

Installation and Operation Instructions for the following unitized outdoor camera models:

UNI-ONER / EP SERIES

Outdoor 24VAC Clear Dome

UNI-ONER580C2	Unitized SNC-ER580 pendant type, clear dome, with heater and blower
UNI-ONER550C2	Unitized SNC-ER550 pendant type, clear dome, with heater and blower
UNI-ONER520C2	Unitized SNC-ER520 pendant type, clear dome, with heater and blower
UNI-ONEP580C2	Unitized SNC-EP580 pendant type, clear dome, with heater and blower
UNI-ONEP550C2	Unitized SNC-EP550 pendant type, clear dome, with heater and blower
UNI-ONEP520C2	Unitized SNC-EP520 pendant type, clear dome, with heater and blower

Note: AC 24V power supply for the camera and the heater/blower is an installer/reseller provided item. Please refer to page 3 **Electrical Specifications** for power consumption details.

Note: Please note that to achieve the increased depth with the aspheric design for optimal camera lens to capsule orientation, the capsule is slightly angled around the highest section. This creates a "line", visible to the naked eye, around the upper most section of the capsule. This "line" serves as the geometric center line used to insure proper camera placement. It is not typically seen by the camera. However, this line maybe visible in the camera image when camera's above horizon tilt capability is used.

IMPORTANT SAFEGUARDS

1. Read instructions - All the safety and operating instructions should be read before the unit is operated.
2. Retain instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the unit and in the operating instructions should be adhered to.
4. Follow instructions - All operating and user instructions should be followed.
5. Electrical Connections - Only a qualified electrician should make electrical connections.
6. Attachments - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. Cable Runs - All cable runs must be within permissible distance.
8. Mounting - This unit must be properly and securely mounted to a supporting structure capable of sustaining the weight of the unit.

Accordingly:

- a. The installation should be made by a qualified installer.
- b. The installation should be in compliance with local codes.
- c. Care should be exercised to select suitable hardware to install the unit, taking into account both the composition of the mounting surface and the weight of the unit.

Be sure to periodically examine the unit and the supporting structure to make sure that the integrity of the installation is intact. Failure to comply with the foregoing could result in the unit separating from the support structure and falling, with resultant damages or injury to anyone or anything struck by the falling unit.

UNPACKING

Unpack carefully. Electronic components can be damaged if improperly handled or dropped. If an item appears to have been damaged in shipment, replace it properly in its carton and notify the shipper.

Be sure to save:

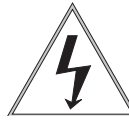
1. The shipping carton and packaging material. They are the safest material in which to make future shipments of the equipment.
2. These Installation and Operating Instructions.

SERVICE

If technical support or service is needed, contact Sony at the following number:

TECHNICAL SUPPORT
8:15 AM to 7:30 PM
(EASTERN TIME)
1- 800 - 883 - 6817

SAFETY PRECAUTIONS

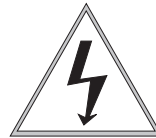


CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



**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.**



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

Este símbolo se piensa para alertar al usuario a la presencia del "voltaje peligroso no-aislado" dentro del recinto de los productos que puede ser un riesgo de choque eléctrico.

Ce symbole est prévu pour alerter l'utilisateur à la présence "de la tension dangereuse" non-isolée dans la clôture de produits qui peut être un risque de choc électrique.

Dieses Symbol soll den Benutzer zum Vorhandensein der nicht-isolier "Gefährdungsspannung" innerhalb der Produkteinschließung alarmieren die eine Gefahr des elektrischen Schlages sein kann.

Este símbolo é pretendido alertar o usuário à presença "di tensão perigosa non-isolada" dentro do cerco dos produtos que pode ser um risco de choque elétrico.

Questo simbolo è inteso per avvertire l'utente alla presenza "di tensione pericolosa" non-isolata all'interno della recinzione dei prodotti che può essere un rischio di scossa elettrica.



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.

Este símbolo del punto del exclamation se piensa para alertar al usuario a la presencia de instrucciones importantes en la literatura que acompaña la aplicación.

Ce symbole de point d'exclamation est prévu pour alerter l'utilisateur à la présence des instructions importantes dans la littérature accompagnant l'appareil.

Dieses Ausruf Punktsymbol soll den Benutzer zum Vorhandensein de wichtigen Anweisungen in der Literatur alarmieren, die das Gerät begleitet.

Este símbolo do ponto do exclamation é pretendido alertar o usuário à presença de instruções importantes na literatura que acompanha o dispositivo.

Questo simbolo del punto del exclamation è inteso per avvertire l'utente alla presenza delle istruzioni importanti nella letteratura che accompagna l'apparecchio.

Electrical Specifications

UNI-ON



Power 24VAC, Class 2 Only

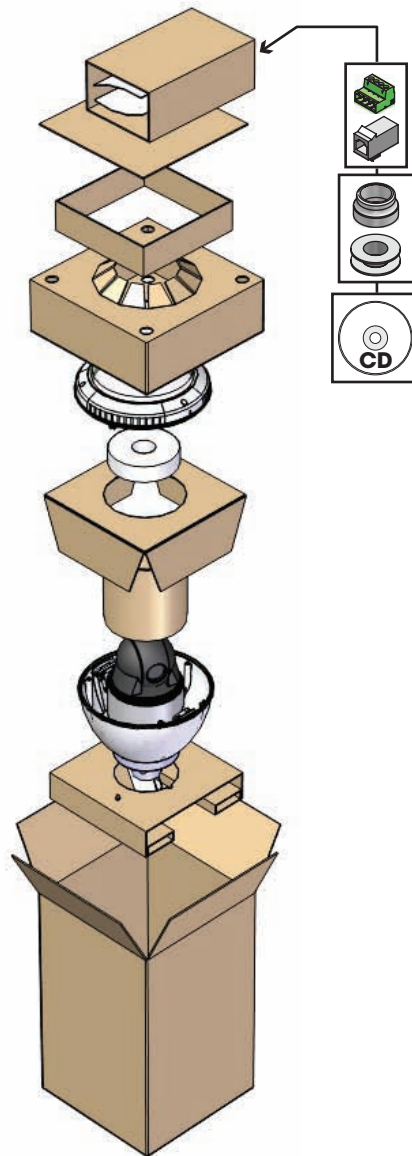
- **UNI-ON**
26 Watts at 24 VAC (Heater and Blower)
Camera: 25 Watts at 24VAC
- **UNI-ON**
26 vatios en 24VAC (calentador y soplador)
Cámara: el 25 Watts a 24VAC
- **UNI-ON**
26 watts à 24VAC (réchauffeur et ventilateur)
Camera: 25 Watts à 24VAC
- **UNI-ON**
26 Watt an 24VAC (Heizung und Gebläse)
Kamera: 25 Watt bei 24VAC
- **UNI-ON**
26 watts em 24VAC (calefator e ventilador)
Câmara: de 25 Watts a 24VAC
- **UNI-ON**
26 watt a 24VAC (riscaldatore e ventilatore)
Camera: 25 Watt a 24VAC



Operating Temperature Specifications

-29°C to 50°C (-20°F to 122°F)

Contents of Box



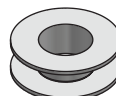
Contents of Box Details



(1) 4 Pin Power Connector



(1) RJ45 Coupling



(1) Teflon Tape



(1) Pendant Gasket

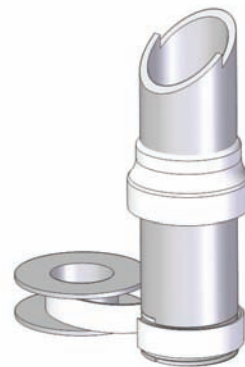
1



Securely attach pendant pipe or the UNI-WMB1 (See block 9 when using UNI-WMB3). Pull wiring through pipe and position grommet as shown.

- Con seguridad pipa pendiente de la fijación o el UNI-WMB1 (véase el bloque 9 para UNI-WMB3). Tire del cableado a través de la pipa y del ojal de la posición como se muestra.
- Solidement pipe pendante d'attache ou l'UNI-WMB1 (voir le bloc 9 pour UNI-WMB3). Tirez le câblage par la pipe et le canon isolant de position comme montré.
- Sicher hängendes Rohr der Befestigung oder das UNI-WMB1 (sehen Sie Block 9 für UNI-WMB3). Ziehen Sie Verdrahtung durch Rohr und Positionsgummimuffe wie gezeigt.
- Firmemente tubulação do pendente do anexo ou o UNI-WMB1 (veja o bloco 9 para UNI-WMB3). Puxe a fiação através da tubulação e do ilhó da posição como mostrado.
- Saldamente tubo del pendente dell'attaccatura o il UNI-WMB1 (vedi il blocco 9 per UNI-WMB3). Tirí i collegamenti tramite il tubo ed il gommino di protezione di posizione come indicato.

2



Wrap Teflon™ tape around the pipe threads to ensure a tight seal.

- La cinta del Teflon del abrigo alrededor de la pipa rosca para asegurar un sello apretado.
- La bande de teflon d'enveloppe autour de la pipe fileté pour assurer un joint serré.
- Verpackung Teflonklebeband um das Rohr verlegt, um eine feste Dichtung sicherzustellen.
- A fita adesiva do Teflon do envoltório em torno da tubulação enfia para assegurar um selo apertado.
- Il nastro del Teflon dell'involucro intorno al tubo filetta per accertare una guarnizione stretta.

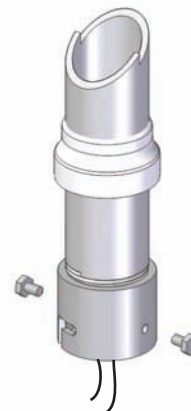
3



Screw the coupling onto the pipe threads until it is hand tight.

- Atornille el acoplador sobre los hilos de rosca de la pipa hasta que es mano firmemente.
- Vissez le couplage sur les fils de pipe jusqu'à ce que ce soit main fortement.
- Schrauben Sie die Koppelung auf die Rohrgewinde, bis es Hand fest ist.
- Parafuse o acoplamento nas linhas da tubulação até que esteja mão firmemente.
- Avviti l'accoppiamento sui filetti del tubo fino a che non sia fortemente mano.

4



Screw the (2) bolts into the coupling.

- Atornille (2) los pernos en el acoplador.
- Vissez (2) les boulons dans l'accouplement.
- Schrauben Sie die (2) Schraubbolzen in die Koppelung.
- Parafuse (2) os parafusos no acoplamento.
- Avviti (2) i bulloni nell'accoppiamento.

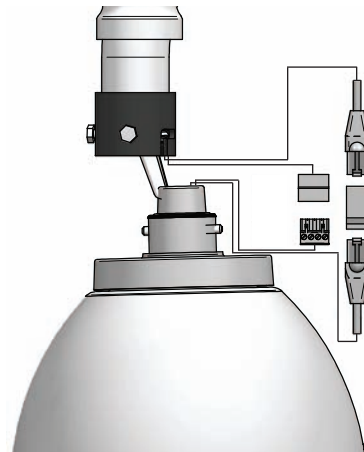
5



Loop the lanyard over the set screw to temporarily hold housing.

- Loop el cordón sobre el tornillo de fijación para mantener temporalmente de la vivienda.
- Boucle de la longe sur la vis de réglage pour détenir temporairement des logements.
- Loop das Trageband über die Stellschraube, um vorübergehend halten Gehäuse.
- Loop o colhedor sobre o parafuso para prender temporariamente habitação.
- Loop il cordino sulla vite di tenere temporaneamente alloggi.

6



Make the appropriate wiring connections from the dome to the pendant mount.

- Hacer las conexiones de cableado de la cúpula de la pendiente de montaje.
- Faites le câblage de la coupole à la suspension de montage.
- Nehmen Sie die entsprechenden Kabel-Verbindungen von der Kuppel auf dem Anhänger montiert.
- Faça as conexões de cabos da cúpula para o pingente montagem.
- Apportare le opportune connessioni cablaggio dalla cupola a montare il ciondolo.

7



Undo the lanyard, pull housing up and twist secure with the locking bolt and washers.

- Deshaga el acollador, tire de contener para arriba y tuerza seguro con el perno y las arandelas de fijación.
- Défaites la lanière, tirez loger vers le haut et tordez bloqué avec le boulon et les rondelles de fermeture.
- Annulieren Sie die Abzuglinie, ziehen Sie oben unterbringen und verdrehen Sie sicheres mit dem verriegelnschraubbolzen und den Unterlegscheiben.
- Undo o colhedor, puxe abrigo acima e torça seguro com o parafuso e as arruelas travando.
- Undo la cordicella, tiri l'alloggio in su e torca sicuro con il bullone e le rondelle di bloccaggio.

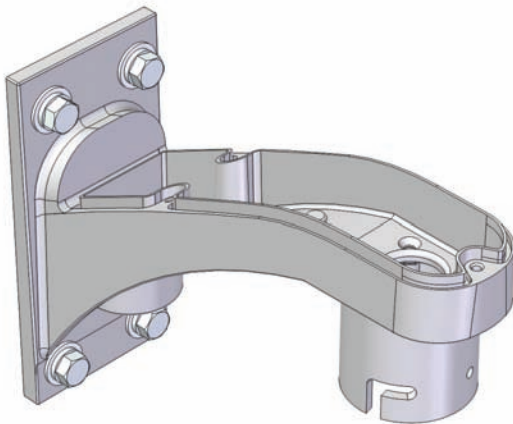
8



Slide the grommet down over the coupling to prevent water from entering and complete the assembly go to block 18.

- Deslice la arandela hacia abajo sobre el acoplamiento para evitar la entrada de agua y completar el montaje vaya a bloquear el 18.
- Faites glisser la rondelle vers le bas sur le couplage pour empêcher l'eau d'entrer et de compléter l'assemblage aller à bloc 18.
- Schieben Sie die Tülle nach unten über die Kopplung an das Eindringen von Wasser und füllen Sie die Montage gehen zu 18 sperren zu verhindern.
- Deslize o anel para baixo sobre o acoplamento para evitar a entrada de água e completar a montagem ir para o Bloco 18.
- Far scorrere la guarnizione giù sopra il giunto per impedire all'acqua di entrare e completare il montaggio andrà al blocco 18.

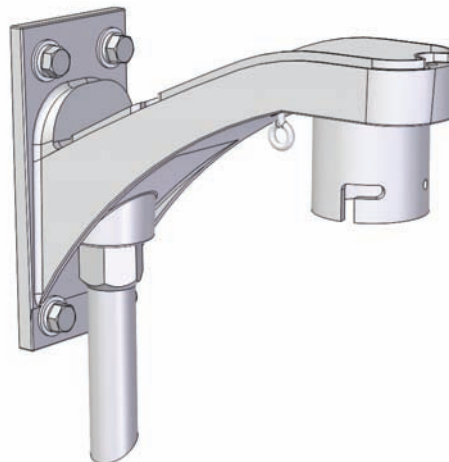
9



Install the wall mount bracket to a wall or adapter bracket.

- Instale el soporte del montaje de la pared a la pared o soporte del adaptador.
- Installez la parenthèse de bâti de mur sur le mur ou parenthèse d'adaptateur.
- Bringen Sie den Wandeinfassungshaltewinkel zur Wand an oder Adapterhaltewinkel.
- Instale o suporte da montagem da parede à parede ou suporte do adaptador.
- Installi la staffa del supporto della parete alla parete o staffa dell'adattatore.

10



If using external 3/4" (27mm) conduit attach appropriate hardware.

- Si usa conducto del 3/4 (27mm) externo el "ata apropiado hardware.
- Si conduit employant 3/4 (27mm) externe le » attachent approprié matériel.
- Wenn es externes verwendet, 3/4" (27mm) bringen Rohr passendes an Hardware.
- Se usando canalização do 3/4 (27mm) externo a" une apropiado ferragem.
- Se usando il condotto del 3/4 (27mm) esterno, attacca adatto fissaggi.

11



Remove housing coupling and gasket.

- Quite el acoplador y la junta de la cubierta.
- Enlevez l'accouplement et la garniture de logement.
- Entfernen Sie Gehäusekoppelung und -dichtung.
- Remova o acoplamento e a gaxeta da carcaça.
- Rimuova l'accoppiamento e la guarnizione dell'alloggiamento.

12



Attach safety lanyard to eyebolt.

- Ate el acollador de la seguridad al perno de argolla.
- Attachez la lanière de sûreté à l'oeil à queue fileté.
- Bringen Sie Sicherheitsabzuglinie zum Ringbolzen an.
- Una o colhedor da segurança ao parafuso tensor.
- Attacchi la cordicella di sicurezza al bullone a occhio.

13



Feed wiring into wall mount, complete connections.

- Cableado de la alimentación en el montaje de la pared, conexiones completas.
- Câblage d'alimentation dans le bâti de mur, raccordements complets.
- Zufuhrverdrahtung in Wandeffassung, komplette Anschlüsse.
- Fiação da alimentação na montagem da parede, conexões completas.
- Collegamenti dell'alimentazione nel supporto della parete, collegamenti completi.

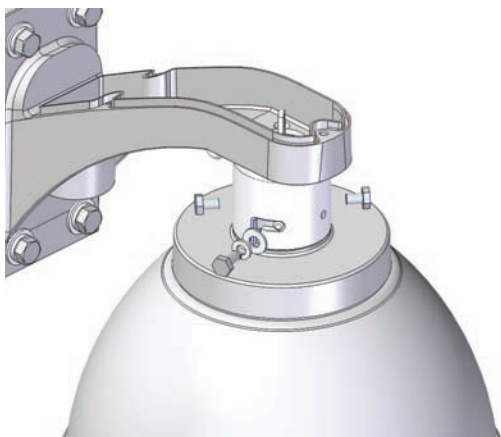
14



UNDO lanyard and connect housing to wall mount coupling.

- DESHAGA el acollador y conecte la cubierta con el acoplador del montaje de la pared.
- DÉFAITES la lanière et reliez le logement à l'accouplement de bâti de mur.
- ANNULIEREN Sie Abzuglinie und schließen Sie Gehäuse an Wandeffassungskoppelung an.
- UNDO o colhedor e conecte a carcaça ao acoplamento da montagem da parede.
- DISFACCIA la cordicella e colleghi l'alloggiamento all'accoppiamento del supporto della parete.

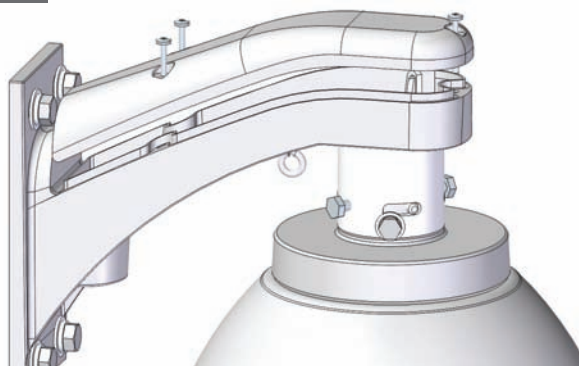
15



Attach safety hardware.

- Ate el hardware de la seguridad.
- Attachez le matériel de sûreté.
- Bringen Sie Sicherheits-Hardware an.
- Una a ferragem da segurança.
- Attacchi i fissaggi di sicurezza.

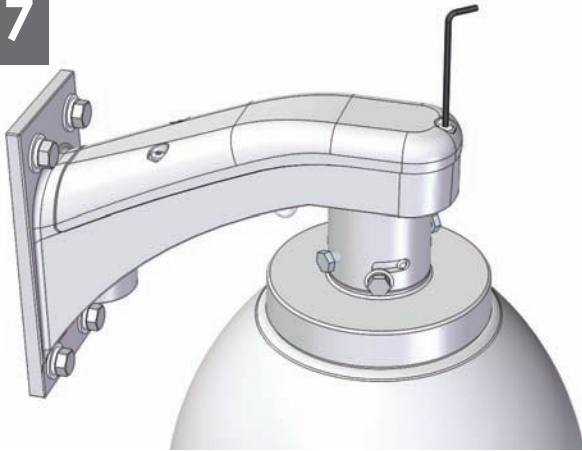
16



Install the upper cover to the main wall mount body.

- Instale la cubierta superior al cuerpo del montaje de la pared principal.
- Installez la couverture supérieure sur le corps de bâti de mur principal.
- Bringen Sie die obere Abdeckung zum Hauptwand-Effassungskörper an.
- Instale a tampa superior ao corpo da montagem da parede principal.
- Installi la copertura superiore al corpo del supporto della parete principale.

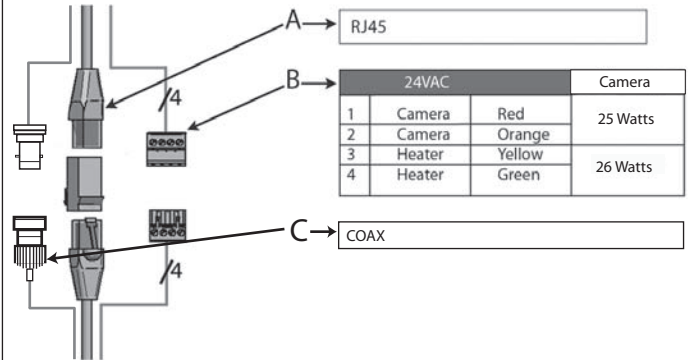
17



Secure the bolts with the provided Allen wrench.

- Asegure los pernos con la llave Allen proporcionada.
- Fixez les boulons avec la clé Allen Fournie.
- Sichern Sie die Schraubbolzen mit dem zur Verfügung gestellten Inbusschlüssel.
- Fixe os parafusos com a chave de Allen fornecida.
- Assicuri i bulloni con la chiave di Allen fornita.

18

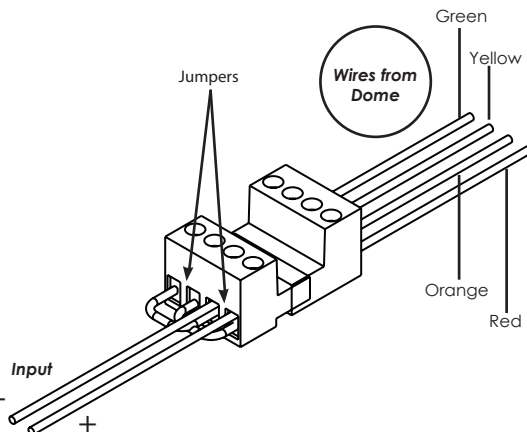


Wiring the dome can be completed by referring to the diagram.

- Atar con alambre la bóveda puede ser terminada refiriendo al diagrama.
- Le câblage du dôme peut être accompli en se rapportant au diagramme.
- Das Verdrahten der Haube kann durchgeführt werden, indem man auf das Diagramm sich bezieht.
- Wiring a abóbada pode ser terminado consultando ao diagrama.
- Legare la cupola può essere completato riferendosi allo schema.

Additional Wiring Information

19



Add 2 jumpers if using a common power supply for the camera, heater & blower.

- Añadir 2 jumpers si utiliza una fuente de alimentación para la cámara, calefacción y ventilador.
- Ajoutez 2 cavaliers si vous utilisez une alimentation pour l'appareil photo, appareil de chauffage et de soufflerie.
- Add 2 Jumper, wenn Sie eine gemeinsame Stromversorgung für die Kamera, Heizung & Gebläse.
- Adicionar 2 jumpers comum se utilizar uma fonte de alimentação para a câmara, aquecedor e ventilador.
- Aggiungere 2 ponticelli se si utilizza un alimentatore per la fotocamera, riscaldamento e ventilatore.

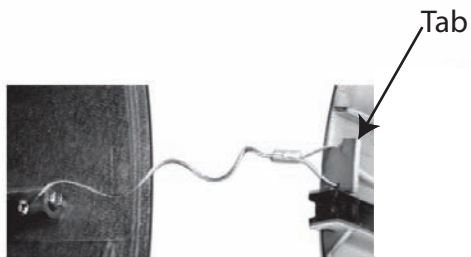
20

		Wire Gauge						
Total vA consumed		,5 22	,75 20	1,0 18	1,5 16	2,5 14	4 12	6 10
5.5	ft	400	600	960	-	-	-	
	m	121	182	292				
10	ft	120	180	300	480	800	1300	-
	m	36.5	54.9	91.4	146	243	396	
20	ft	86	141	225	358	571	905	1440
	m	27.1	43.0	68.6	109	174	275	438
30	ft	65	90	130	225	350	525	830
	m	19.8	27.4	39.6	68.6	106	160	252
40	ft	44	70	112	179	285	452	720
	m	13.4	21.3	34.1	54.6	86.9	138	219
50	ft	35	56	90	143	228	362	576
	m	10.6	17.1	27.4	43.6	69.5	110	175
60	ft	29	47	75	119	190	301	480
	m	9.4	14.3	22.9	36.2	57.9	91.7	146
70	ft	25	40	64	102	163	258	411
	m	8.8	12.2	19.5	31.1	49.7	78.6	125
80	ft	31	34	55	85	140	215	340
	m	7.6	10.3	16.8	25.9	42.7	65.5	103

These are recommended maximum distances for 24VAC with a 10% voltage drop.

- Estos se recomiendan las distancias máximas para 24VAC con una caída de voltaje del 10%.
- Ceux-ci sont recommandés des distances maximum pour 24VAC avec une chute de tension de 10%.
- Diese werden maximale Abstände für 24VAC mit einem 10% Spannungsabfall empfohlen.
- Estes são recomendados distâncias máximas para 24VAC com uma queda de tensão de 10%.
- Questi sono suggeriti distanze massime per 24VAC con una differenza di potenziale di 10%.

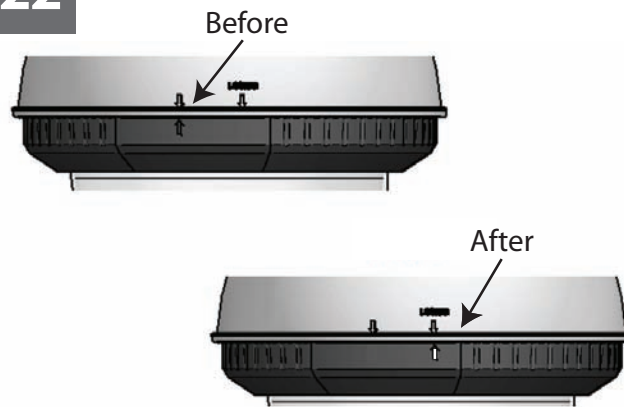
21



Loop the lanyard around the tab inside the housing.

- Coloque el acollador alrededor de la lengüeta dentro de la cubierta.
- Faites une boucle la lanière autour de l'étiquette à l'intérieur du logement.
- Schlingen Sie die Abzuglinie um den Vorsprung innerhalb des Gehäuses.
- Dê laços no colhedor em torno da aba dentro da carcaça.
- Collegghi la cordicella in circuito intorno alla linguetta all'interno dell'alloggiamento.

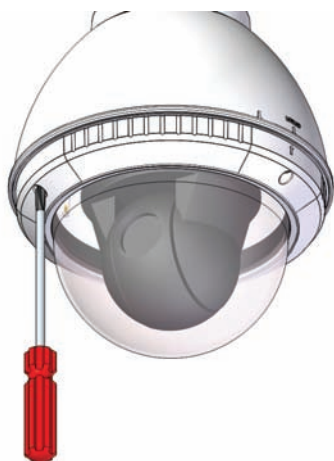
22



Align the arrows on the outside of the dome and lock.

- Alinee las flechas en el exterior de la bóveda y trábese.
- Alignez les flèches sur l'extérieur du dôme et fermez à clef.
- Richten Sie die Pfeile auf der Außenseite der Haube aus und verriegeln Sie sich.
- Alinhe as setas na parte externa da abóbada e trave-as.
- Allinei le frecce sulla parte esterna della cupola e blocchi.

23



Fasten down the dome with a Phillips screwdriver.

- Sujete abajo de la bóveda con un destornillador Phillips.
- Attachez en bas du dôme avec un tournevis Phillips.
- Befestigen Sie sich hinunter die Haube mit einem Kreuzkopfschraubenzieher.
- Prenda abaixo a abóbada com uma chave de fenda Phillips.
- Fissisi giù la cupola con un cacciavite "phillips".

24



Wipe the dome clean. Please follow the proper cleaning procedure as shown.

- Limpie la cúpula limpio. Por favor, siga el procedimiento de limpieza adecuado, como se muestra.
- Essuyez le dôme propre. S'il vous plaît suivre la procédure de nettoyage, comme indiqué dans.
- Wischen Sie die Kuppel reinigen. Bitte beachten Sie die ordnungsgemäße Reinigung Verfahren wie.
- Limpe a cúpula limpo. Por favor, siga o procedimento adequado de limpeza conforme indicado.
- Pulire la cupola pulito. Si prega di seguire la corretta procedura di pulizia, come indicato.

How - to Clean a Dome Bubble

To effectively clean your video surveillance dome bubble (acrylic or polycarbonate) from debris, follow these simple step-by-step instructions.

Materials Needed

- Clean, dry, pressurized air
- Water
- High quality soft paper towel
- Isopropyl alcohol (rubbing alcohol)
- Scratch-resistant cloth

Cleaning Dome Exterior

1. When cleaning exterior of dome, make sure bubble is connected securely to the camera housing.
2. While utilizing a nonabrasive cloth and cleaning agent, safe for use on acrylic or polycarbonate plastic, in a spiral motion, gently clean exterior of bubble.
3. Dry immediately with dry, pressurized air to prevent water spots.

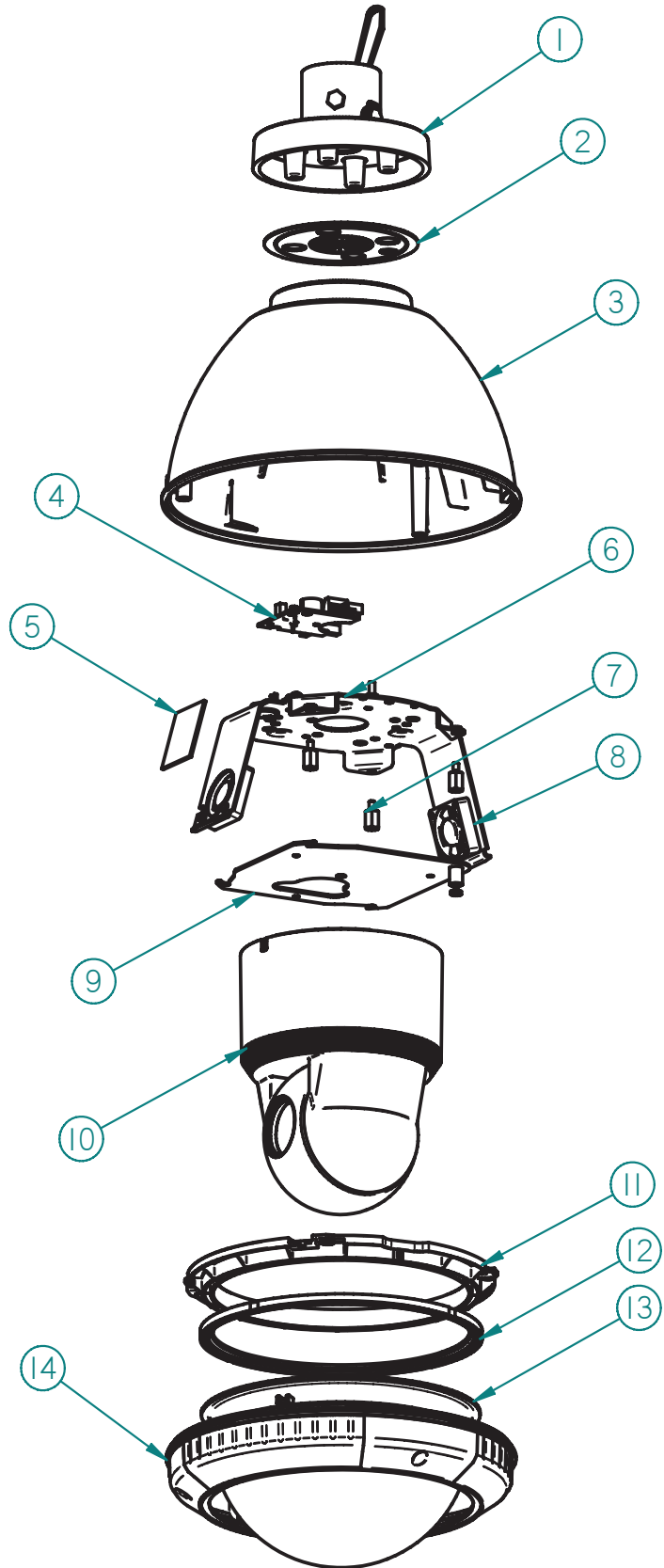
Cleaning Dome Interior

1. Safely remove the dome bubble from the camera housing. To prevent scratches or additional imperfections, utilize a scratch-resistant cloth when handling the bubble.
2. Once removed, carefully place the bubble on a clean surface, safe from dust and any other foreign debris. Do not place the bubble face down on its curved surface.
3. While holding onto the bubble, use clean, dry, pressurized air to gently blow off all loose particles. For more thorough cleaning, try one of the following:
 - i. Rinse bubble with water and immediately dry with pressurized air to prevent water spots
 - ii. Roll a section of high-quality paper towel into a tube, and tear tube in half. Wet torn edge with rubbing alcohol solution (75% alcohol & 25% water). While holding the bubble facing downward, wipe the interior with the paper towel tube in a circular motion from the outside – in. Use spiraling motions when cleaning. Repeat above steps to clean entire bubble.

Replacement Parts List

UNI-ON

Part Number	Description
1 SD0180W	Pendent Coupling (White)
2 RPPD2612	Housing Top Gasket
3 RPPD709	Housing Top
4 RP70FP7PB	Connection PCB
5 RPPD702	24Vac Heater
6 RPPD060	Camera Bracket
7 RPPKH6063	Spacers
8 RPPD080	12Vdc Blower
9 RPL4101	Quick Release Bracket
10 N/A	Camera
11 RPPD703	Clamping Ring
12 RP96GK2558	Dome Gasket
13A RPPD7C	Dome Clear
13B RPPD7T	Dome Tinted
14 RPPKE1110	ELECTRICAL PACKET



SONY® Available Mounting Accessories



UNI-WMB3
Wall Mount
Bracket



UNI-WMB1
Gooseneck
Wall Mount



UNI-RMB1
Aluminum
Parapet Mount



UNI-PMA1
Aluminum Existing
Pole Mount Adaptor



UNI-WMBB1
Pole / Wall Mount



UNI-CMA1
Aluminum Corner
Mount Adaptor



UNI-PBU1
Power Block Unit

UNI-WMB3 Wall Mount Bracket
Mounting Accessories Needed:

- UNI-WMB3 - Wall Mount
- Outdoor Pendant Housing



UNI-WMB1 Wall Mount
Mounting Accessories Needed:

- UNI-WMB1 - Gooseneck Wall Mount
- Outdoor Pendant Housing



UNI-RMB1 RoofMount (Parapet)
Mounting Accessories Needed:

- UNI-RMB1 - Aluminum Parapet Mount
- Outdoor Pendant Housing



UNI-PMA1 Pole Mount
Mounting Accessories Needed:

- UNI-WMB1 or UNI-WMB3 - Gooseneck Wall Mount
- UNI-PMA1 - Aluminum Existing Pole Mount Adaptor
- Outdoor Pendant Housing



UNI-WMBB1 Pole/Wall Mount
Mounting Accessories Needed:

- UNI-WMB1 or UNI-WMB3 - Gooseneck Wall Mount
- UNI-WMBB1 - Pole / Wall Mount
- Outdoor Pendant Housing



UNI-CMA1 Corner Mount
Mounting Accessories Needed:

- UNI-CMA1 - Aluminum Corner Mount Adaptor
- UNI-WMB3 - Gooseneck Wall Mount
- Outdoor Pendant Housing



UNI-PBU1 Power Block Unit (Pole/Wall Mount)
Mounting Accessories Needed:

- UNI-WMB1 - Gooseneck Wall Mount



SONY[®]

Warranty

For warranty information on this and other Sony Security Systems Products, please visit:

<http://pro.sony.com/bbsccms/services/files/servicesprograms/SecurityWarranty.pdf>