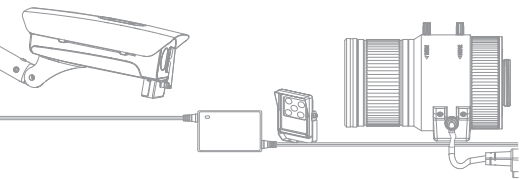


# Light-duty Protective Housing

1.2.51.32.12942-000

User's Manual  
V1.0.2



— Zhejiang Dahua Vision Technology Co., LTD. —

## Preface

### Overview

This document mainly introduces installation of light-duty protective housing.

### Symbol Definition

The following symbols may appear in the document. Please refer to the table below for the respective definition.

Symbol	Note
	It indicates a moderate or low level of potential danger which, if not avoided, could result in minor or moderate injury.
	It indicates a potential risk that, if ignored, could result in damage to device, loss of data, degraded performance, or unpredictable results.
	It means the additional information, which is to emphasize or supplement.

### Important Safeguards and Warnings

The following description is the correct application method of the device. Please read the manual carefully before use, in order to prevent danger and property loss. Strictly conform to the manual during application and keep it properly after reading.

#### Caution

- Please install it at stable places, and prevent it from falling.
- Use the device only within rated input and output range.
- Please don't dismantle the device arbitrarily.

#### Warning

- The product shall use electric wires (power wires) recommended by this area, which shall be used within its rated specification.
- Please use power supply that meets SELV (safely extra low voltage) requirements, and supply power with rated voltage that conforms to Limited Power Source in IEC60950-1. For specific power supply requirements, please refer to device labels.
- If power plug or appliance coupler is a disconnecting device, please ensure its convenient operation.

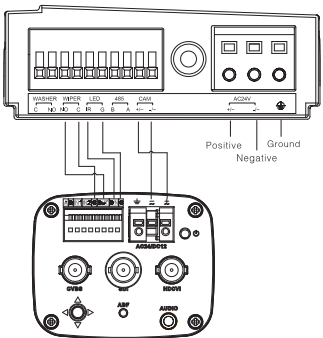


Figure 2-6 Wiring Diagram of CVI Interface (Routine Mode)

Position	Interface	Instruction
Interface board	AC24V	Power input interface, to connect external power.
	CAM	Power output interface, consistent with external power supply, to supply power to the camera.
	485 (A/B)	In remote mode 1, this is LED and wiper control interface. In remote mode 2 and routine mode, it is ok if this interface is not connected.
	LED (IR/G) (D/N/G)	This is illumination signal terminal of IR lamp. It only applies to products with IR lamp.
	WIPER (NO/C) (OUT/G)	In remote mode 1, it is ok if this interface is not connected. In remote mode 2 and routine mode, this is wiper control interface, to connect normally-on alarm output terminal of the camera.
IR driving board	WASHER(NO/C) (OUT/G)	In remote mode 1, this is external washer interface. In remote mode 2 and routine mode, it is ok if this interface is not connected.
	NO/C	In remote mode 1, it is ok if this interface is not connected. In remote mode 2, this is IR control interface, to connect normally-on alarm output terminal of the camera. In routine mode, it is ok if this interface is not connected.

Table 2-3

### 2.3 Install Camera

- Step 1 Take camera installation plate out of the housing.
- Step 2 Fix the camera onto camera installation plate.
- Step 3 Fix camera installation plate onto housing shell, as shown in Figure 2-7.

#### Note

- During installation of camera lens, try to get close to inner surface of glass (1-3mm away from the inner surface), so as not to affect viewing angle of the lens.
- According to camera size, camera installation plate can be installed at obverse side and reverse side.

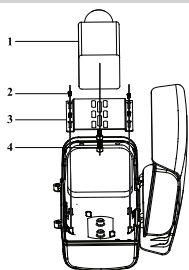


Figure 2-7

## About this Document

- This document is for reference only. Please refer to the actual product for more details.
- This document serves as a reference for multiple types of products, whose specific operations won't be enumerated. Please operate according to actual products.
- The user shall undertake any losses resulting from violation of guidance in the document.
- In case that PDF document cannot be opened, please upgrade the reading tool to the latest version or use other mainstream reading tools.
- This company reserves rights to revise any information in the document anytime; and the revised contents will be added to the new version without prior announcement. Some functions of the products may be slightly different before and after revision.
- The document may include technically inaccurate contents, inconsistencies with product functions and operations, or misprint. Final explanations of the company shall prevail.

## 1 Product Overview

Light-duty protective housing provides all-weather protection for cameras and lens, and ensures their normal work in severe environment such as high temperature, low temperature, rain and snow. Support to install cameras and lens of various sizes; boast a built-in adjustable camera fixing plate and relatively high protection level. It is hereinafter referred to as "housing".

### 1.1 Product Feature

- Brand-new side cover design facilitates device installation and debugging.
- Aluminium shell owns fully sealed design and reaches IP66/IP67 protection level.
- Built-in heating and cooling system guarantees stable operation.
- Windows adopt waterproof films, so as to reduce the effect of weather on the camera.
- 1 ~ 100m infrared ray provides auxiliary ray of light.
- Support remote control of LED and windshield wiper.

### 1.2 Product Size

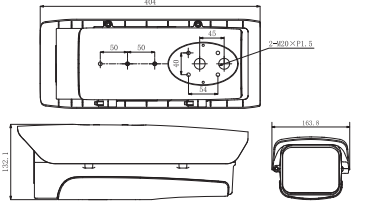


Figure 1-1 DH-PFH610N and DH-PFH610N-H (unit: mm)

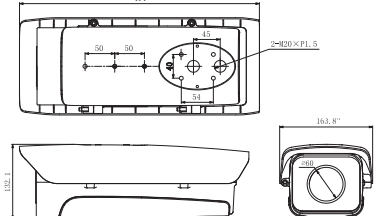


Figure 1-2 DH-PFH610N-IR/LED, DH-PFH610A-IR, DH-PFH610A and DH-PFH610A-H (unit: mm)

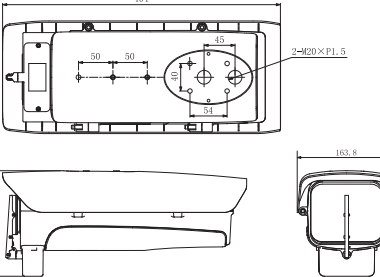


Figure 1-3 DH-PFH610N-W and DH-PFH610N-IR-W (unit: mm)

No.	Component Name
1	Camera
2	Screws to fix camera installation plate (M3 x 8 combination screws)
3	Camera installation plate
4	Screws to fix camera (1/4-20 x 8UNC pan head combination screw)

Table 2-4

### 2.4 Operating Control Instruction

IR lamp panel owns dial switch; 6 IR lamps are turned on by default. Except remote mode 1, in the other two modes, dial switch can be turned to 1 or 2, so corresponding IR lamp can be turned off (at most 4 lamps can be turned off), in order to meet short-distance fill-in light requirement.

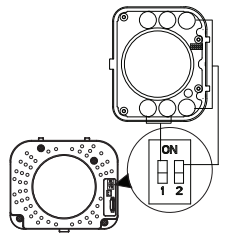


Figure 2-8

## 3 Installation Guide of Bracket

### 3.1 Install General Bracket

Protective housing can be installed with a bracket, which owns general threaded holes. Threaded holes (M6) of general bracket on protective housing are shown in Figure 3-1.

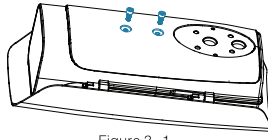


Figure 3-1

### 3.2 Install Special Bracket

Special bracket means integration of housing and bracket, and thus supports concealed wiring.

Step 1 Wiring harness goes through the bracket, as shown in Figure 3-2.

Step 2 Fasten the bracket onto protective housing, as shown in Figure 3-3.

Step 3 Put a waterproof joint onto wiring harness, and tighten the waterproof joint, as shown in Figure 3-4.

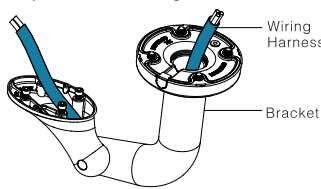


Figure 3-2

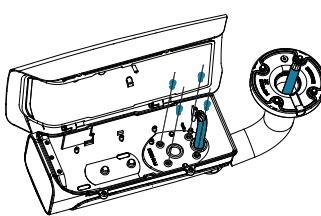


Figure 3-3

## 2 Installation Guide of Housing

### 2.1 Open and Lock the Housing

Open or lock the housing with two M6 screws at the side and internal hexagonal wrench (5.0mm).

#### Caution

Before closing the cover, please inspect whether waterproof ring of the shell is correctly installed in place, as shown in Figure 2-1. Otherwise, waterproof performance of the housing may be affected.

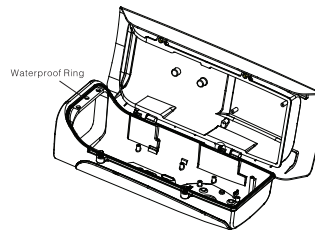


Figure 2-1

### 2.2 Control and Wiring Instruction

With LED/wiper module, there are 3 control modes as shown in Table 2-1 and Table 2-2.

Mode	Applicable IPC Camera Type	Wiring Instruction
Remote 1	Camera with RS485 control function.	Control LED and wiper status at WEB interface. Specific wiring of IPC is shown in Figure 2-2.
Remote 2	Camera without RS485 control function; "N/C" interface of the camera satisfies "LED" and "WIPER" connection.	Control LED and wiper switch through camera alarm option. Specific wiring is shown in Figure 2-3.
Routine	Camera without RS485 control function; "N/C" interface of the camera cannot satisfy "LED" and "WIPER" connection at the same time.	Control wiper switch through camera alarm, and control LED switch through LED photosensitive unit. Specific wiring of IPC is shown in Figure 2-4.

Table 2-1

Mode	Applicable CVI Camera Type	Wiring Instruction
Remote	Camera with RS485 control function.	Control LED and wiper status at WEB interface. Specific wiring is shown in Figure 2-5.
Routine	Camera without RS485 control function.	Control wiper switch through camera alarm, and control LED switch through LED photosensitive unit. Specific wiring is shown in Figure 2-6.

Table 2-2

#### Note

- Camera with RS485 control function means that "Peripheral Management" menu at WEB interface has "External Light Setting" and "Wiper Setting".
- Choose corresponding control mode according to different camera types.
- "N/C", "NO/C" and "OUT/G" interfaces of the camera have the same functions. Different types of devices display in a different way.
- Regarding a camera with RS485 control function, "PTZ Setting" shall be adjusted to "Default" status.
- Protective housing of white light doesn't support remote mode 2.

#### Caution

Please don't connect NO/C or OUT/G interface with IR/G interface, or the IR light will be damaged.

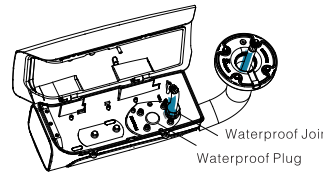


Figure 3-4

#### Caution

During wiring, it is suggested that wiring harness should divide into signal harness and power harness, go out of two holes respectively and connect waterproof joints. If all wires goes out of one hole and connect waterproof joint, it is suggested that the other hole should be covered with waterproof plug, in order to prevent water leakage.

### 3.3 Bracket Model

#### Note

- The bracket is not included in basic configuration of the housing. Please buy it if it is needed.
- Anti-corrosion protective housing shall be matched with specific anti-corrosion bracket.

Please refer to Table 3-1 for bracket models corresponding to all installation and hanging modes.

Hanging Mode	Schematic Diagram	Bracket Model
Ceiling installation		DH-PFB600W
Wall installation		DH-PFB604W
Plane installation		DH-PFA162
Cross-bar installation		DH-PFA150+ DH-PFA162
Vertical installation 1		DH-PFB601W
Vertical installation 2		DH-PFB601W+ DH-PFA112 (200mm) or DH-PFA113 (400mm)

Table 3-1

### Technical Specification

Product Model	DH-PFH610N	DH-PFH610A	DH-PFH610N-H	DH-PFH610A-H
Product Size (L x W x H)	404mm x 164mm x 132mm			
Max. Size of Camera (L x W x H)	255mm x 90mm x 83mm		255mm x 90mm x 70.5mm or 215mm x 90mm x 83mm	
Window Area	100mm x 80mm	Φ60mm	100mm x 80mm	Φ60mm
Weight	2.5kg		2.7kg	
Material	AL + PC			
Protection Level	IP67			
Installation Environment	Indoor/outdoor			
Working Temperature	-30°C ~ +60°C		-40°C ~ +60°C	

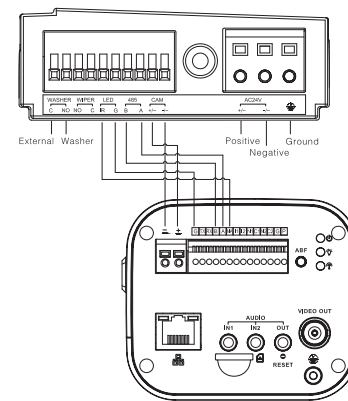


Figure 2-2 Wiring Diagram of IPC Interface (Remote Mode 1)

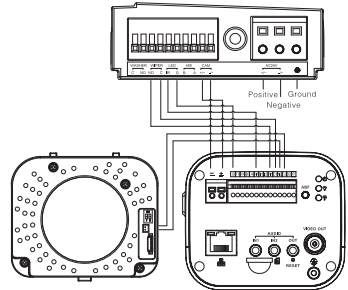


Figure 2-3 Wiring Diagram of IPC Interface (Remote Mode 2)

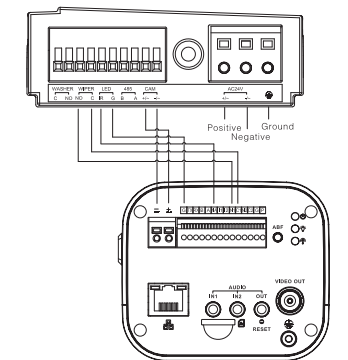


Figure 2-4 Wiring Diagram of IPC Interface (Routine Mode)

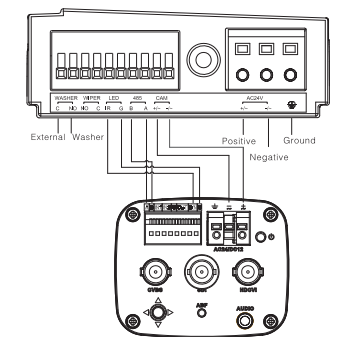


Figure 2-5 Wiring Diagram of CVI Interface (Remote Mode 1)

Product Model	DH-PFH610N	DH-PFH610A	DH-PFH610N-H	DH-PFH610A-H
Working Humidity	< 90%, non-condensation			
Working Voltage	N/A		AC 24V	
Working Frequency	N/A		50/60Hz	
Rated Power	N/A		30W	
Auto Temperature Control Range (Heating)	N/A		On: 5 ± 5°C OFF: 15 ± 5°C	
Auto Temperature Control Range (Cooling)	N/A		On: 37 ± 5°C OFF: 20 ± 5°C	
Infrared Distance	N/A			
White Light Distance	N/A			
Anti-corrosion	N/A	YES	N/A	YES
Wiper	N/A			
Vandal Resistance	N/A	YES	N/A	YES

Product Model	DH-PFH610N-IR	DH-PFH610A-IR	DH-PFH610N-LED	DH-PFH610N-IR-W	DH-PFH610A-IR-W
Product Size (L x W x H)	404mm x 164mm x 132mm			404mm x 164mm x 175mm	
Max. Size of Camera (L x W x H)	255mm x 90mm x 70.5mm or 215mm x 90mm x 83mm				
Window Area	Φ60mm		100mm x 80mm		
Weight	3.0kg		3.5kg		3.0kg
Material	AL + PC				
Protection Level	IP67				
Installation Environment	Indoor/outdoor				
Working Temperature	-40°C ~ +60°C				
Working Humidity	< 90%, non-condensation				
Working Voltage	AC 24V				
Working Frequency	50/60Hz				
Rated Power	55W	55W	58W	32W	
Auto Temperature Control Range (Heating)	On: 5 ± 5°C OFF: 15 ± 5°C				
Auto Temperature Control Range (Cooling)	On: 37 ± 5°C OFF: 20 ± 5°C				
Infrared Distance	0m - 100m	N/A	0m - 100m	N/A	
White Light Distance	N/A	0m - 60m	N/A		
Anti-corrosion	N/A	YES	N/A		
Wiper	N/A				
Vandal Resistance	N/A	YES	N/A		



# 轻型系列防护罩

使用说明书  
V1.0.2

浙江大华技术股份有限公司

## 产品保修卡

感谢您购买本产品，此卡为您的免费保修凭证

终身质保  
免费保修期：贰年

### 保修说明

- 保修卡适用于您购买的本公司系列产品。
- 凡保修期内，由于本产品自身引起的故障，请与本公司售后服务联系。
  - 购机后请及时邮寄，传真已填好的保修卡，您可享受免费的维修和更换，否则恕不办理。
  - 保修时我们将使用您的保修卡信息，请认真填写。
  - 以下情况，属于有偿保修范围。
    - 人为原因造成的设备故障
    - 因使用环境不符合本产品要求造成的故障
    - 因不可抗力造成的产品损坏
    - 无产品序号、保修卡，或产品序号及标贴模糊不清、破损、无法辨识
    - 已过保修期

产品名称：_____	购买日期：_____
产品序号：_____	用户名称：_____
通讯地址：_____	联系人：_____
电话：_____	邮编：_____
经销商：_____	传真：_____
电话：_____	联系人：_____

## 概述

本文主要介绍如何安装轻型系列防护罩。

## 符号约定

在本文中可能出现下列标志，它们所代表的含义如下。

符号	说明
	表示有中度或低度潜在危险，如果不能避免，可能导致人员轻微或中等伤害。
	表示有潜在风险，如果忽视这些文本，可能导致设备损坏、数据丢失、设备性能降低或不可预知的结果。
	表示是正文的附加信息，是对正文的强调和补充。

## 重要安全须知

下面是关于产品的正确使用方法、为预防危险、防止财产受到损失等内容，使用设备前请仔细阅读本说明书并在使用时严格遵守，阅读后请妥善保存说明书。

### 注意

- 请安装在稳定的场所，注意防止本产品坠落。
- 仅在额定输入输出范围内使用设备。
- 请不要随意拆卸设备。

### 警告

- 产品必须使用本地区推荐使用的电线组件（电源线），并在其额定规格内使用。
- 请使用满足SELV（安全超低电压）要求的电源，并按照IEC60950-1符合Limited Power Source（受限制电源）的额定电压供电，具体供电要求以设备标签为准。
- 如果使用电源插头或器具耦合器等作为断开装置，请保持断开装置可以方便的操作。

## 关于本文档

- 产品请以实物为准，本文档仅供参考。
- 本文档供多个型号产品做参考，每个产品的具体操作不一例举，请用用户根据实际产品自行对照操作。
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- 本文档可能包含技术上不准确的地方、或与产品功能及操作不相符的地方、或印刷错误，以公司最终解释为准。

## 1 产品概述

轻型系列防护罩对摄像机和镜头全天候保护，在高温、低温、下雨、下雪等恶劣环境下，保证摄像机正常工作。防护罩支持安装多种尺寸的摄像机和镜头，内置可调节摄像机固定板，且具有较高的防护等级。轻型系列防护罩以下简称“护罩”。

### 1.1 产品特性

- 全新的侧翻盖设计，便于设备安装调试。
- 全铝外壳全密封设计，防护等级可达IP66/IP67。
- 内置加热散热系统，保证设备稳定运行。
- 视窗采用防水镀膜，减少天气对摄像机的影响。
- 支持1~100m补光灯，提供辅助光线。
- 支持补光灯、雨刷等功能的远程控制。

位置	接口	说明
	WASHER (NO/C)	<ul style="list-style-type: none"> <li>当远程模式一时，此接口为外置清洗设备接口。</li> <li>当远程模式二和常规模式时，此接口可不接。</li> </ul>
红外驱动板	NO/C	<ul style="list-style-type: none"> <li>当远程模式一时，此接口可不接。</li> <li>当远程模式二时，此接口为红外控制接口，连接摄像机常开型报警输出端。</li> <li>当常规模式时，此接口可不接。</li> </ul>

### 2.3 安装摄像机

- 将摄像机安装板从护罩内取出。
- 将摄像机固定到摄像机安装板上。
- 将摄像机安装板固定到护罩壳体上，如图2-7所示。

- 说明**
- 摄像机镜头安装时尽量靠近玻璃内表面（距离为1-3mm佳），以免影响镜头视角。
  - 根据摄像机的大小，摄像机安装板可正反安装。

图2-7 摄像机安装示意图

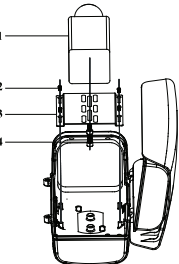


表2-4 摄像机部件说明

序号	部件名称
1	摄像机
2	固定摄像机安装板螺钉 (M3×8组合螺钉)
3	摄像机安装板
4	固定摄像机螺钉 (1/4-20×8UNC盘头组合螺钉)

### 2.4 操作控制说明

红外灯板带拨码开关，默认6颗红外灯全部开启。除远程模式一外，其他两种模式可将拨码开关的拨片拨到1或2处，关闭对应红外灯（最多可关闭4颗灯），以满足近距离的补光要求。

图2-8 拨码说明

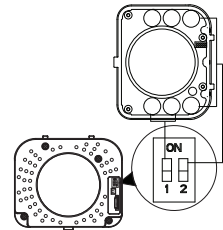


表2-3 接口说明

位置	接口	说明
接口板	AC24V	电源输入口，接外部电源。
	CAM	电源输出口，与外部供电电源一致，为摄像机供电。
	485 (A/B)	<ul style="list-style-type: none"> <li>当远程模式一时，此接口为补光灯和雨刷的控制接口。</li> <li>当远程模式二和常规模式时，此接口可不接。</li> </ul>
	LED (IR/G)	此接口为红外灯点亮反馈信号端，仅适用带红外灯的产品。
接口板	WIPER (NO/C)	<ul style="list-style-type: none"> <li>当远程模式一时，此接口可不接。</li> <li>当远程模式二和常规模式时，此接口为雨刷控制接口，连接摄像机常开型报警输出端。</li> </ul>

## 1.2 产品尺寸

图1-1 DH-PFH610N、DH-PFH610N-H (单位: mm)

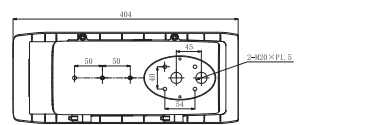


图1-2 DH-PFH610N-IR/LED、DH-PFH610A-IR、DH-PFH610A和DH-PFH610A-H (单位: mm)

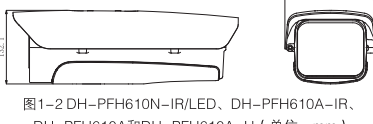


图1-3 DH-PFH610N-W、DH-PFH610N-IR-W (单位: mm)

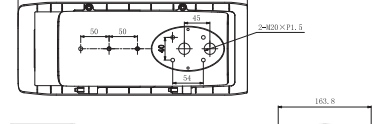
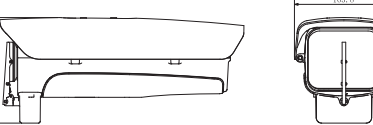
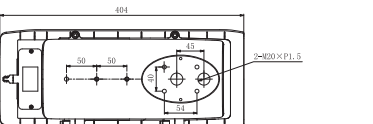


图1-3 DH-PFH610N-W、DH-PFH610N-IR-W (单位: mm)



## 2 护罩安装指导

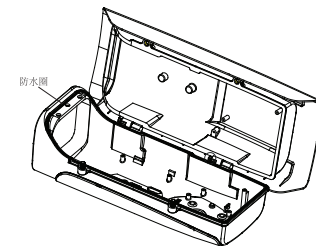
### 2.1 开启与锁紧护罩

通过侧边的两颗M6螺钉，再借助内六角扳手（5.0mm规格）等工具，可以开启或锁紧护罩。

### 注意

在合盖前，请检查壳体防水圈是否已正确安装到位，否则可能会影响到护罩的防水性能，如图2-1所示。

图2-1 壳体防水圈图



### 2.2 控制及接线说明

当护罩带补光灯/雨刷模块时，共有3种控制模式，具体请参见表2-1和表2-2。

### 3.2 安装专用型支架

- 专用型支架指护罩支架一体化，支持隐藏式出线。
- 将线束从支架内部穿出，如图3-2所示。
  - 将支架锁紧到防护罩上，如图3-3所示。
  - 在线束上套上防水接头并将防水接头拧紧，如图3-4所示。

图3-2 安装示意图1

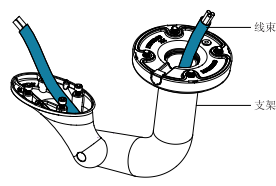


图3-3 安装示意图2

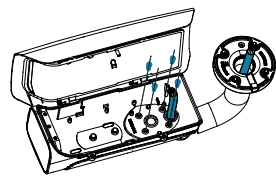
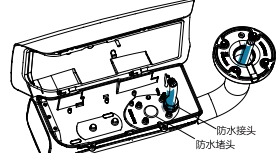


图3-4 安装示意图3



### 注意

接线时，建议线束分为信号线束和电源线束，分别从两个孔中穿出，并接上防水接头。如果有线从一个孔穿出接防水接头，建议另外一个孔用防水堵头封闭，预防漏水。

### 3.3 支架类型

- 说明**
- 支架不在防护罩的基本配置之内，如需使用，请另行购买。
  - 防腐型护罩，需配专用防腐型支架。
- 各种安装悬挂方式对应的支架型号请参见表3-1。

表3-1 悬挂方式对应支架型号

悬挂支架方式	示意图	支架型号
吊装		DH-PFB600W
壁挂		DH-PFB604W
平面装		DH-PFA160 DH-PFA162
横杆安装		DH-PFA150+ DH-PFA160 DH-PFA150+ DH-PFA162
立装1		DH-PFB601W

表2-1 IPC控制模式说明

模式	适用IPC摄像机类型	接线说明
远程模式一	摄像机带RS485控制功能。	通过WEB界面控制补光灯及雨刷的状态，具体接线IPC如图2-2所示。
远程模式二	摄像机不带RS485控制功能，且摄像机“N/C”接口可满足“LED”及“WIPER”的连接。	通过摄像机报警选项控制补光灯和雨刷的开关，具体接线如图2-3所示。
常规模式	摄像机不带RS485控制功能，且摄像机“N/C”接口无法满足同时满足“LED”及“WIPER”的连接。	通过摄像机报警控制雨刷的开关，通过补光灯光敏控制灯的开关，具体接线IPC如图2-4所示。

表2-2 CVI控制模式说明

模式	使用IPC摄像机类型	接线说明
远程模式	摄像机带RS485控制功能。	通过WEB界面控制补光灯及雨刷的状态，具体接线如图2-5所示。
常规模式	摄像机不带RS485控制功能。	通过摄像机报警控制雨刷的开关，通过补光灯光敏控制灯的开关，具体接线如图2-6所示。

### 说明

- 摄像机带RS485控制功能，是指WEB界面“外设管理”菜单中有“外接灯设置”和“雨刷设置”的功能。
- 根据不同的摄像机类型，选用对应的控制模式。
- 摄像机接口“N/C”、“NO/C”和“OUT/G”功能相同，不同类型设备显示会有差异。
- 摄像机带RS485控制功能时，“云台设置”需调整到“默认”状态。
- 白光灯护罩不支持远程模式二。

### 注意

请勿将“NO/C”或“OUT/G”端口连接到IR/G端口，否则会造成红外灯损坏。

图2-2 IPC端口接线示意图 (远程模式一)

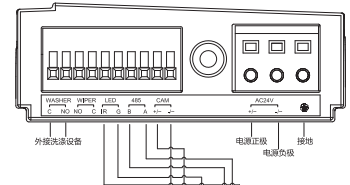


图2-3 IPC端口接线示意图 (远程模式二)

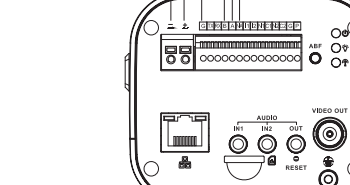


图2-4 IPC端口接线示意图 (常规模式)

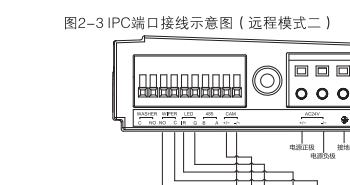


图2-5 CVI端口接线示意图 (远程模式)

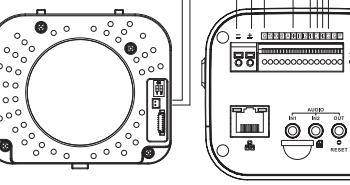
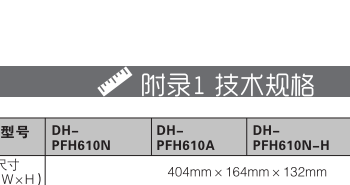


图2-6 CVI模式接线示意图 (常规模式)



## 附录1 技术规格

产品型号	DH-PFH610N	DH-PFH610A	DH-PFH610N-H	DH-PFH610A-H
产品尺寸 (L×W×H)	404mm×164mm×132mm			
摄像机最大尺寸 (L×W×H)	255mm×90mm×83mm	255mm×90mm×70.5mm 或215mm×90mm×83mm		
视窗面积	100mm×80mm	Φ60mm	100mm×80mm	Φ60mm
重量	2.5kg		2.7kg	
材质	AL+PC			
防护等级	IP67			
安装环境	室内/外			
工作温度范围	-30℃~+60℃		-40℃~+60℃	
工作湿度	<90%，无冷凝			
工作电压	N/A	AC 24V		
工作频率	N/A	50/60Hz		
额定功率	30W			
自动温控范围 (加热)	N/A	On: 5±5℃ OFF: 15±5℃		
自动温控范围 (散热)	N/A	On: 37±5℃ OFF: 20±5℃		
红外距离	N/A			
白光距离	N/A			
防腐性	N/A	YES	N/A	YES
雨刷	N/A			
防暴	N/A	YES	N/A	YES

产品型号	DH-PFH610N-IR	DH-PFH610A-IR	DH-PFH610N-LED	DH-PFH610N-W	DH-PFH610N-W
产品尺寸 (L×W×H)	404mm×164mm×132mm			404mm×164mm×175mm	
摄像机最大尺寸 (L×W×H)	255mm×90mm×70.5mm或215mm×90mm×83mm				
视窗面积	Φ60mm			100mm×80mm	
重量	3.0kg		3.5kg, 3.0kg		
材质	AL+PC				
防护等级	IP67			IP66	
安装环境	室内/外				
工作温度范围	-40℃~+60℃				
工作湿度	<90%，无冷凝				
工作电压	AC 24V				
工作频率	50/60Hz				
额定功率	55W	55W	58W	32W	
自动温控范围 (加热)	On: 5±5℃ OFF: 15±5℃				
自动温控范围 (散热)	On: 37±5℃ OFF: 20±5℃				
红外距离	0m~100m	N/A	0m~100m	N/A	
白光距离	N/A	YES	0m~60m	N/A	
防腐性	N/A	YES	N/A	YES	
雨刷	N/A				
防暴	N/A	YES	N/A	YES	

