.

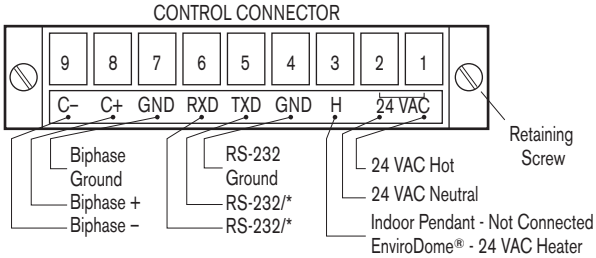


Figure 1

NOTE: If the dome's Biphase is wired in a star configuration, or is the last dome on a daisy chain, a 110 Ω terminating resistor (included) is necessary across pin 8 (C+) and pin 9 (C-).

4.4 Connecting the Pendant Arm to the Box

4.4.1. Feed the prewired connector and video cable up through the pendant arm (as shown in PHOTO 4K).

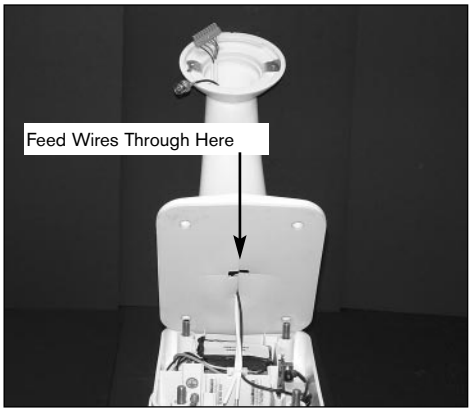


Photo 4K

4.4.2. Align the carriage bolts on the pendant box with the holes in the pendant arm, and slip the arm onto the box.

4.4.3. Secure the acorn nuts (supplied) onto each bolt and tighten.

4.5 Attaching the Dome to the Pendant Arm Mount

4.5.1. Attach the installation-assist cable to the eyehook (PHOTO 4L) on the top of the dome.

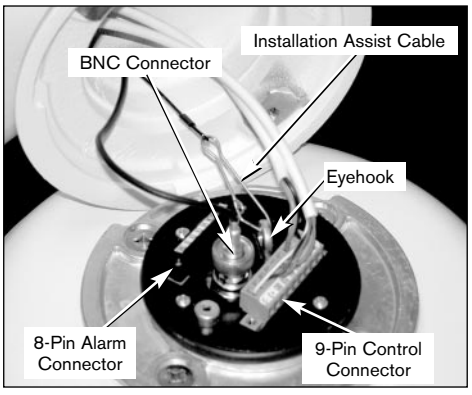


Photo 4L

4.5.2. Connect the 9-pin connector (previously wired in SECTION 4.3.3, as shown in PHOTO 4L), and tighten the retaining screws.

4.5.3. Connect the VIDEO (BNC) cable to the VIDEO (BNC) connector.

*If the internal slide switch (see FIGURE 1, at left), is set for RS-485 operation, then RXD function as DATA (+), and TXD functions as DATA (–).

4.5.4. If the Alarm inputs or relay outputs are being used, connect the appropriate stripped wires to the 8-pin Alarm connector per FIGURE 2.

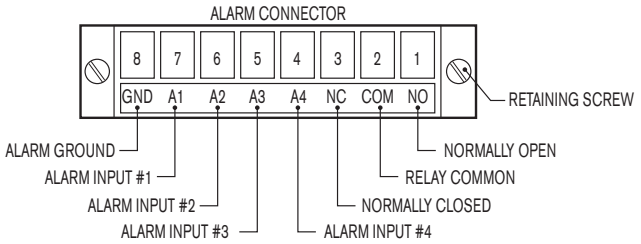


Figure 2

4.5.5. Lift the AutoDome into the Pendant Arm and align the notch on the AutoDome with the notch on the side of the pendant arm (see PHOTO 4M).

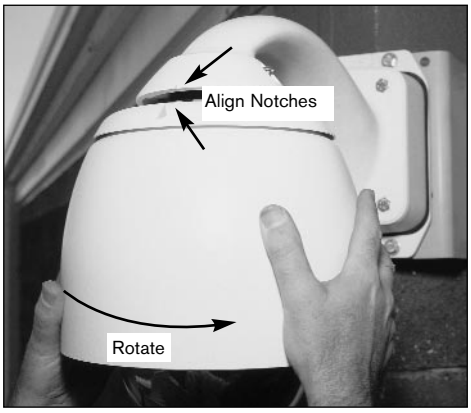


Photo 4M Align the Dome with the Pendant Arm

4.5.6. Twist the dome counterclockwise until it stops turning (approximately a 90° rotation).

4.5.7. Tighten the two (2) slotted locking screws at the top of the dome (as shown in PHOTO 4N).

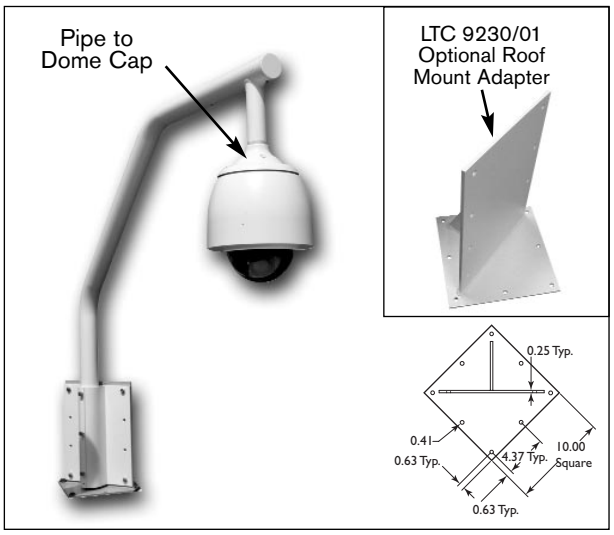
Photo 4N Tighten the Screws on the Pendant Arm

SECTION B
PARAPET AND PIPE MOUNTS

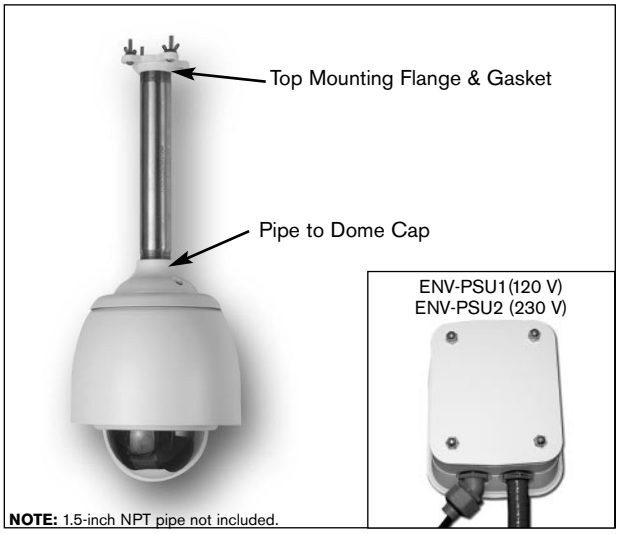
1 DESCRIPTION

This section details mounting of the AutoDome using the Roof (parapet) or Pipe mount. Any differences concerning these installations are noted herein.

The LTC 9230 Series are stationary mounts intended for rooftop parapet vertical walls. Used for all Philips' AutoDome systems up to a rated load of 29 kg (64 lb), these mounts are made of light-weight aluminum with a corrosion-resistant finish. Mounts can be fitted to the inside or outside of parapet walls, and can be swiveled for ease of positioning, and servicing the AutoDome. Either the ENV-PSU1 (120 V) or ENV-PSU2 (230 V) is included in kits with transformers.



LTC 9230/00 Parapet Mount



LTC 9543/00 Pipe Mount

2 UNPACKING

Unpack carefully. This equipment should be handled with care to prevent damage.

Check for the following items and part numbers:

APPLICABLE PRODUCT	PART# *
Parapet Mount Kit:	
Parapet Mount	LTC 9230/00
Pipe to Dome Cap	303 3092 003
Kits w/Transformer or Fiber Optics include one of the following: • Transformer - 120 VAC / 230 VAC	ENV-PSU1 / ENV-PSU2
• Transformer w/Fiber Optic Module - 120 VAC / 230 VAC	ENV-PSU1F / ENV-PSU2F
Bag of Parts (See below)	
Optional Adapter for Above (not included):	
Flat Roof Mount Adapter	LTC 9230/01
Bag of Parts (See below)	
Pipe Mount Kit:	
Top Mounting Flange	303 2457 007
Gasket for above Flange	303 2599 001
Pipe to Dome Cap	303 3092 003
Kits w/Transformer or Fiber Optics include one of the following: • Transformer - 120 VAC / 230 VAC	ENV-PSU1 / ENV-PSU2F
• Transformer w/Fiber Optic Module - 120 VAC / 230 VAC	ENV-PSU1F / ENV-PSU2F
Bag of Parts (See below)	

*Kits with AutoTracker end in "T".
Kits with Surge Protection end in "SP".

Bag of Parts:

The following items are shipped in a separate bag:

- One (1) 3-pin power connector.
- Two (2) Rubber hole plugs.
- One (1) Green ground screw.
- One (1) Ring terminal for ground wire.
- One (1) 9-pin signal/power connector.
- One (1) 3-pin alarm connector (AutoTracker only).
- One (1) 6-pin signal connector (not included with fiber units).

If any items appear to have been damaged in shipment, replace the item(s) properly in the shipping carton and notify the shipping company. If any items are missing, notify your Bosch Sales Representative or Customer Service Representative.

Service Centers

U.S.A.: Phone: 800-366-2283 or 408-956-3895
fax: 800-366-1329 or 408-956-3896
e-mail: NationalServiceCenter@ca.slr.com
Canada: 514-738-2434
Europe, Middle East & Asia Pacific Region:
32-1-440-0711

For additional information, see www.boschsecuritysystems.com.

NOTE: The shipping carton and all packing materials should be retained, in case transporting the unit is necessary. This will ensure safe transport of all components.

3 TOOLS REQUIRED

- ⅜-inch wrench or socket
- 5⁄16-inch wrench or socket
- 16 mm wrench or socket (if using metric fasteners)
- Standard screwdriver
- Thread sealant or pipe tape
- Other tools as needed for preparing the mounting surface

4 ACCESSORIES (Not Included)

- LTC 9230/01 Flat Roof Adapter for Parapet Mount

5 INSTALLATION

5.1 Rough Wiring

Whether using the supplied transformer (ENV-PSU) or another approved 24 VAC power supply, refer to APPENDIX A for distance limitations from dome.

Photo 5A Power Supply Enclosure

5.2 Mounting the Transformer Box ENV-PSU

ATTENTION: POWER and CONTROL wiring MUST enter the box through separate holes.

5.2.1. If wiring the Power Supply box through the bottom of the enclosure instead of the back, remove the plugs from the bottom of the box (as shown in PHOTO 5A), and use them to close the holes in the back of the mounting plate.

5.2.2. Remove the box from the mounting plate so that the plate with the four (4) carriage bolts (supplied) may be mounted separately.

5.2.3. Use only liquid-tight fittings or liquid-tight conduit fittings in the two (2) holes in the back of the mounting plate, or the bottom of the power supply unit. When using liquid-tight fittings, it is important to use the appropriate cable width for a snug fit. If a snug fit is not possible, any liquid-tight ¾-inch conduit fitting may be used instead.

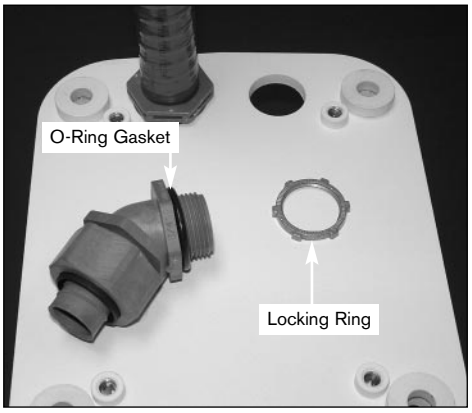


Photo 5B

NOTE: The fittings shown in the photos are some examples of ¾-inch PVC watertight conduit fittings with an O-Ring gasket and locking nut.

5.2.4. If the wires are to connect through the back of the mounting plate, feed them through the liquid-tight or conduit fittings in the mounting plate.

5.2.5. Secure the mounting plate to a stable surface; using four (4) fasteners (not included) that can each withstand 120 kg (265 lb). A minimum 0.64 cm (¼-inch) stud (maximum of 10 mm [⅜-inch] stud) or equivalent is recommended.

5.2.6. Remove the input POWER and SIGNAL connectors from the board.

5.2.7. Strip the wires and connect the appropriate connectors to the stripped wires, then tighten the screws securely(see FIGURE 1).

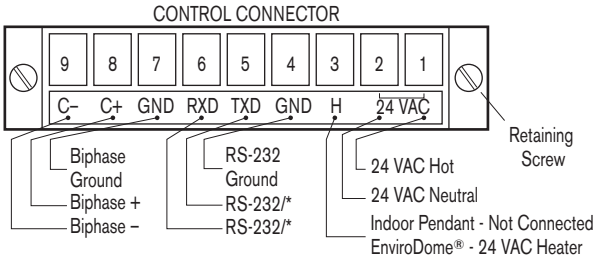


Figure 1

5.2.8. If the AutoTracker option is being used, the RS-232 connections (RXD,TXD and GND) must be wired. The data cable used should be twisted and shielded, with a maximum distance of 50 feet.

* If the internal slide switch is set for RS-485 operation, then RXD functions as DATA (+), and TXD functions as DATA (–).

5.2.9. Per PHOTO 5C, connect the EARTH GROUND to the green screw.

5.2.10. Connect the CONTROL and POWER connectors to the board.

NOTE: If installing the fiber optic version, bring video coax and fiber optic cable into the box and connect as shown in PHOTO 5C. Philips' LTC 4629 Fiber Transceiver is required at head end system.

- Optical Fiber Compatibility: 50/125 mm, 62.5/125 mm, low loss multimode glass fiber, rated for a minimum system bandwidth of 20 MHz (video 850 nm/control 1300 nm)
- Maximum Distance: 4 km (2.5 miles)

NOTE: Inspect the enclosure fittings after installation to ensure that the gaskets have not been damaged, replacing as necessary.

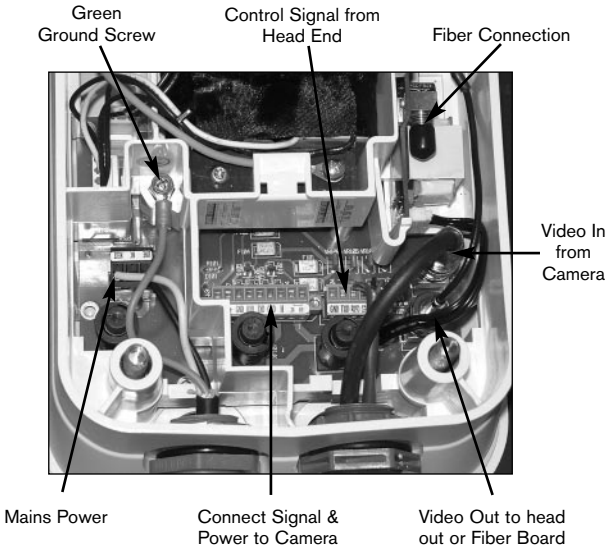


Photo 5C Interior View of ENV-PSU1F

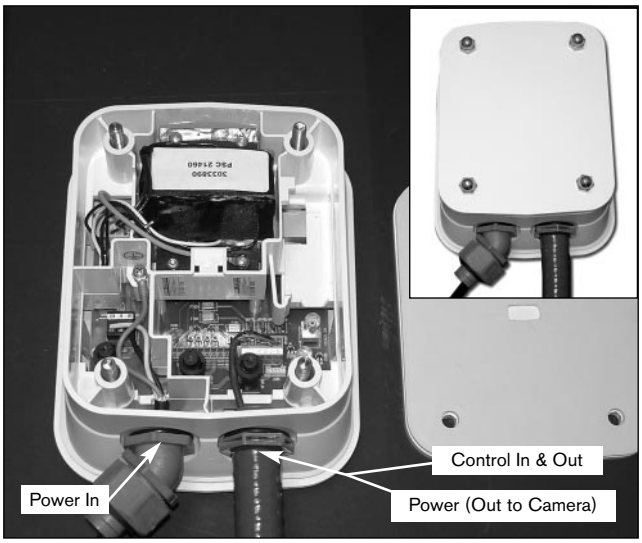


Photo 5D Power Supply Enclosure

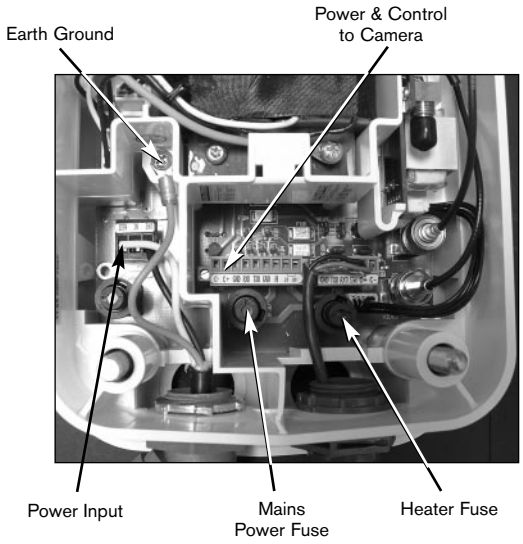


Photo 5E Power Supply Board

5.3 Mounting of Pipe and Roof (Parapet) Mounts

5.3.1 LTC 9543/00 Pipe Mount

5.3.1.1 TOP-MOUNTING FLANGE

Included with the Pipe Mount is a top-mounting flange. If this flange is to be used, be sure it is secured to the ceiling (or other supporting structure) using a minimum of four (4) 10 mm (⅜-inch) diameter fasteners.

NOTE: For safety purposes, each fastener should have a minimum of 275 kg (600 lbs) pullout strength. If the unit is exposed to the elements, use the supplied gasket between the flange and the structure.

All wiring must be run through the center of the flange. Ensure there is an adequate opening in the ceiling (or mounting structure) for this purpose.

5.3.1.2 CONNECTING PIPE TO STRUCTURE

Once the flange is mounted, run the wires through the flange and into the pipe.

Apply Teflon Tape (provided) to the pipe threads, then thread the pipe into the flange.

Proceed to SECTION 5.4, ATTACHING THE DOME.

5.3.2 LTC 9230/00 Roof (Parapet) Mount

NOTE: For Wind Loading specifications, refer to the LTC 9230/00, LTC 9230/01 PARAPET MOUNTS INSTALLATION INSTRUCTIONS, SECTION 7.1.

5.3.2.1 MOUNTING HARDWARE

Mounting hardware has not been included, as it must be selected to work with the type of wall to which the unit will be mounted.

CAUTION:

- For a secure installation, use a minimum of six (6) 10 mm (⅜-inch) diameter fasteners; three (3) on each side of the mounting bracket. Use stainless steel fasteners.
- If bolts are used, they should extend through the mounting surface and be secured with flat washers, lock washers, and nuts on the opposite side. Each bolt must have a minimum pullout strength of 275 kg (600 lb).
- If studs are used, they should be anchored in concrete or welded to a steel backer plate. Each stud must have a minimum pullout strength 275 kg (600 lb).
- If the wall mount is attached to wood or to a blind structure (with no access to the rear), each fastener must have a minimum pullout strength of 275 kg (600 lb).

5.3.2.2 PARAPET WALL INSTALLATION

a. Determine the location of the unit on the wall. Choose a location to allow the mounting bracket to be placed as close as possible to the top of the wall. This will allow the best chance for the AutoDome to clear the wall when it is swung into position, and for maintenance.

CAUTION: Allow enough room below the mounting bracket for routing the camera and control tubes.

b. Using the wall mounting bracket as a template, position it in the desired location and mark the hole locations on the wall (see FIGURE 2). Use a minimum of six (6) fasteners (not supplied): three (3) fasteners for each side of the mounting bracket.

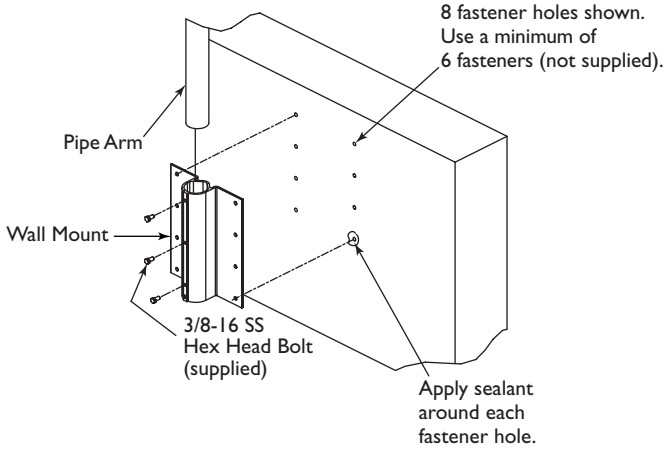


Figure 2 Installation of Wall Mount to a Wall

c. Prepare the mounting surface for the type of fasteners that will be used by drilling holes or mounting anchors, etc. as required.

CAUTION: Use six (6) 10 mm (⅜-inch) diameter stainless steel fasteners (not supplied). Each fastener must be able to withstand a minimum pull-out force of 275 kg (600 lb).

d. Apply a good quality sealant around each hole, anchor or stud at the mounting surface (see FIGURE 2).
e. Install the mounting bracket and tighten all fasteners securely.
f. After removing the pipe arm end cap, feed all electrical and control cables through the pipe arm and out the bottom of the mounting bracket.
g. Insert the pipe arm into the mounting bracket until it bottoms.
h. Apply thread sealant or pipe tape to the pipe threads to prevent gapping and water leakage. Attach the AutoDome to the pipe arm at the pipe thread.

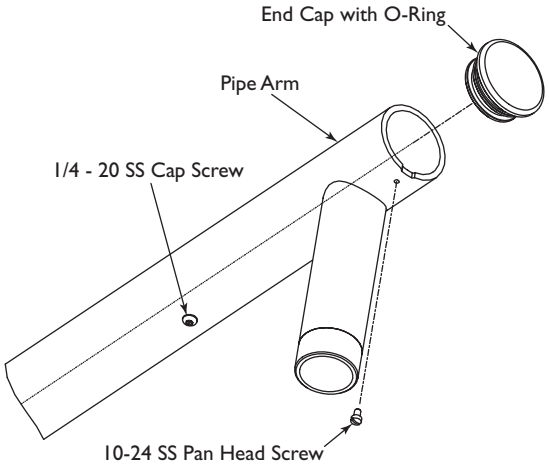


Figure 3 LTC 9230 with End Cap Removed

CAUTION: To prevent accidental loosening, the pipe connection should be threaded until it is fully secure (a minimum of four (4) complete turns).

Secure the AutoDome or housing according to the instructions with that unit.

i. Make all electrical connections. In some installations, lifting of the pipe arm may be required for the AutoDome to clear the top of the wall when it is swung into position. Be sure to allow enough cable slack to permit rotating the pipe arm out over the roof and swinging it back again when camera maintenance is required.

j. Rotate the pipe arm to swing the AutoDome out from the roof and into the desired position. Tighten the three (3) 10 mm (⅜-inch) stainless steel hex bolts (provided; see FIGURE 2) to secure the pipe arm into position.

CAUTION: Do not over tighten the bolts or stripping of the threads may occur. Maximum torque is 34 N·m (25 ft·lb).

k. If desired, the position of the pipe arm may be registered with the mounting bracket by removing the bottom ⅜-inch hex bolt and drilling through its hole and into the pipe arm with a 5⁄16-inch drill bit.

CAUTION: The drill need not go through the pipe arm wall (damage to the electrical cables may result) but only deep enough to create a pocket into which the tip of the bolt will fit. Allow the tapped hole to guide the drill; avoid damaging the threads.

5.3.2.3 FLAT ROOF INSTALLATION

a. Determine the location of the Roof Mount on the roof.
b. Using the Roof Mount as a template, position it in the desired location and mark the hole locations on the roof surface.

CAUTION: Use six (6) 10 mm (⅜-inch) diameter stainless steel fasteners (not supplied). Each fastener must be able to withstand a minimum pull-out force of 275 kg (600 lb).

c. Prepare the mounting surface for the type of fasteners being used by drilling holes or mounting anchors, etc. as required.
d. Apply a good quality sealant around each hole, anchor or stud at the mounting surface.
e. Install the Roof Mount and tighten all fasteners securely.
f. Fasten the Wall Mount to the Roof Mount using the (⅜-16x1) stainless steel bolts, flat washers, lock washers and nuts supplied.
g. Follow the instructions in SECTION 5.3.2.2, starting at STEP F.

5.4 Attaching the Dome

5.4.1 Connect the Dome Cap to the Threaded Pipe

5.4.1.1. Apply the Teflon tape (provided) to the pipe threads as shown in PHOTO 5F.

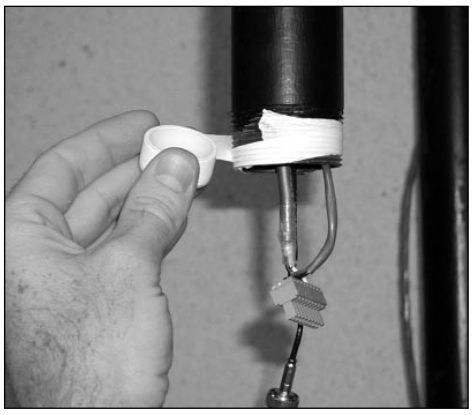


Photo 5F Applying Teflon Tape to the Pipe

5.4.1.2. Thread the 24 VAC, video, and data cables through the mount pipe to the dome, allowing all wires to hang from the opening at least 15 cm (6-inches) (as shown in PHOTO 5G).

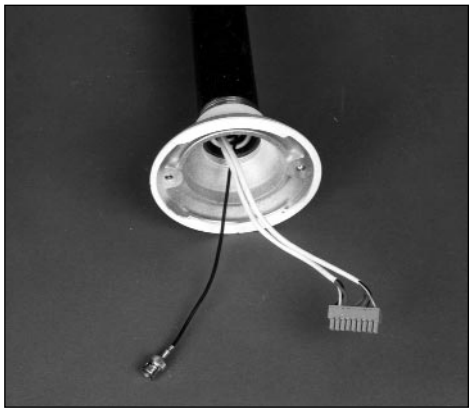


Photo 5G

5.4.2 Cable Connections

5.4.2.1. Wire the 9-pin connector (refer to FIGURE 1 in SECTION 5.2.7 for configuration) and tighten the screws.

NOTE: If the dome's Biphase is wired in a star configuration, or is the last dome on a daisy chain, a 110 Ω terminating resistor (included) is necessary across pin 8 (C+) and pin 9 (C–).

5.4.2.2. Connect the 9-pin connector (from previous step) as shown in PHOTO 5H, and tighten the retaining screws.

5.4.2.3. Connect the VIDEO (BNC) cable to the VIDEO (BNC) connector as in PHOTO 5H.

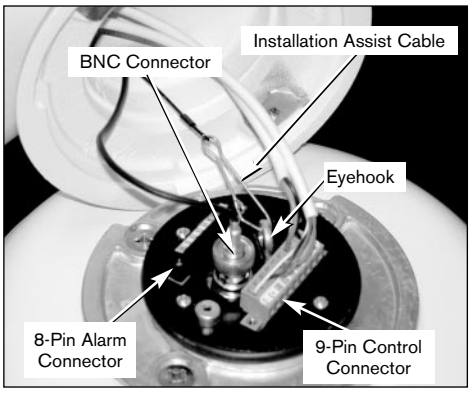


Photo 5H

5.4.2.4. If the Alarm inputs or contact output are being used, connect the appropriate stripped wires to the 8-pin Alarm connector per FIGURE 4.

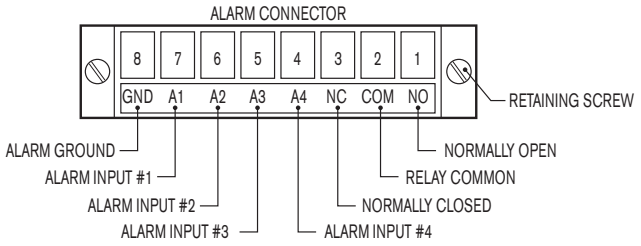


Figure 4

NOTE: The Alarm inputs must be connected to a Normally Open dry contact. To activate the Alarm input, the contact must close between the appropriate Alarm Input and the Alarm Ground, pin #8. For example, to activate Alarm Input #1, the relay must close between pins 7 & 8, (see FIGURE 4).

The maximum distances between the dry contact and the AutoDome are as follows:

20 AWG	19,000 feet
22 AWG	12,000 feet

5.4.3 Align the Dome

5.4.3.1. Lift the AutoDome into the Dome Cap and align the notch on the AutoDome with the notch on the side of the Dome Cap, (as shown in PHOTO 5I).

5.4.3.2. Twist the dome counterclockwise until it stops turning (approximately a 90° rotation).

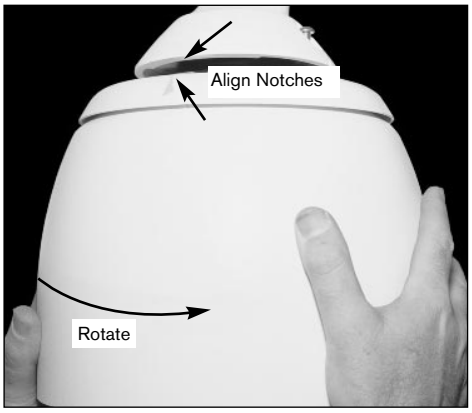


Photo 5I

5.4.3.3. Tighten the two slotted locking screws at the top of the dome, as shown in PHOTO 5J.

Photo 5J

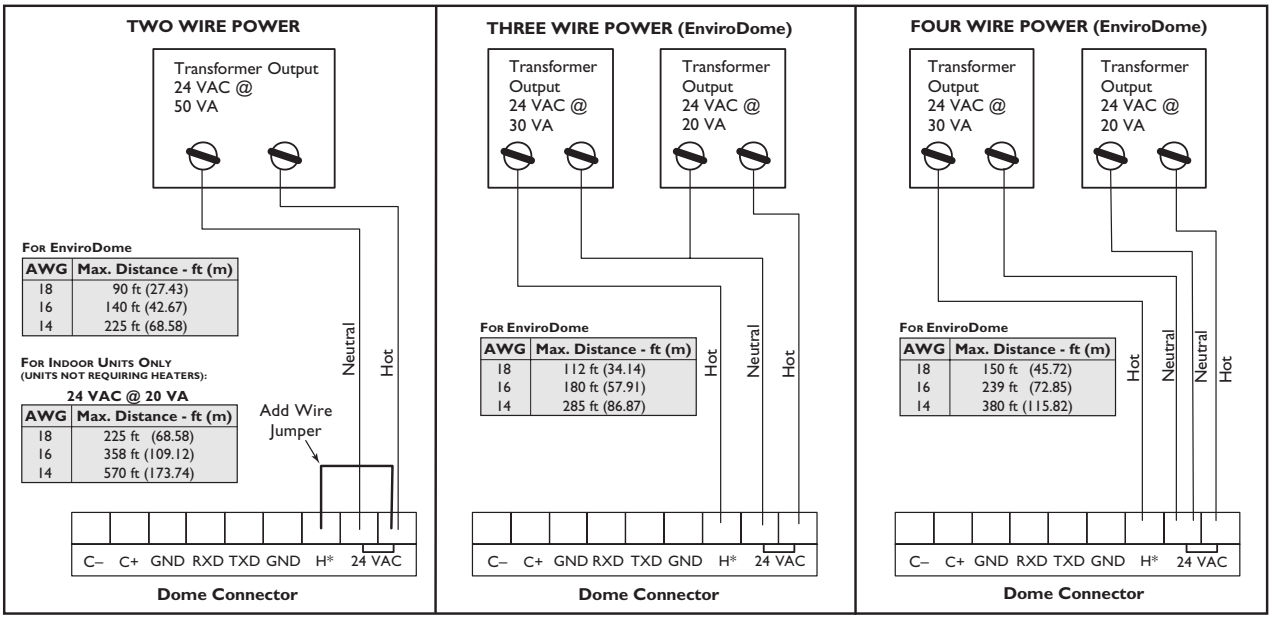
APPENDIX A
Power Wiring Guide

AutoDome Power Wiring Connections

Refer to the following diagram to ensure proper wiring of the EnviroDome. If using the ENV-PSU for power, use the THREE WIRE POWER distances identified below.

WARNING: Failure to correctly wire the power to the EnviroDome could result in malfunction of the heater.

NOTE: If using the ENV-PSU with the AutoTracker option, the RS-232 connections (RXD, TXD, GND) must be used. The maximum distance for RS-232 communications is 50 feet.



*Heater connection for EnviroDome only.

Figure 5

APPENDIX B
Specifications and Dimensions

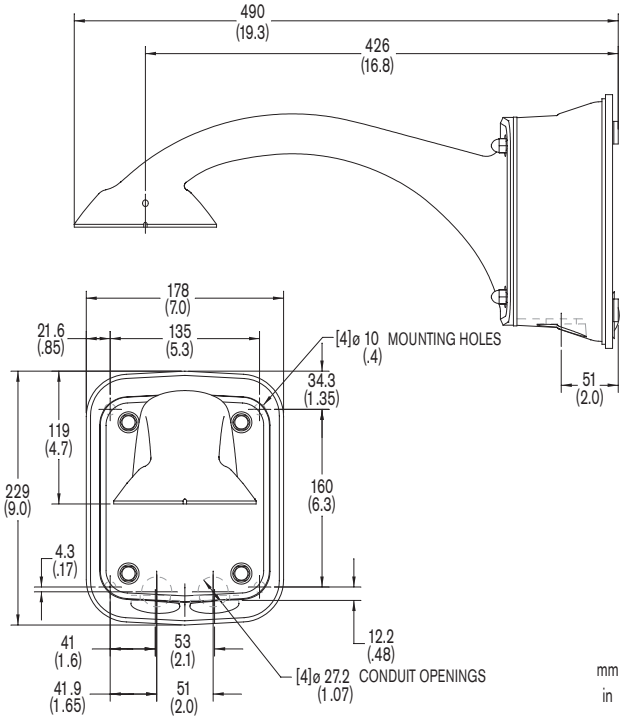
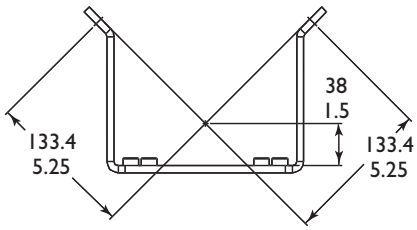


Figure 6 ENV-PA1 (120 V), ENV-PA2 (230 V) & ENV-PA0 (24 V) Wall Mount – 120/60 Hz & 230/50 Hz



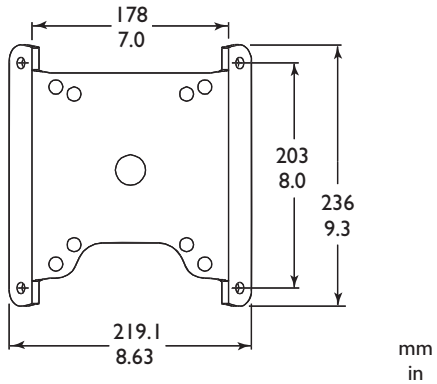


Figure 7 LTC 9542/01 Corner Mount Plate

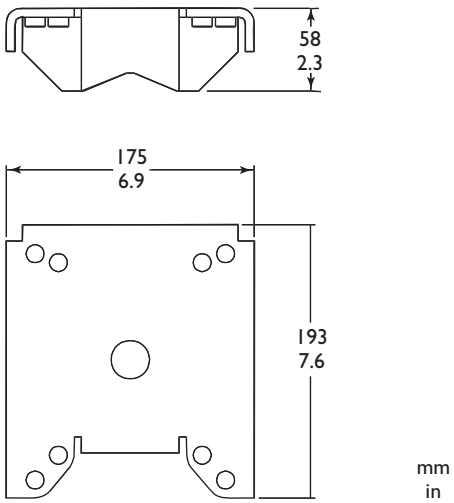


Figure 8 LTC 9541/01 Mast (Pole) Mount Plate

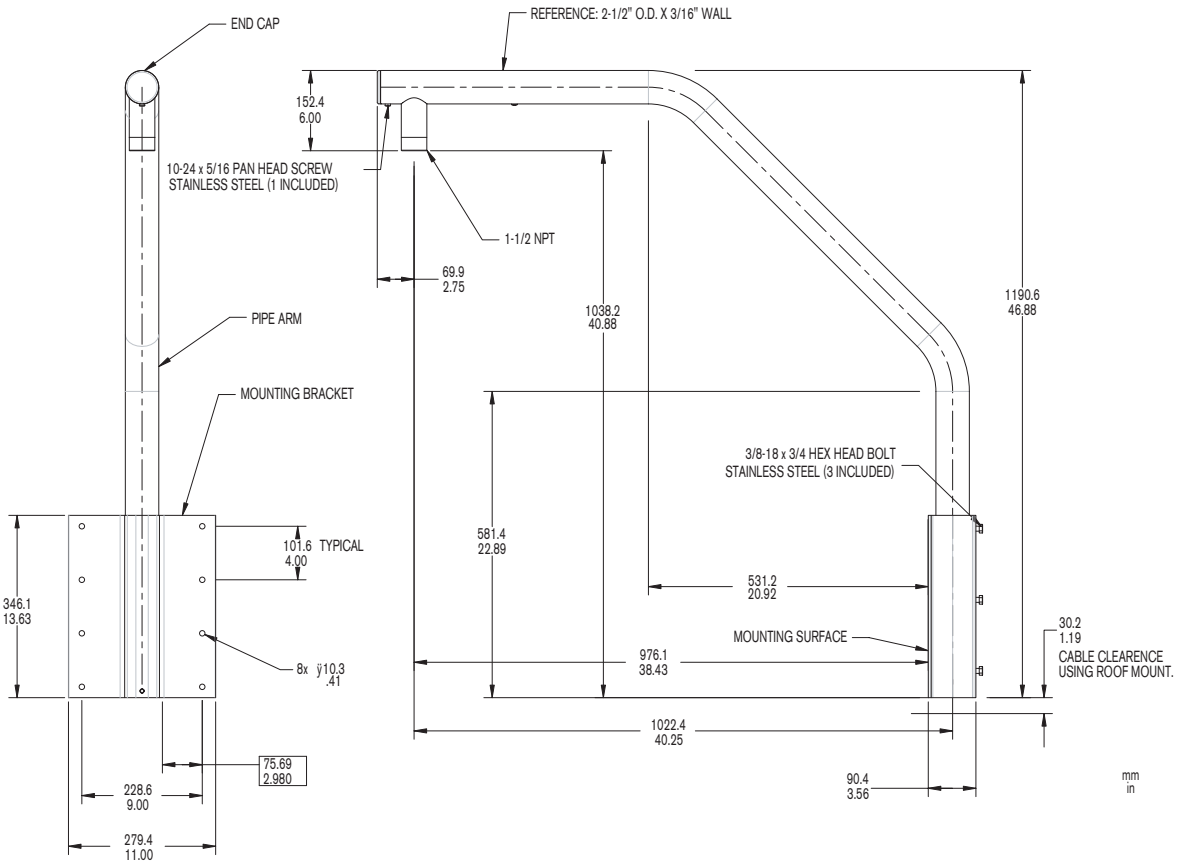


Figure 9 LTC 9230/00 Roof (Parapet) Mount

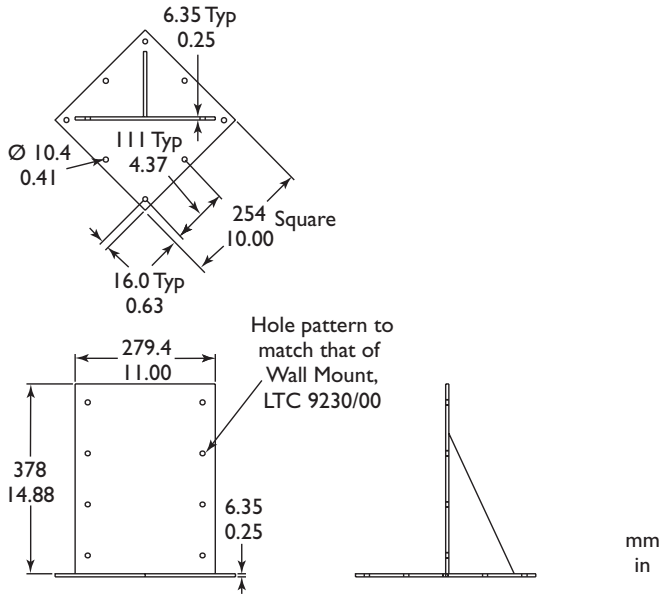


Figure 10 LTC 9230/01 Roof Mount

APPENDIX C
Service Parts

Description	Part Number
Carriage Bolts, 5/16-inch, 4-inch long	303 4036 001
Mounting Bolts, 3/8-inch, 1-inch long	303 2603 033
Acorn Nuts, 5/16-inch	303 4004 001
Rubber Hole Plug	303 3971 001
Green Ground Screw, #8-32 x 1/2-inch	303 3974 001
Ring Terminal, ground screw	315 0816 900
3-Pin Power Connector w/label	303 2622 503
6-Pin Signal Connector, w/label & resistor	303 3123 516
9-Pin Signal/Power Connector	303 3123 109
Label, Signal/Power Connector	303 3242 102
3-Pin Alarm Connector	303 1759 003 (AutoTracker only)
Label, Alarm Connector	303 3242 005 (AutoTracker only)
Cable, BNC, RG174, male/female	303 3538 503 (ENV-PAO only)
Cable, BNC, RG174, female/female	303 3972 001
Cable, Signal/power prewired, 22-inch L	303 3356 009
Fuse, XF105, (120 VAC) T1.6A	302 8085 019
Fuse, XF105, (230 VAC) T630 mA	302 8085 014
Fuse, XF106, (Both Models) F1.6A	303 3894 018
Fuse, XF107, (Both Models) F2.0A	303 3894 019

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