Siqura HSD622/626

IP PTZ Camera with Day/Night, WDR, SFP Option

Installation Manual

TKH GROUP

SIQURA®

Note: To ensure proper operation, please read this manual thoroughly before using the product and retain the information for future reference.

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How to contact us

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Contents

1 Introduction

Document scope

This manual applies to Siqura's outdoor high-speed IP PTZ dome cameras, the HSD622/626. It describes how to install and connect the HSD622/626 cameras. Operation and configuration of the HSD622/626 cameras is covered in the user manual.

Intended audience

This manual is aimed at installers and technicians involved in the installation of network devices, such as the HSD622/626.

Assumed skills and know-how

To work with the HSD622/626 camera, an installer or technician must have adequate knowledge and skills in the fields of:

- CCTV systems and components
- Electrical wiring and low-voltage electrical connections
- Ethernet network technologies and Internet Protocol (IP)
- Windows environments
- Web browsers
- Video, audio, data, and contact closure transmissions
- Video compression methods

Specifications

The information given in this manual was current when published. Siqura reserves the right to revise and improve its products. All specifications are subject to change without notice.

Important Information

Before proceeding, please read and observe all instructions and warnings in this manual. Retain this manual with the original bill of sale for future reference and, if necessary, warranty service. When unpacking your product, check for missing or damaged items. If any item is missing, or if damage is evident, *do not install or operate this product.* Contact your supplier for assistance.

Typographical Conventions

Before you start using this guide, it is important to understand the typographical conventions used in the documentation. The following kinds of formatting in the text identify special information.

Formatting convention	Type of Information
Numbered list	Step-by-step procedures. You can follow these instructions to complete a specific task.
Special Bold	Items you must select, such as menu options, command buttons, or items in a list.
Emphasis	Used to emphasize the importance of a point or for variable expressions such as parameters.
CAPITALS	Names of keys on the keyboard. for example, SHIFT, CTRL, or ALT.
KEY+KEY	Key combinations for which the user must press and hold down one key and then press another, for example, CTRL +P, or ALT+F4.

2 Safety

This chapter contains the HSD622/626 safety instructions.

In This Chapter

2.1 Safety Information

General

The safety information contained in this section, and on other pages of this manual, must be observed whenever this unit is operated, serviced, or repaired. Failure to comply with any precaution, warning, or instruction noted in the manual is in violation of the standards of design, manufacture, and intended use of the module. Siqura assumes no liability for the customer's failure to comply with any of these safety requirements.

Trained Personnel

Installation, adjustment, maintenance, and repair of this equipment are to be performed by trained personnel aware of the hazards involved. For correct and safe use of the equipment and in order to keep the equipment in a safe condition, it is essential that both operating and servicing personnel follow standard safety procedures in addition to the safety precautions and warnings specified in this manual, and that this unit be installed in locations accessible to trained service personnel only.

Safety Requirements

The equipment described in this manual has been designed and tested according to the **UL/IEC/EN 60950-1** safety requirements.

Warning: If there is any doubt regarding the safety of the equipment, do not put it into operation.

This might be the case when the equipment shows physical damage or is stressed beyond tolerable limits (for example, during storage and transportation).

Important: Before opening the equipment, disconnect it from all power sources.

The equipment must be powered by a SELV[1] power supply. This is equivalent to a Limited Power source (LPS, see UL/IEC/EN 60950-1 clause 2.5) or a "NEC Class 2" power supply. When this module is operated in extremely elevated temperature conditions, it is possible for internal and external metal surfaces to become extremely hot.

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1. SELV: conforming to IEC 60950-1, <60 Vdc output, output voltage galvanically isolated from mains. All power supplies or power supply cabinets available from Siqura comply with these SELV requirements.

Optical Safety (HSD622/626 /SFP)

This optical equipment contains Class 1M lasers or LEDs and has been designed and tested to meet **IEC 60825-1:1993+A1+A2** and **IEC 60825-2:2004 safety class 1M** requirements.

> **Warning:** Optical equipment presents potential hazards to testing and servicing personnel, owing to high levels of optical radiation.

When using magnifying optical instruments, avoid looking directly into the output of an operating transmitter or into the end of a fiber connected to an operating transmitter, or there will be a risk of permanent eye damage. Precautions should be taken to prevent exposure to optical radiation when the unit is removed from its enclosure or when the fiber is disconnected from the unit. The optical radiation is invisible to the eye.

Use of controls or adjustments or procedures other than those specified herein may result in hazardous radiation exposure.

The installer is responsible for ensuring that the label depicted below (background: yellow; border and text: black) is present in the restricted locations where this equipment is installed.

Hazard Level 1M

EMC

The equipment has been tested and found to meet the CE-regulations relating to EMC, and complies with the limits for a Class B device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against interference to radio communications in any installation. The equipment generates, uses, and can radiate radio frequency energy; improper use or special circumstances may cause interference to other equipment or a performance decrease due to interference radiated by other equipment. In such cases, the user will have to take appropriate measures to reduce such interactions between this and other equipment.

Any interruption of the shielding inside or outside the equipment could make the equipment more prone to fail EMC requirements.

Non-video signal lines must use appropriate shielded Cat 5 cabling (S-FTP), or at least an equivalent. Ensure that *all* electrically connected components are carefully earthed and protected against surges (high voltage transients caused by switching or lightning).

ESD

Electrostatic discharge (ESD) can damage or destroy electronic components. *Proper precautions should be taken against ESD when opening the equipment.*

2.2   Cautions

Handle the camera carefully.

Do not abuse the camera. Avoid striking, shaking, etc. as the camera can be damaged by improper handling or storage.

Install electrical wiring carefully.

Ask a qualified electrician to perform the wiring for the installation. Please note that input electricity to the unit is at a tolerance of 24VAC 50/60 Hz ± 10%. Ground the camera appropriately to prevent electric shock or damage.
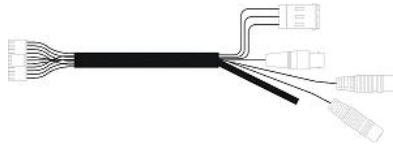
Cable harness   *Power input: 3-pin terminal block*

To prevent electric shock, do not remove screws or covers. There are no user serviceable parts inside. Please consult technical support if a camera is suspected of malfunctioning.

Do not operate the camera beyond the specified temperature, humidity, and power source ratings

Use the indoor camera under conditions where the temperature is between 0°C~40°C (32°F~104°F).

Do not block the cooling vent on indoor cameras.

This camera has a cooling fan inside. Blocking the cooling holes may lead to overheating and cause malfunction. Overheating is not covered by warranty.

Do not expose the indoor dome camera to moisture or operate it in wet areas.

The indoor dome camera is designed for indoor use or use in locations where it is protected from rain and moisture. If the indoor camera gets wet, turn the power off immediately and ask a qualified technician for servicing. Moisture can damage the indoor camera and also create the danger of electric shock.

Do not use strong or abrasive detergents when cleaning the camera.

Use a dry cloth to clean the camera when it is dirty. If the dirt is hard to remove, use a mild detergent and wipe gently. To clean the lens, use lens tissue or a cotton tipped applicator and ethanol. DO NOT clean the lens with strong detergents.

Never face the camera towards the sun.

Do not aim the camera at bright objects. Whether the camera is in use or not, never aim it at the sun or other extremely bright objects, as this can damage the camera.

2.3 Regulations

CE	This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions. • This device may not cause harmful interference. • This device must accept any interference received, including interference that may cause undesired operation.
(crossed-out wheeled bin symbol)	This symbol on the product or on its packaging indicates that this product shall not be treated as household waste in accordance with Directive 2002/96/EC. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By proper waste handling of this product you ensure that it has no negative consequences for the environment and human health, which could otherwise be caused if this product is thrown into the garbage bin. The recycling of materials will help to conserve natural resources. For more information on how to recycle this product, please contact your local city office, your household waste disposal service or the seller of the product.
(green leaf symbol)	Compliance is evidenced by written declaration from our suppliers, assuring that any potential trace contamination levels of restricted substances are below the maximum level set by EU Directive 2002/95/EC, or are exempted due to their application.

3 Product Description

The HSD622/626 high-speed PTZ dome camera is designed to deliver superb performance and durability with an intelligent and stylish housing suitable in any security and surveillance installation.

This manual focuses on the outdoor models in the HSD622/626 series, the HSD622 and HSD626 cameras.

In This Chapter

3.1 Product Overview

Siqura HSD 622 Features

- Outdoor High Speed Network PTZ dome
- Quad stream support: Dual H.264, MPEG-2, MPEG-4 and MJPEG
- 26x Optical Zoom/12x digital zoom
- Day/Night with IR-cut filter
- Back Light Compensation
- Wide Dynamic Range
- 400°/second preset targeting
- 360° endless panning
- 256 presets/8 programmable cruises
- 8 alarm in/1 output
- Two-way audio
- 24 Privacy Masks
- Analog Output
- Optical output option

Siqura HSD 626 Features

- Quad stream support Dual H.264, MPEG-2, MPEG-4 and MJPEG
- 35x Optical Zoom/12x digital zoom
- Day/Night with IR-cut filter
- Wide Dynamic Range
- Back Light Compensation
- Electronic Image Stabilization
- 400°/second Preset targeting
- 360° endless panning
- 256 presets/8 programmable cruises
- 8 alarm in/1 output
- Two-way audio
- 8 Privacy Masks

- Analog Output
- Optical output option

3.2 General Operation Requirements

A minimum of one control device is required for operation, such as a control keyboard, a DVR, or a PC. The HSD622/626 cameras contain a built-in receiver that decodes commands originating from a control device.

The built-in Pelco D protocol provides connectivity to other surveillance systems and allows the HSD622/626 to be integrated with other suppliers' surveillance systems.
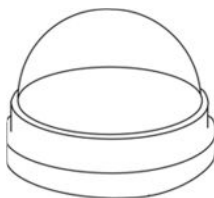
3.3 Package Contents

Before proceeding, please verify that the box contains the items listed here. If any item is missing or has defects, do not install or operate the product. Contact your supplier for assistance.

HSD622/626

Dome Body

Optical cover

CD: Operation and Installation Manuals

M3 standard screw (x1)
M3 security screw (x1)
M5 standard screw (x1)
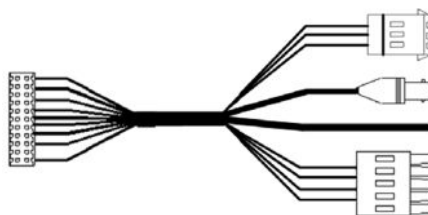*M5 security screw (x1)*

Lubricant

Waterproof Boot

1,

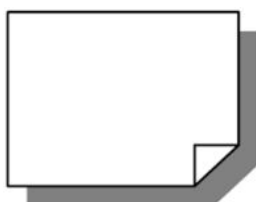
Security TORX

30 cm cable harness for power supply, video, and RS-485

SFP end cap accessory

Quick start guide

4 Dome Setup and Cable Connection

Before installing or connecting the HSD622/626, please refer to this section and complete the preliminary preparations for setting up the dome camera and establishing switch settings.

In This Chapter

4.1 Prepare the HSD622/626 for installation

▸ **To prepare the camera for installation**

1   Unpack the dome package and take out the dome body.
2   Remove the tube adapter by rotating counter clockwise.
3   Rotate to remove the protective cover.
4   Make a note of the IP address on the label attached to the cylindrical heat sink.
5   Remove the PE cloth and take off the lens cap.
6   Generously apply the supplied lubricant to the optical cover's waterproof boot to ensure an IP66 quality installation.
7   Loosen the screw head alignment pins on the dome cover by turning clockwise and line up the alignment pin and screws on the optical cover with the holes in the dome body.
8   Attach the optical cover to the dome body by pressing gently down on the sides of the dome cover.
9   Turn the screw head alignment pins counter-clockwise with a suitable screwdriver to lock the dome into place and secure the dome with the included Phillips-head or TORX screw.

4.2 Switch definition

It is necessary that the dome ID and communication protocol remain in the default modes when connecting the HSD622/626 to other devices. The switches used for configuring these settings are located on the bottom of the dome camera. These settings are preset to operate the camera with the IP hardware. Changing the settings may make the camera inoperative using the IP connection.

Refer to the figure and table below for switch location and definitions.

HSD622/626 switches

Switch	Definition
A	Communication switch
B	ISP connector (for firmware upgrades)
C	RJ-45/SFP connector
D	SD card slot
E	Reset buttons
F	22-pin connector

Note: Switch E has two buttons. Only the button closest to the 22-pin connector is used to restore factory server defaults. The other button is reserved.

▸▸ **To restore factory server defaults**

● Power up the camera while holding button E.
  Continue to hold the button for 30 seconds after powering the camera.

4.3   Communication switch configuration

The communication switch of the HSD622/626 is specified in the table below. The default settings are depicted in the figure. You are advised to verify the accuracy of the communication switch configuration but do not change the default settings, or some functions may not work properly.

Communication switch	Switch	Description
	1	RS-485
	2	
	3	Termination
	4	Line lock
	5	System initialisation. Switch 5 is mainly used to restore the factory defaults of the camera.
	6	Camera upgrade. Users must reset switch 6 after firmware upgrades are carried out.

RS-485 is the interface that enables communication between the HSD622/626 and its control device. This means that the RS-485 setup of the camera and that of the control device must be the same. The RS-485 default setting is half-duplex, as shown in the figure below. Do not change the default setting without consulting a qualified specialist or supplier.

Half duplex   **Full duplex**

RJ-485 settings

4.4   Establishing a Network Connection

To open communication with the HSD622/626 from a host PC and change the unit's network settings, perform the following steps.

Step 1:   Set the PC's network adapter to the unit's factory default subnet and connect the two devices.

Step 2:   Access the unit from a web browser or other tool installed on the PC.

Step 3:   Set the unit's IP address and subnet mask to the subnet it will be used in and reboot the unit.

To address the unit from the same PC again, configure the PC's network adapter once more to assign the PC to the same subnet as the unit.
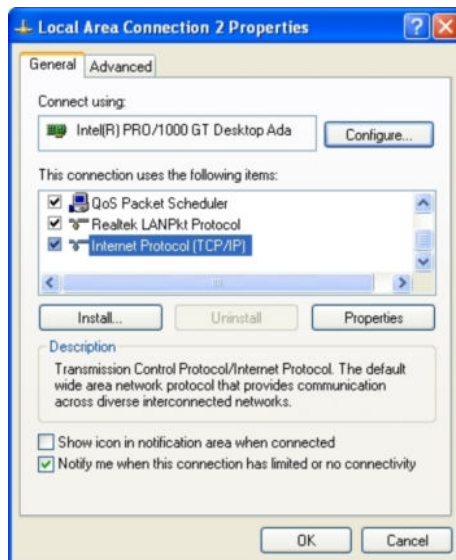
Step 1: Setting the host PC to the factory default subnet of the unit

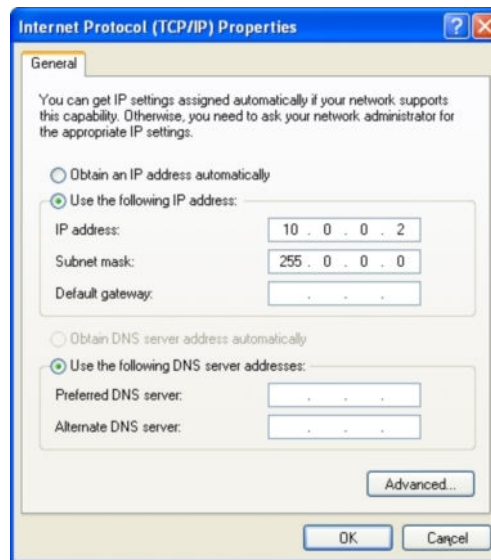**▸▸ To configure the network adapter on the host PC**

1   In the Control Panel, open **Network Connections**.
2   Right-click the connection to be configured, and select **Properties**.
3   In the items list, select **Internet Protocol (TCP/IP)**.
4   Click **Properties**.
5   In the Internet Protocol (TCP/IP) Properties dialog, click **Use the following IP address**.
6   Enter an IP address that will assign your PC to the same subnet as the unit (i.e., within the 10.x.x.x range). Use 255.0.0.0 as a subnet mask.

> **Important:** To prevent conflicts, be sure to choose a unique IP address. No two devices on a network can have the same IP address.

7   To apply the new settings, click **OK**, and then click **Close**.

Opening IP settings on the host PC   *Changing host PC IP settings to the factory-default settings of the unit*

At this point, connect your PC to the HSD622/626. You can connect them directly using a crossover cable, or connect both to a switch.

Step 2: Accessing the unit

Using a standard web browser you can now log on to the HSD622/626's internal web server.

Step 3: Changing the unit's network settings

The Network web page enables you to make the unit's network addressing compatible with the network it will be hooked into. You can set a fixed IP address or have the IP address assigned by a DHCP server. In the latter case, open the Advanced Settings and enable DHCP. Do not forget to save and reboot the unit after changing the settings.

4.5   System compatibility

To ensure system compatibility, download the latest firmware at http://www.siqura.com/.

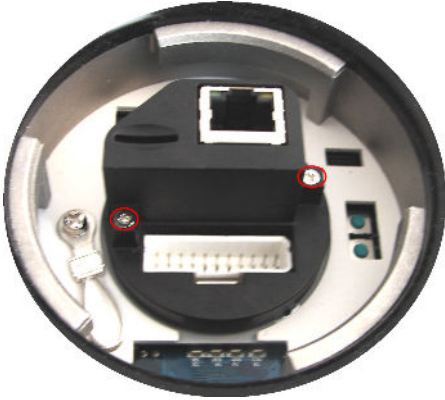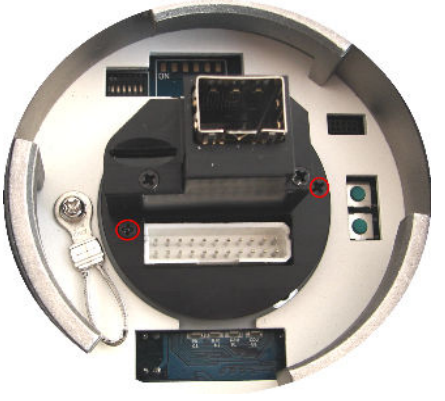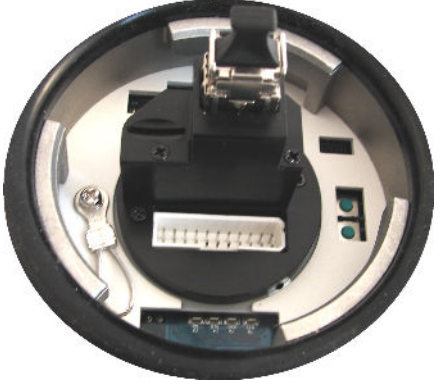# 4.6   RJ-45 to SFP Changeover

To install the SFP interface safely into the HSD622/626 cameras, follow these instructions. For safety information, please refer to the Outdoor IP PTZ dome with D/N and Wide Dynamic Range (Siqura HSD62x Series) Safety Instructions delivered with the camera. Failure to

comply with any precaution, warning, or instruction noted there is in violation of the standards of design, manufacture, and intended use of the module. Siqura assumes no liability for the customer's failure to comply with any of these safety requirements.

➧ **To install the XSNet SFP interface on the HSD622/626 camera**

1   Remove the black mounting screw highlighted below.
2   Align the connector and install the SFP end cap.
3   Replace the mounting screws.
4   Place the colored sticker on the SFP housing as shown in order to align the housing correctly.

1	Unscrew the captive mounting screws and remove the RJ-45 end cap cover.	
1	Align the connector and insert the SFP end cap and screw in the captive mounting screws.	
1	Insert the SFP connector.	

Important: Be sure to follow the HSD62x safety instructions with regards to optical safety and fiber handling precautions.

1	Align the mounting bracket with the 22-pin connector as indicated by the red alignment sticker.	

> **Important:** For SFP installations, align the red arrow on the SFP housing with the mounting bolt that locks the tube adapter to the WM02S wall mount as shown above.

4.7 Dome cable definition and requirements

For operation, the HSD622/626 cameras require either an Ethernet cable or an appropriate fiber optic cable to carry the signals to a remote viewing site and a cable to power the dome.

4.7.1 Cable requirements

For operation, the camera requires a video and cable harness, as described below.

- A cable to provide a 24 Vac power supply to the dome.
- A Cat 5 Ethernet cable.
- Optional audio cables.
- Optional coaxial cable to monitor analogue video.

> **Important:** Make sure that the power supply corresponds with the power requirement of the dome, or damage will occur. If any mistake happens, contact a qualified technician.

4.7.2 Verifying Ethernet connectivity

Refer to the following figure to determine whether you have established an Ethernet connection.
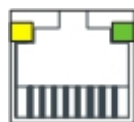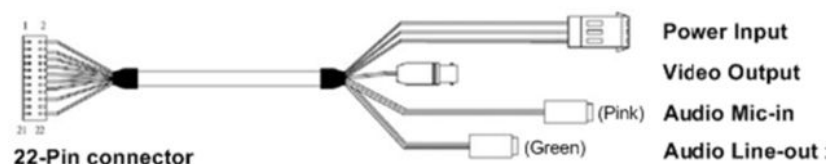

Ethernet socket LEDs green/yellow

Green on/off : 100/10 Mbit

Yellow on/blink : link OK, active

Yellow off/flash : link down, TX attempt

4.7.3 22-pin cable harness

Power Input
Video Output
(Pink) Audio Mic-in
(Green) Audio Line-out

22-Pin connector

The 22-pin cable harness of the HSD622/626

4.7.4 22-pin connector definition

With the 22-pin connector, installers can simply connect the power and video cables to the dome at the same time. The alarm pins are serviceable for connecting alarm input and output devices, such as alarm sensors, sirens, or flashing lights with the surveillance system. For the definition of each pin, see the table below.

22-pin connector

The definitions of each pin are listed in the following table.

| Pin	Definition	Cable	Color	Rating
1	AC 24-1/DC (+)	20/18 AWG	Red	
2	Alarm, normally closed		White	Photo Relay output 300 V
3	AC 24-2/DC (-)	20/18 AWG	Black	
4	Alarm, normally open		White/black	Photo Relay output 300 V
5	FG	20/18 AWG	Yellow	
6	Alarm COM		Green/black	Photo Relay output 300 V
7	Audio in		Yellow/black	
8	Audio out	24 AWG	Orange/black	
9	Audio GND		Green/black	
10	Audio GND		Brown/black	
11	ISOG		Blue/white	
12	Alarm 1		Red/white	
13	Alarm 3		Purple	
14	Alarm 2		Gray	
15	Alarm 4		Blue	Input 5 V 10 KΩ pull up
16	Alarm 5		White/black	Photo Relay output 300 V
17	Alarm 6		Orange/black	
18	Alarm 7		Purple/white	
19	Alarm 8		Gray/black	
20	Alarm GND		Brown/white	Input 5V 10 KΩ pull up
21	Video GND	20 AWG	Black/gray	
22	Video		Red/gray	

5   Dome Installation

Based on the installation environment, the HSD622/626 camera can be installed using a ceiling, wall, corner, or pole mount. In the following sections, various installation methods and installation procedures are described in detail.

In This Chapter

5.1   Dome Dimensions

The HSD622/626 dome dimensions are 133 x 173 mm (5.2 x 6.8 in.). The diagrams below show detailed dimensions for dome's different parts.
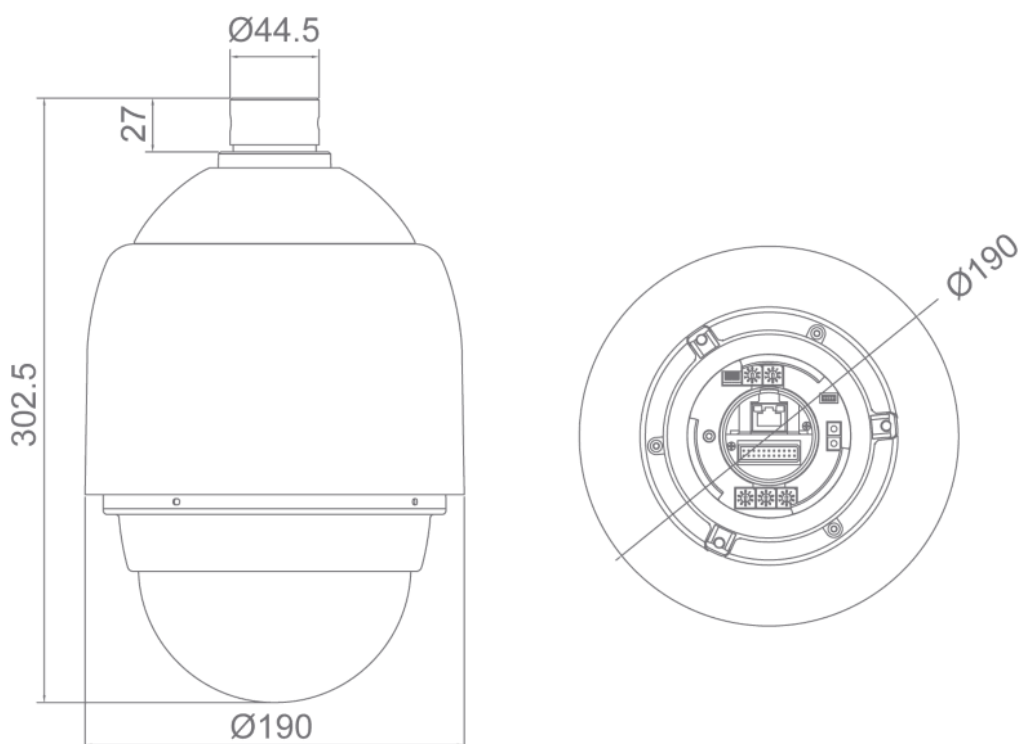
HSD622/626 dimensions

5.2 Installation Scenarios

Choose your installation scenario from the list below for complete instructions for performing that installation.

Important: Whatever your scenario, always use the safety line when attaching the dome.

Ceiling mounts

- Ceiling mounting with a straight tube

Wall mounts

- Mini wall mount
- Wall mounting with gooseneck tube
- Wall box mounting

Corner mounts

- Corner Mount

Pole mounts

- Pole thin/wide direct mounting
- Pole thin/wide box mounting

For descriptions of the various accessories required for each installation, see Appendix A: Camera Accessories.

Note: Some illustrations in this section use the term "plane washer". This is also known as a flat washer.

Warning: Fully torque down the mounting bolt that attaches the WM02 tube adapter to the mounting bracket to prevent any movement of the camera due to wind, vibration, etc.

Make sure the camera cannot move at all in its bracket after installation. Any movement of the camera in its bracket can compromise positional accuracy.
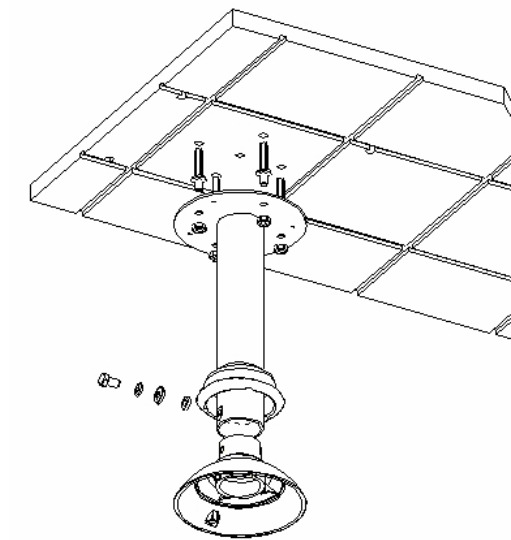
5.3 Ceiling Mount

There is one ceiling mounting option for the HSD622/626 outdoor dome cameras:

- Ceiling mounting with a straight tube

5.3.1 Ceiling mounting with a straight tube

The only ceiling mount for the HSD622/626 outdoor dome camera is the straight tube mount.

Ceiling Mount: straight tube + waterproof boot

The straight tube is available in lengths of 25 cm and 30 cm.

Items needed

- Dome camera
- Straight tube and other equipped items (optional accessory)
- Screws and screw anchors for fixing the straight tube onto the ceiling (not supplied)

Tools needed

- Drill
- Screwdriver

↠ To mount the dome with a straight tube

1. Ensure that the ceiling can support the weight of the dome camera and straight tube.
2. Make a cable entry hole in the ceiling. Otherwise, cables can be threaded through the cable entry hole on the tube.
3. Attach the waterproof boot to the straight tube.
4. Fix the straight tube to the ceiling with proper screws and screw anchors (not supplied).
5. Thread the cables through the straight tube and the outdoor tube adaptor.

> **Note:** After threading the cables, block the cable entry hole with the supplied sponge(s) to prevent insects from entering the tube.

6. Fix the outdoor tube adaptor to the straight tube with the supplied screws and washers. Then adjust the waterproof boot to the junction of the straight tube and the outdoor tube adaptor.
7. Connect the cables to the dome camera. Then attach the dome to the outdoor tube adaptor and fix them with the supplied screw.

5.4 Wall mount

There are three types of wall mounts for the HSD622/626 dome camera.

- Mounting with a mini wall mount, as shown in the section Mini wall mount.

- Mounting with a gooseneck tube, as shown in the section Wall mounting with gooseneck tube.
- Mounting with a wall box, as shown in the section Wall box mounting.

⚠	**Warning:** Fully torque down the mounting bolt that attaches the WM02 tube adapter to the mounting bracket to prevent any movement of the camera due to wind, vibration, etc.
	Make sure the camera cannot move at all in its bracket after installation. Any movement of the camera in its bracket can compromise positional accuracy.

5.4.1   Mini wall mount

Items needed

- Dome camera
- Mini wall mount and other equipped items (optional accessory)
- Screws and screw anchors (not supplied)
- Indoor tube adapter for the HSD622/626 (optional accessory)
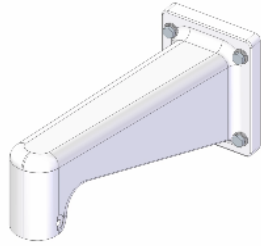- Waterproof boot (supplied with the indoor tube adapter)
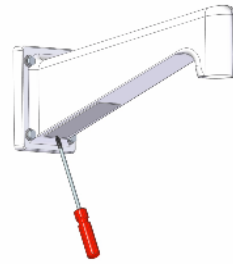
Tools needed

- Drill
- Screwdriver

➡ To mount the dome with the mini wall mount

1   Make a cable entry hole in the wall to recess the cables.
   Otherwise, cables can be threaded through the cable entry hole on the mount.
2   Thread the cables through the mini wall mount and out through either the cable entry hole in the wall or the hole in the mini wall mount.
3   Fix the wall mount to the wall with proper screws and screw anchors.
4   Attach the waterproof boot to the mini wall mount.
5   Thread the cables through the tube adapter and lock it to the mini wall mount with the supplied screws and washers.
   At this point, the dome can be suspended from the mini wall mount using the safety wire.
6   Block the mount's cable entry hole.
   If the cable is threaded into the wall, block the hole in the mount with the supplied plate.
   If the cable is threaded through the neck of the wall mount, block the cable entry hole with the supplied sponge(s) to prevent insects from entering the tube.
7   Attach the lock screw plate to the dome plate with the supplied screw, as depicted in the section Ceiling mounting with a straight tube.
8   Adjust the waterproof boot to the junction of the mini wall mount and the indoor tube adapter.
9   Connect the cables to the dome camera. Then attach the dome to the indoor tube adapter and fasten them together with the supplied screw.
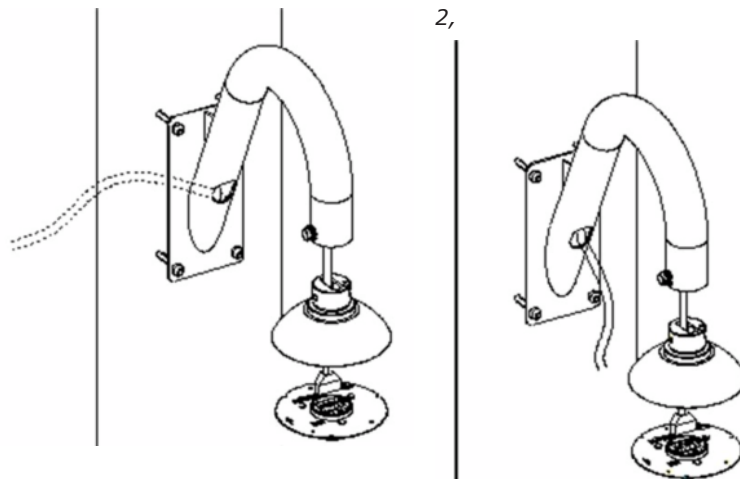
Mini wall mount   *Mini wall mount with secured cable entry plate*

5.4.2   Wall mounting with gooseneck tube

The following figure shows how cables run through the tube.

Gooseneck with recessed (left) and exposed (right) cabling

Items needed

- Dome camera
- Gooseneck tube and other equipped items (optional accessory)
- Waterproof boot (standard accessory with the indoor tube adapter)
- Screws and screw anchors (not supplied)
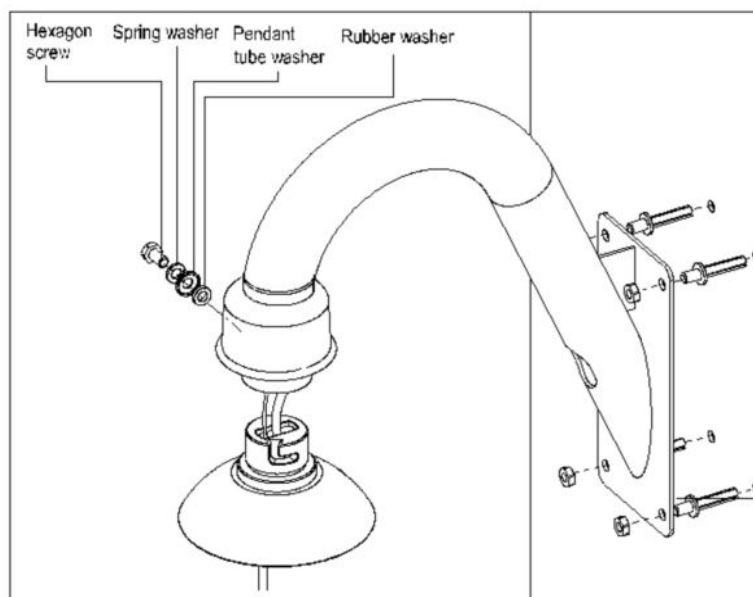- Indoor tube adapter for the HSD622/626 (optional accessory)

Tools needed

- Drill
- Screwdriver

▸▸ To mount the dome with the gooseneck tube

1   Make a cable entry hole in the wall to recess the cables. Otherwise, cables can be threaded through the cable entry hole on the mount.
2   Thread the cables through the mini wall mount and out through either the cable entry hole in the wall or the hole in the mini wall mount.
3   Fix the gooseneck tube to the wall with proper screws and screw anchors.

4   Attach the waterproof boot to the gooseneck tube.

5   Thread the cables through the gooseneck tube and the tube adapter and lock it to the mini wall mount with the supplied screws and washers.

At this point, the dome can be suspended from the mini wall mount using the safety wire.

6   Block the mount's cable entry hole with the supplied sponge(s) to prevent insects from entering the tube.

7   Attach the lock screw plate to the back of the dome with supplied screw, as depicted in the section Ceiling mounting with a straight tube.

8   Adjust the waterproof boot to the junction of the gooseneck tube and the tube adapter.

9   Connect the cables to the dome camera, attach the dome to the indoor tube adapter, and fasten them together with the supplied screw.

Wall mounting: gooseneck tube + indoor tube adapter + waterproof boot

5.4.3   Wall box mounting

Items needed

● Dome camera
● Wall box mount and other equipped items (optional accessory)
● Gooseneck tube (optional accessory)
● Screws and screw anchors (not supplied)
● Indoor tube adapter for the HSD622/626 (optional accessory)
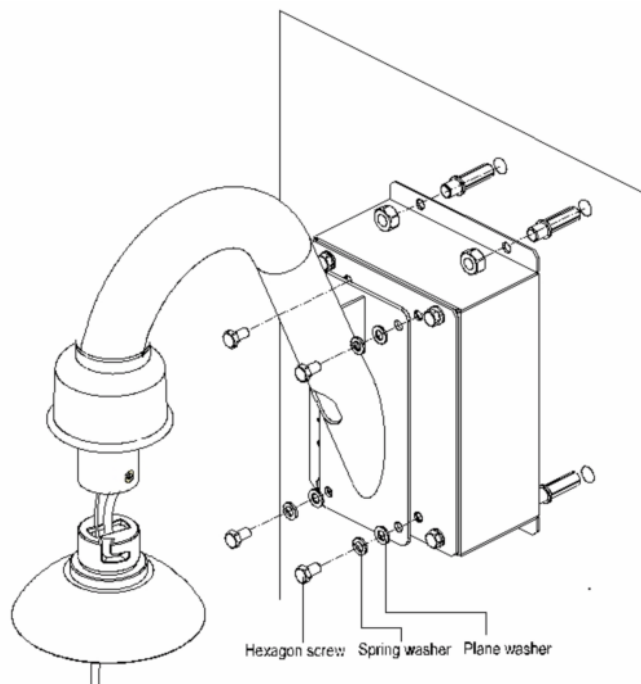● Waterproof boot (supplied with the indoor tube adapter)

Tools needed

● Drill
● Screwdriver

⁍ To mount the dome with the gooseneck tube and wall box

1   Fix the wall box to the wall with proper screws and screw anchors.

2   Fasten the gooseneck tube to the wall box with the supplied screws and washers.

3   Attach the waterproof boot to the gooseneck tube.

4   Thread the cables through the gooseneck tube and the tube adapter.

    After threading the cables, block the cable entry hole with the supplied sponge(s) to prevent insects from entering the tube.

5   Attach the lock screw plate to the back of the dome with the supplied screw, as depicted in the section Ceiling mounting with a straight tube.

6   Adjust the waterproof boot to the junction of the gooseneck tube and the indoor tube adapter.

7   Connect the cables to the dome camera. Then attach the dome to the indoor tube adapter and fasten them together with the supplied screw.

Wall box mounting: wall box mount + gooseneck tube + waterproof boot + indoor tube adapter

5.5   Corner mount

With the corner standard mounting plate and gooseneck tube/mini wall mount, the HSD622/626 can be mounted onto the corner or a wall.

Items needed

- Dome camera
- Gooseneck tube/mini wall mount and other equipped items (optional accessory)
- Corner standard mounting plate (optional accessory)
- Indoor tube adapter for the HSD622/626 (optional accessory)
- Waterproof boot (supplied with the indoor tube adapter)
- Screws and screw anchors for fixing the corner standard mounting plate (not supplied)

Tools needed

- Drill
- Screwdriver

➡ To mount the dome camera with the corner standard mounting plate and gooseneck tube/mini wall mount

1   Make a cable entry hole on the wall to recess the cables.

    Otherwise, cables can be threaded through the cable entry hole on the tube.

2   Fix the corner standard mounting plate on a corner with the proper screws and screw anchors.

3   Attach the gooseneck tube/mini wall mount to the fixed mounting plate with the supplied screws and washers.

4   Attach the waterproof boot to the gooseneck tube/mini wall mount.

5   Attach the indoor tube adapter to the gooseneck tube/mini wall mount.

6   Thread the cables through the gooseneck tube/mini wall mount and the indoor tube adapter.

> **Note:** After threading the cables, block the cable entry hole with the supplied sponge(s) to prevent insects from entering the tube.

7   Attach the fixing plate to the back of the dome with the supplied screw.

8   Adjust the waterproof boot to the junction of the gooseneck tube and the indoor tube adapter.

9   Connect the cables to the dome camera. Then attach the dome to the indoor tube adapter and fasten them together with the supplied screw.
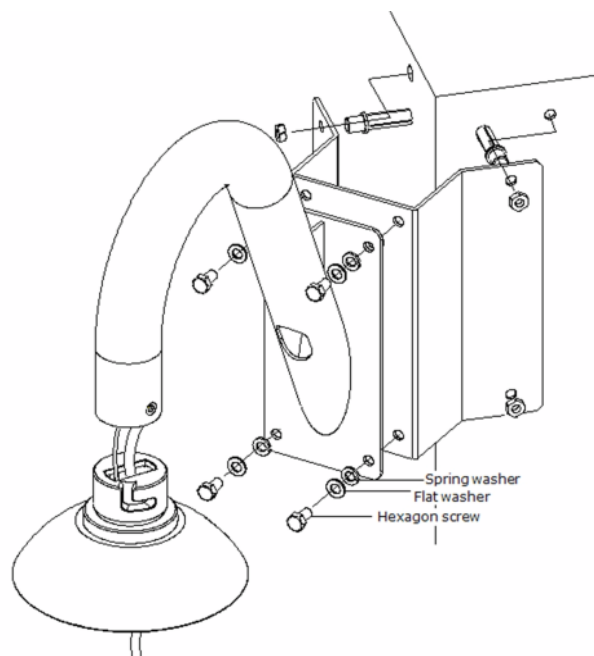
Corner wall mounting: corner standard mounting plate + gooseneck tube/ mini wall mount + indoor tube adapter + waterproof boot

5.6 Pole mount

There are two ways to mount the HSD622/626 cameras on a pole:

- Using a thin/wide direct mount as described in the section Pole thin/wide direct mounting.
- Using a thin/wide box mount as described in the section Pole thin/wide box mounting.

5.6.1 Pole thin/wide direct mounting

The dome can be installed to a pole with a thin/wide direct mounting accessory and a gooseneck tube.
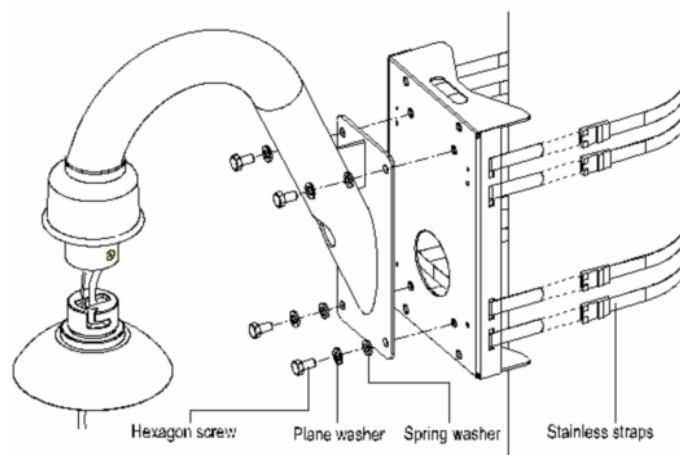
Items needed

- Dome camera
- Gooseneck tube and other equipped items (optional accessory)
- Indoor tube adapter for the HSD622/626 (optional accessory)
- Waterproof boot (supplied with the indoor tube adapter)
- Pole thin direct mounting (optional accessory)
- Stainless steel straps (optional accessory)

Tools needed

- Stainless strap cutter (optional accessory)
- Screwdriver

» To mount the dome camera with the pole thin direct mounting and gooseneck

1 Fasten the pole thin direct mounting to a pole with the supplied stainless steel straps.
2 Fix the gooseneck tube to the pole direct mounting with the supplied screws and washers.
3 Attach the waterproof boot to the gooseneck tube.
4 Thread the cables through the gooseneck tube and the tube adapter.

   After threading the cables, block the cable entry hole with the supplied sponge(s) to prevent insects from entering the tube.
5 Attach the lock screw plate to the back of the dome with the supplied screw, as depicted in the section Ceiling mounting with a straight tube.
6 Adjust the waterproof boot to the junction of the gooseneck tube and the indoor tube adapter.
7 Connect the cables to the dome camera. Then attach the dome to the tube adapter and fasten them together with the supplied screw.

Pole direct mounting: pole thin direct mounting + gooseneck tube + indoor tube adapter + waterproof boot

5.6.2 Pole thin/wide box mounting

Items needed

- Dome camera
- Gooseneck tube and other equipped items (optional accessory)
- Indoor tube adapter for the HSD622/626 (optional accessory)
- Waterproof boot (supplied with the indoor tube adapter)
- Pole wide box (optional accessory)
- Stainless steel straps (optional accessory)

Tools needed

- Stainless strap cutter
- Screwdriver

⇥ To mount the dome camera with the pole box and gooseneck tube

1   Fasten the pole wide box on a pole with equipped stainless steel straps.

2   Fix the gooseneck tube to the pole box with the supplied screws and washers.

3   Attach the waterproof boot to the gooseneck tube.

4   Thread the cables through the gooseneck tube and the tube adapter.

> **Note:** After threading the cables, block the cable entry hole with the supplied sponge(s) to prevent insects from entering the tube.

5   Attach the lock screw plate to the back of the dome with the supplied screw, as depicted in the section Ceiling mounting with a straight tube.

6   Adjust the waterproof boot to the junction of the gooseneck tube and the tube adapter.

7   Connect the cables to the dome camera, attach the dome to the tube adapter, and fasten them together with the supplied screw.
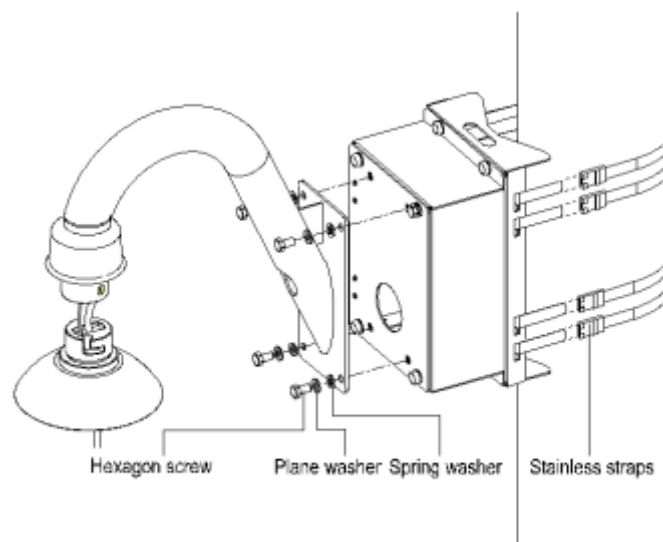
*Pole box mounting: pole wide box + gooseneck tube + indoor tube
adapter + waterproof boot*

6   System Integration

The HSD622/626 dome camera can be integrated into other suppliers' surveillance systems in two ways:

- Via the Open Streaming Architecture (OSA) application programming interface (API). For more information see the *Siqura PTZ Camera Codec Programming Interface - Interface Specification* or contact your supplier for details.

- Via serial tunneling using the Pelco D protocol. For Pelco D, set both the UART gap timeout and the UART max latency to 7. This ensures efficient and accurate transmission of the commands. Other serial servers will likely use different terms for these settings. The HSD622/626's default baud rate is set to 9600. Ensure that your control keyboard uses a compatible baud rate. The factory set ID number is 1 and you must not change this setting. For applications that require a unique RS-485 ID, please contact Siqura for assistance.

Note: Ensure that the configuration is correct when using a serial server device, such as an Siqura S-44 D data port, to send PTZ commands via a network.

Appendix A: Camera Accessories

Before installing the camera, compare your accessories to those listed in this section and ensure that you have all the parts you need for your installation.

Important: If anything is missing, do not install the dome. Contact your supplier for assistance.

In This Chapter

Mounting Accessories

All mounting accessories are optional. To secure the camera to the tube or wall mount, all tube mounts and the mini wall mount are supplied with the following.

- Cup washer (1)
- 8 mm Spring washer (1)
- 8 mm Rubber gasket (1)
- M8*12 Screw (1)
- Waterproof boot (1)

WM03A / Gooseneck Tube

White Color; Iron, 298×385 mm (11.73×15.56 in.); 2.1 kg (4.6 lbs). (Gasket plate and cable gland for IP66 rated installations included)

WM01A / Mini Wall Mount

White; 184×104×115.2 mm (7.24×4.09×4.54 in.); 0.6 kg (1.2 lbs). (Gasket plate and cable gland for IP66 rated installations included)

PM05 / Swan-neck Mount

White, Iron, Height: 250/500 mm (9.8/19.7 in.), Diameter: 50 mm (2 in.)

1 kg (2.2 lbs) / 1.8 kg (4 lbs).

CM01 (250 mm) / CM02 (500 mm) / Straight Tube

White, Iron, Height: 250/500 mm (9.8/19.7 in.), Diameter: 50 mm (2 in.)

1 kg (2.2 lbs) / 1.8 kg (4 lbs).
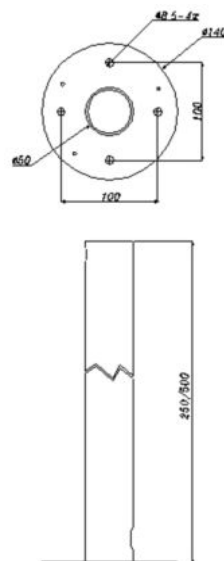
WM05 / Corner Standard Mounting Plate

White, 222×204×117 mm (8.7×8×4.6 in.); 2 kg (4.4 lbs); Supplied with 8 mm washer ×4, spring washer×4, M8*16 screw×4, M8 nut×4.
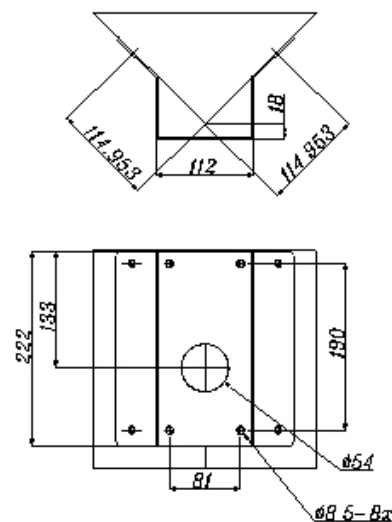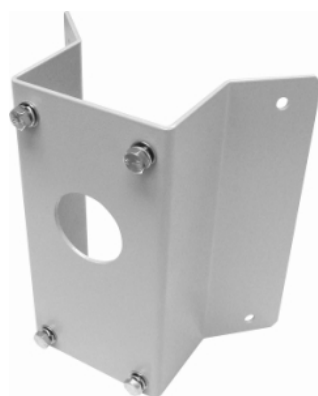
PM04 / Pole Wide Box

White/Ivory, 270×166×155 mm
(10.6×6.5×6.1 in.); 3.2 kg (7.1 lbs);
Supplied with M8*16 screw×4, washer×4,
spring washer×4, stainless steel straps×4.
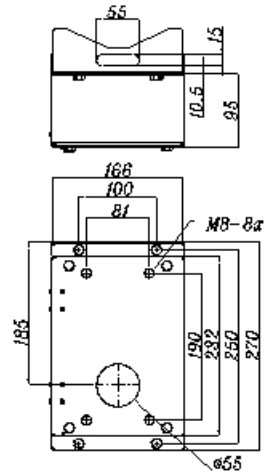
WM06 / Wall Box Mounting

Ivory, 270(L)×166(W)×95(D)
(10.6×6.5×3.7 in.); 2.2 kg (4.84 lbs);
Supplied with M8*16 screw×4, washer×4,
spring washer×4
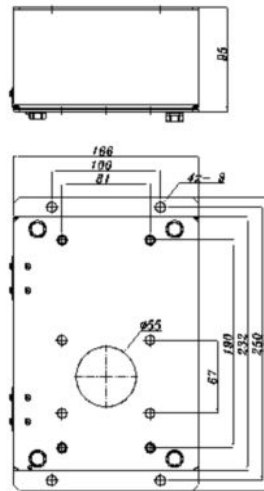
PM01 / Pole Thin Direct Mounting

White/Ivory, 232×136×60 mm
(9.1×5.4×2.4 in.); Diameter: 112~140 mm
(4.4~5.5 in.); 0.7 kg (1.6 lbs); Supplied
with stainless steel straps×4, M8*16
screw×4, washer×4.
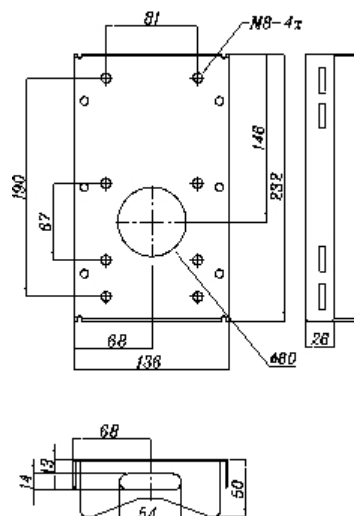
PM02 / Pole Wide Direct Mounting

White/Ivory, 270×170×60 mm
(10.6×6.7×2.4 in.); Diameter: 112~130
mm (4.4~5 in.); 1 kg (2.2 lbs); Supplied
with stainless steel straps×4, M8*16
screw×4, washer×4.
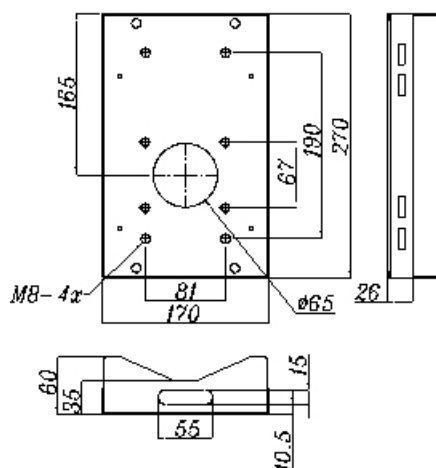
ST01 / Stainless Steel Straps

For fixing Pole Direct Mounting/ Pole Box on the pole.
Length: 700 mm (27.5 in.); Width: 0.63"; 0.02 kg (0.04 lbs)

ST02 / Stainless Strap Cutter

For tension, cut and crimp stainless steel straps. 1.4 kg (3.1 lbs)
Suitable for straps width: 1/2", 5/8", 3/4"

HSD622/626 Accessories

	DC02 Transparent Vandal-Proof Cover or **DC12 Smoke Cover** Diameter: 137 mm (5.4 in.);
	PA02 Power Adapter (optional) ● Input: 100~115VAC/Output: 24VAC 72VA (US) OR ● Input: 220~230VAC/Output: 24VAC 72VA (EU/UK) **Note:** When wiring, make sure the G/Y wire (Ground) is inserted into the mid-pin of the terminal block
	PA03 Power Adapter (optional) ● Input: 110~115VAC/Output: 24VAC 72VA (US) OR ● Input: 220~230VAC/Output: 24VAC 72VA (EU/UK) **Note:** When wiring, make sure the G/Y wire (Ground) is inserted into the mid-pin of the terminal block

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