Hanwha Vision

# СЕТЕВАЯ КАМЕРА

## Руководство пользователя

XNV-6081Z/XNV-8081Z
XND-6081VZ/XND-8081VZ
XND-6081FZ/XND-8081FZ

CE

# Сетевая Камера
## Руководство пользователя

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❖ **Конструкция и характеристики устройства могут быть изменены без предварительного уведомления.**

❖ **Первоначальный ID администратора - "admin", а пароль следует задать при первом входе в систему.**
**Для надежной защиты личной информации и предотвращения ущерба от кражи данных меняйте пароль каждые три месяца.**
**Имейте в виду, что ответственность за безопасность а также за любые проблемы, связанные с ненадлежащим обращением с паролем, несет пользователь.**

## ВАЖНЫЕ ПРАВИЛА ТЕХНИКИ БЕЗОПАСНОСТИ

1. Прочтите эти правила.
2. Сохраните эти правила.
3. Принимайте во внимание все предупреждения.
4. Следуйте всем правилам.
5. Не используйте изделие вблизи воды.
6. Очищайте загрязненные места на поверхности изделия мягкой, сухой или влажной тряпкой. (Не используйте моющие средства либо косметические продукты, содержащие спирт, растворители. либо ПАВ, либо смазочные материалы, поскольку они могут привести к деформации или повреждению продукта.)
7. Не загораживайте никакие вентиляционные отверстия. Выполните установку изделия в соответствии с инструкциями изготовителя.
8. Не устанавливайте изделие рядом с источниками тепла, такими, как радиаторы, решетки системы отопления, или другими устройствами, которые генерируют тепло (включая усилители).
9. В целях безопасности не отказывайтесь от использования вилок поляризованного или заземляющего типа. Вилка поляризованного типа имеет два ножевых контакта, один из которых шире другого. Вилка заземляющего типа имеет два контакта и третий заземляющий штырь. Широкое лезвие третьего заземляющего штыря предусмотрено для вашей безопасности. Если вилка поставляемого вместе с аппаратом шнура питания не подходит для вашей розетки, попросите опытного электрика заменить старую розетку.
10. Не наступайте на шнур питания и не допускайте его защемления, особенно вблизи от штепсельной вилки, в месте подключения к розетке и там, где шнур выходит из изделия.
11. Пользуйтесь только теми приспособлениями/ принадлежностями, которые рекомендованы изготовителем.
12. Используйте устройство только с тележкой, подставкой, штативом, кронштейном и столом, указанными производителем или приобретенными вместе с устройством. Во избежание травм вследствие опрокидывания тележки с устройством соблюдайте осторожность при ее передвижении.

13. Отсоединяйте устройство от сети во время грозы или если оно не используется в течение длительного времени.
14. Все работы, связанные с техническим обслуживанием изделия, должны выполняться квалифицированными специалистами по техническому обслуживанию. Обслуживание изделия требуется выполнять, когда изделие получило какое-либо повреждение, например, был поврежден его шнур питания или вилка шнура питания, внутрь изделия попала жидкость или посторонние предметы, изделие подверглось воздействию дождя или влаги, изделие не работает должным образом, а также после падения изделия.
15. Это изделие предназначено для поставки с указанным источником питания с маркировкой «Класс 2» или «LPS» и номинальной мощностью от 12 В пост. тока 0,7 А или PoE 0,27 А. (XND-6081FZ/XND-6081VZ)
16. Это изделие предназначено для поставки с указанным источником питания с маркировкой «Класс 2» или «LPS» и номинальной мощностью от 12 В пост. тока 0,75 А или PoE 0,3 А. (XND-8081FZ/XND-8081VZ)
17. Это изделие предназначено для поставки с указанным источником питания с маркировкой «Класс 2» или «LPS» и номинальной мощностью от 12 В пост. тока 0,8 А, 24 В перем. тока 0,8 А или PoE 0,3 А. (XNV-6081Z)
18. Это изделие предназначено для поставки с указанным источником питания с маркировкой «Класс 2» или «LPS» и номинальной мощностью от 12 В пост. тока 0,85 А, 24 В перем. тока 0,9 А или PoE 0,33 А. (XNV-8081Z)
19. Если при установке изделия прилагать чрезмерные усилия, возможно повреждение с нарушением работы камеры. Если с силой устанавливать устройство, пользуясь неподходящими инструментами, возможно повреждение устройства.
20. Не допускается установка устройства в местах, где присутствуют или могут появляться химические вещества или пары масла, Поскольку пищевые масла, например, соевое, могут вызвать повреждение или привести к деформации устройства, не устанавливайте его на кухне или вблизи кухонного стола. В противном случае возможна порча устройства.
21. При установке устройства будьте осторожны, не допускайте попадания химических веществ на его поверхность. Некоторые химические растворители, например, очистители или клеящие вещества, могут сильно повредить поверхность продукта.
22. Если монтировать/демонтировать устройство не рекомендованным образом, нельзя гарантировать выполнение функций/соответствие характеристик устройства. Устанавливайте устройство, обратившись к разделу "Установка и подключение" в руководстве пользователя.
23. Установка или эксплуатация устройства в воде может привести к значительному повреждению изделия.
24. Быстрое изменение температуры может привести к появлению инея внутри купола, однако это не скажется на качестве видеозаписи.

## ПРЕДУПРЕЖДЕНИЕ

ВО ИЗБЕЖАНИЕ ПОВРЕЖДЕНИЙ, СЛЕДСТВИЕМ КОТОРЫХ МОЖЕТ БЫТЬ ПОЖАР ИЛИ ПОРАЖЕНИЕ ЭЛЕКТРИЧЕСКИМ ТОКОМ, НЕ ДОПУСКАЙТЕ ПОПАДАНИЯ ДАННОГО ИЗДЕЛИЯ ПОД ДОЖДЬ ИЛИ В УСЛОВИЯ ВЫСОКО Й ВЛАЖНОСТИ. ЗАПРЕЩАЕТСЯ ВСТАВЛЯТЬ КАКИЕ-ЛИБО МЕТАЛЛИЧЕСКИЕ ПРЕДМЕТЫ В ВЕНТИЛЛЯЦИОННЫЕ РЕШЕТКИ ИЛИ ДРУГИЕ ОТВЕРСТИЯ В ОБОРУДОВАНИИ.

Не подвергайте устройство воздействию жидкостей. Не следует также ставить на него предметы, наполненные жидкостью, например вазы.

Во избежание травм данное устройство должно быть надежно закреплено на стене/потолке в соответствии с инструкциями по установке.

## ВНИМАНИЕ

## ОПИСАНИЕ ГРАФИЧЕСКИХ ОБОЗНАЧЕНИЙ

Молния со стрелкой в равностороннем треугольнике предупреждает пользователя об "опасном напряжении" в корпусе изделия, которое может представлять риск поражения электрическим током.

Восклицательный знак в равностороннем треугольнике предупреждает пользователя о важных инструкциях по работе и обслуживанию в руководстве, которое прилагается к устройству.

## Класс Конструкции I

Устройства КЛАССА I следует подключать к ЭЛЕКТРО розетке с защитным заземлением.

## Батарея

Не подвергайте батареи (батарейный блок) чрезмерному нагреванию под воздействием солнечных лучей, огня и т.п.

Батарею невозможно заменить.

## Отключение устройства

Отсоедините вилку кабеля питания от устройства в случае повреждения. Обратитесь к местному специалисту по ремонту.

**При использовании за пределами США с соединениями одобренными соответствующим органом, может использоваться кодировка HAR.**

## ВНИМАНИЕ

Настоящие инструкции по обслуживанию предназначены только для квалифицированных специалистов.
Во избежание поражения электрическим током не следует выполнять работы по обслуживанию, описанные в инструкциях по эксплуатации, если вы не обладаете соответствующей квалификацией.

К источнику входного питания может подсоединяться только одна камера.

**Оборудование ITE подключается только к сети питания по PoE без маршрутизации на оборудование наружной установки.**

Внимательно прочитайте приведенные ниже правила техники безопасности.

- Не ставьте устройство на неровную поверхность.
- Не устанавливайте устройство на поверхность, подверженную прямым солнечным лучам, рядом с нагревательным оборудованием или в очень холодном месте.
- Не устанавливайте это устройство вблизи электропроводящего.
- Не следует ремонтировать устройство самостоятельно.
- Не следует ставить на устройство стаканы с водой.
- Не устанавливайте поблизости источники магнитного поля.
- Не допускайте заграждения вентиляционных отверстий.
- Не ставьте тяжелые предметы на устройство.
- При установке/демонтаже камеры надевайте защитные перчатки.
  Высокая температура поверхности изделия может вызвать ожог.

Руководство пользователя содержит инструкции по использованию продуктов.

В руководстве используются следующие обозначения.

- Справка : сведения по использованию устройства
- Примечание : На случай возможных повреждений имущества или вреда здоровью людей в результате несоблюдения инструкций

※ Прочтите это руководство по безопасности перед использованием устройств и сохраните его в безопасном месте.

В некоторых условиях установки могут возникать помехи радиосвязи.
Если данное устройство и какое-либо устройство радиосвязи создают взаимные электромагнитные помехи, рекомендуется разнести их на достаточное расстояние или изменить направление приемной антенны.

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## РЕКОМЕНДУЕМАЯ КОНФИГУРАЦИЯ ПК

- Процессор : Intel(R) Core(TM) i7 3,4 Ггц или больше
- ОЗУ: 8 ГБ или больше
- Поддерживаемые ОС : MS Windows, Mac OS X
- Рекомендуемый браузер: Google Chrome
  Поддерживаемые браузеры: MS Explorer, MS Edge, Mozilla Firefox (только 64-битная Windows), Apple Safari (только Mac OSX)

※ Подробные данные о версиях проверенных ОС и браузеров см. в приложении.

## РЕКОМЕНДУЕМЫЕ ХАРАКТЕРИСТИКИ КАРТ ПАМЯТИ МИКРО SD/SDHC/SDXC

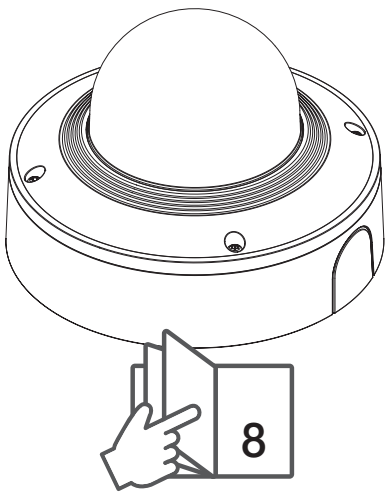
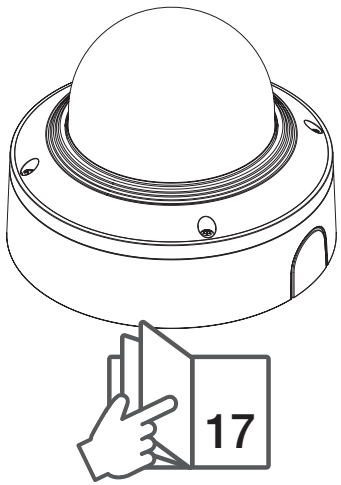
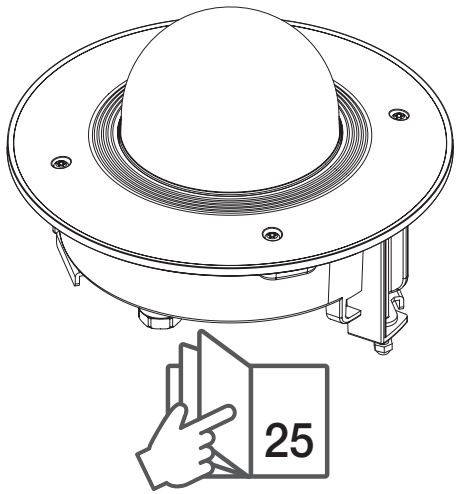
- Рекомендуемая емкость : от 16 до 256 Гбайт (типа MLC)
- Для данной камеры рекомендуются карты памяти следующих типов указанных производителей.
  - Производитель : SanDisk, Transcend
  - Линейка изделий: С длительным сроком службы

## РЕКОМЕНДУЕМЫЕ ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ NAS

- Рекомендуемый объем : Рекомендуемый объем – не менее 200 ГБ.
- Одновременный доступ : К одному устройству NAS может иметь доступ максимум шестнадцать камер.
- Для этой модели камеры рекомендуется использование NAS со следующими техническими характеристиками производителя.

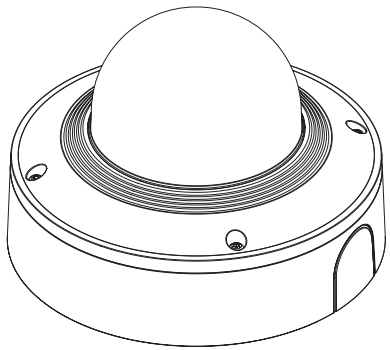
| Рекомендуемые продукты | Доступные размеры |
|---|---|
| QNAP NAS | Максимальное количество камер для одновременного доступа - 16. |
| Synology NAS | Максимальное количество камер для одновременного доступа - 16. |

▪ Если предполагается использование оборудования NAS не только для хранения видеоматериалов, количество одновременно доступных камер может быть сокращено.

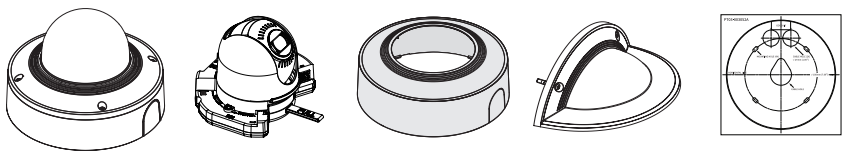
| Антивандальная купольная видеокамера для установки вне помещения | Антивандальная купольная видеокамера для установки в помещении | Купольная видеокамера с утапливаемым креплением |
|---|---|---|
| XNV-6081Z/XNV-8081Z | XND-6081VZ/XND-8081VZ | XND-6081FZ/XND-8081FZ |
|  |  |  |

## КОМПЛЕКТ ПОСТАВКИ

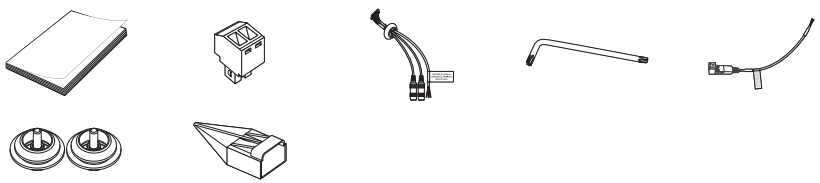
У изделий, продаваемых в разных странах, принадлежности могут отличаться.



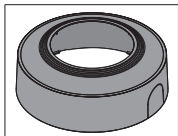
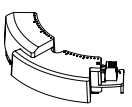
<XNV-6081Z/XNV-8081Z>



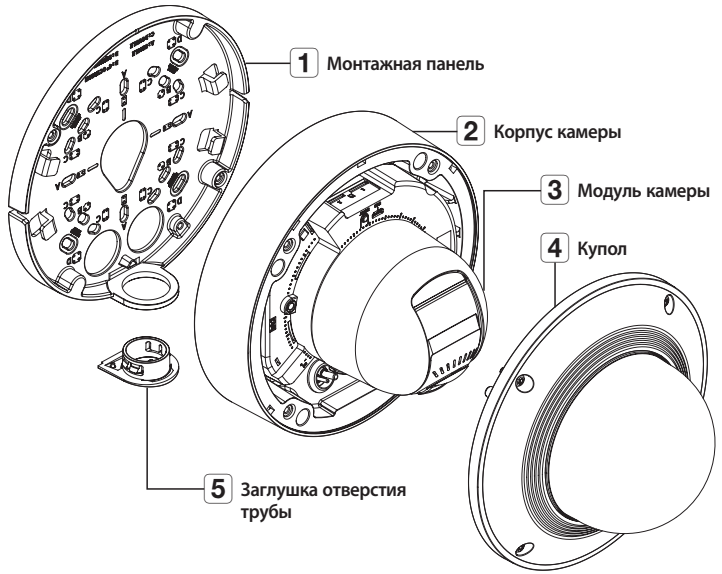
Цвет: слоновая кость

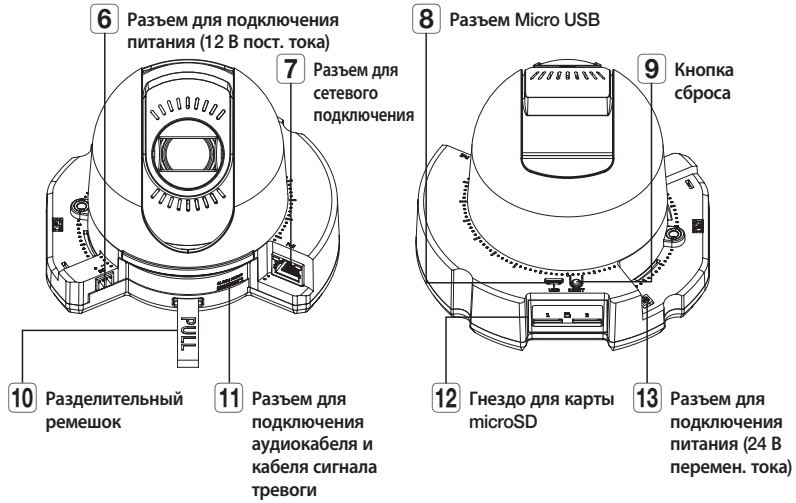


Дополнительно (приобретается отдельно)

| | |
|---|---|
|  |  |
| SBC-180B (цвет: черный) | SPC-100AC |

## ОБЩИЙ ОБЗОР



## УСТАНОВКА

- Эта камера водонепроницаема и соответствует стандарту IP67 / IP66, однако штекер внешнего кабеля водонепроницаемым не является. Рекомендуется установить это устройство под карнизом во избежание выступания кабеля наружу.

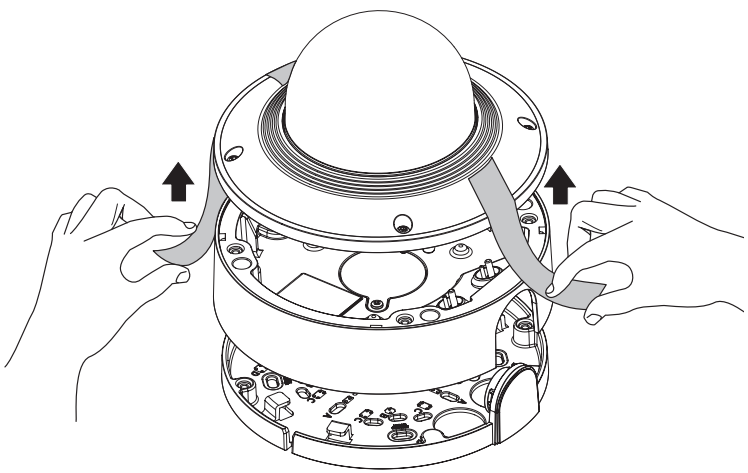
### Меры предосторожности, принимаемые перед установкой

Прежде чем устанавливать камеру, обязательно прочтите приведенные далее инструкции.

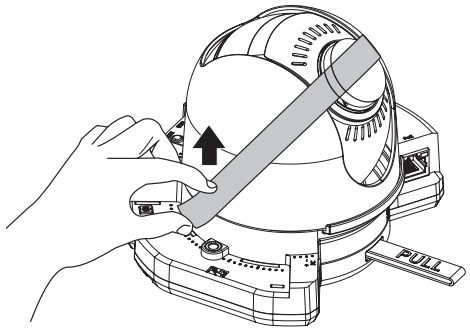
- Выберите место для установки, которое сможет выдержать вес, минимум в 5 раз превышающий вес самой камеры.
- Кабели с поврежденной или снятой изоляцией могут стать причиной повреждения устройства или возгорания.
- С целью предосторожности попросите посторонних лиц покинуть место установки. На всякий случай уберите все посторонние личные вещи.
- Если аппарат устанавливать с чрезмерным усилием, это может привести к повреждению камеры из-за неправильной работы.
  При сборке неподходящими инструментами с приложением усилий возможно повреждение аппарата.

### Удаление

**1.** Удалите ленту, фиксирующую корпус камеры.

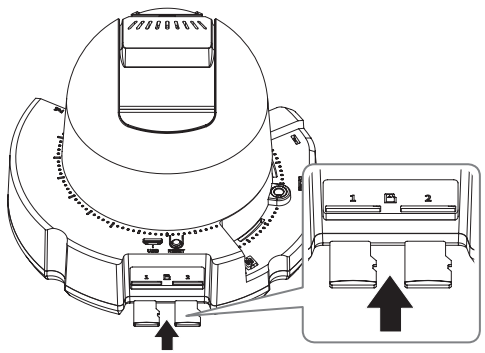


**2.** Удалите ленту с модуля камеры.




### Установка карты памяти Микро SD

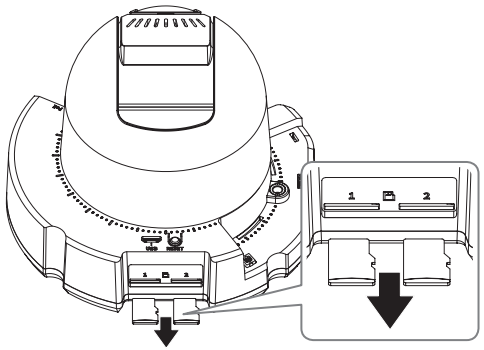
Вставьте карту microSD в соответствующее гнездо модуля камеры в направлении, указанном стрелкой.



- Карту microSD следует поместить в гнездо до установки камеры, когда она еще не подключена к источнику питания.
- Попытки неправильно вставить карту памяти microSD в гнездо могут привести к повреждению карты и всего устройства.
- Не рекомендуется вставлять или вынимать карту памяти Микро SD во время дождя или при высокой влажности.
- Перед установкой/извлечением карты памяти microSD убедитесь, что устройство находится на ровной поверхности, во избежание потери или падения каких-либо деталей.

### Извлечение карты памяти Микро SD

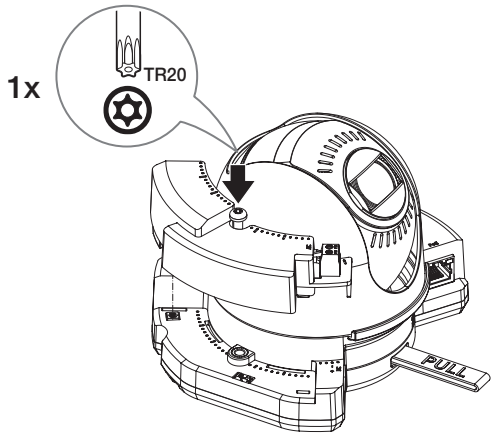
Мягко нажмите на выступающий конец карточки как показано на диаграмме, чтобы извлечь карточку из гнезда.



- Заметьте, что если во время извлечения сильно нажать на карту памяти Micro SD, а затем отпустить ее, она может выскочить.
- Перед извлечением карты памяти SD в меню <**Накопитель**>, установите устройство в состояние <**Выкл.**>, нажмите кнопку [**Применить**] и выключите камеру.
- Если Вы выключите камеру или извлечете из продукта карту памяти Микро SD, содержащую данные, то эти данные могут быть потеряны или повреждены.

### Установка модуля переменного тока (приобретается отдельно: SPC-100AC)

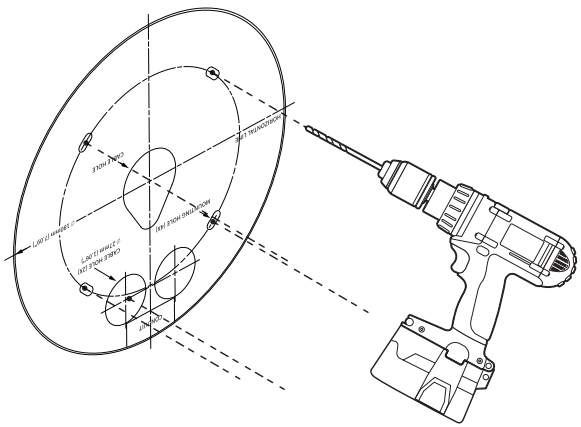
1. Установите модуль переменного тока, как показано на рисунке.
2. Затяните винт с помощью шестигранного ключа.



## Установка (монтажная панель)

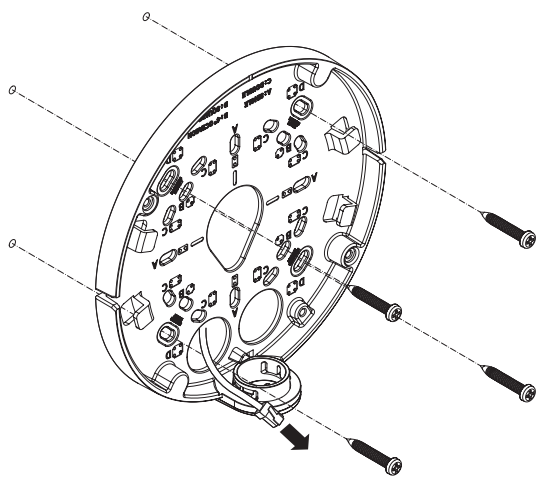
**[Установка непосредственно на стене или потолке]**

**1-1.** Закрепите шаблон установки в нужном месте и сделайте отверстия для винтов и кабелей.



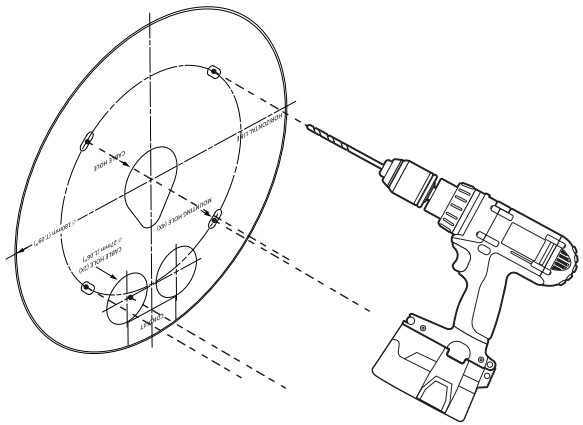
**1-2.** Закрепите монтажную панель с помощью подходящих винтов.

**1-3.** Пропустите необходимые кабели (LAN, питания, сигнала тревоги или аудиокабель) через отверстие в монтажной панели.

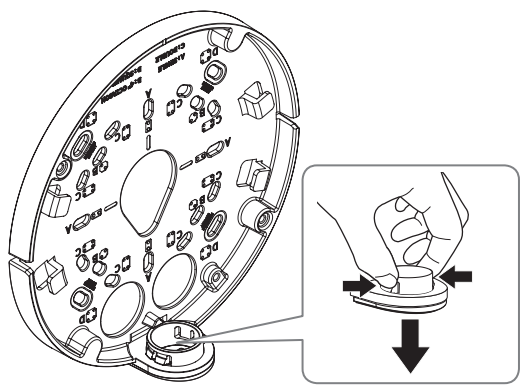


**[Установка с использованием трубы]**

**2-1.** Закрепите шаблон установки и сделайте отверстия для винтов и кабелей.



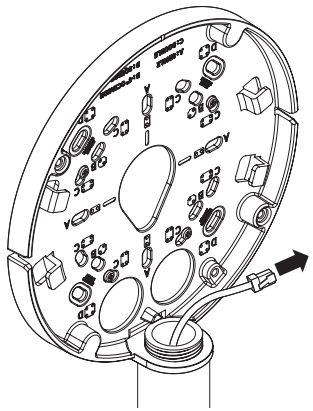
**2-2.** Удалите заглушку отверстия трубы с монтажной панели, надавив на нее по бокам.



**2-3.** Поместите трубу на монтажную панель.

**2-4.** Закрепите монтажную панель с помощью подходящих винтов.

**2-5.** Пропустите необходимые кабели (LAN, питания, сигнала тревоги или аудиокабель) через трубу.



## Установка (корпус камеры)

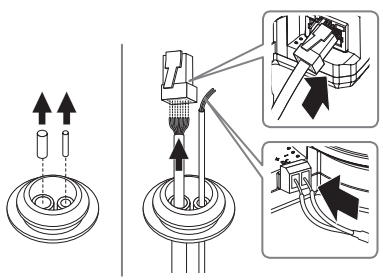
- Для подключения кабеля LAN используйте совместимый кабельный ввод.
  - Основной канал камеры: используйте кабель диаметром от 5 до 6,5.
  - Компоненты: используйте кабель диаметром от 5 до 8,5.

**[Установка кабеля LAN и кабеля питания]**

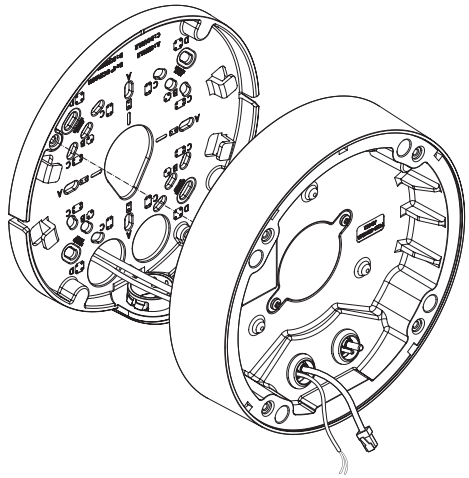
**1-1.** Извлеките выступающие части из кабельного ввода, который собираетесь использовать.

**1-2.** Протяните кабель LAN через большое отверстие кабельного ввода и подключите к разъему LAN.

**1-3.** При подключении питания: протяните кабель питания через маленькое отверстие кабельного ввода и подключите к клеммной колодке.



**1-4.** Закрепите кабельный ввод в корпусе камеры.

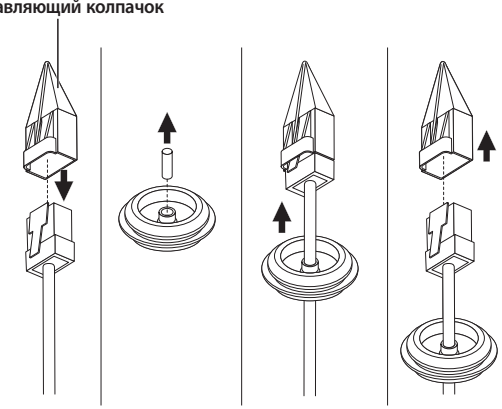


**[Установка кабеля LAN] (IP66)**

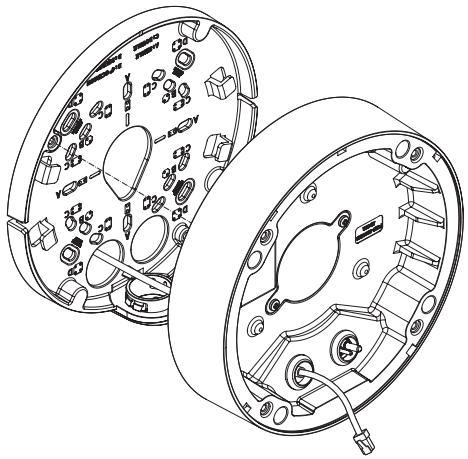
**2-1.** Извлеките выступающую часть из кабельного ввода с одним отверстием, входящего в комплект поставки.

**2-2.** Пропустите кабель RJ45 через отверстие, используя направляющий колпачок.

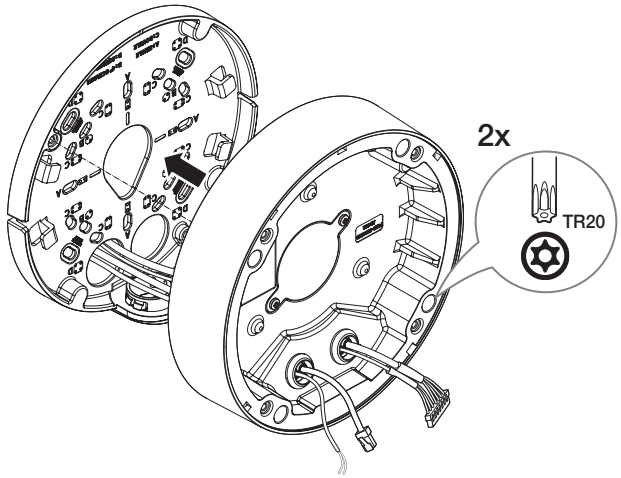
**Направляющий колпачок**



**2-3.** Закрепите кабельный ввод в корпусе камеры.



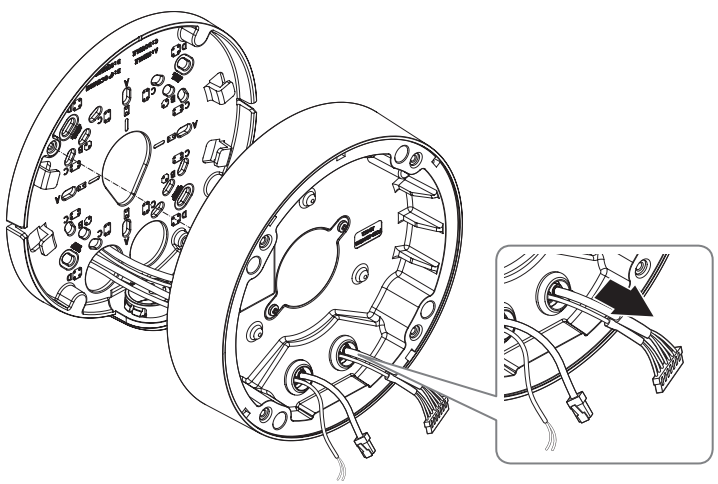
**4.** Прикрепите монтажную панель к корпусу камеры.






**[Установка аудиокабеля и кабеля сигнала тревоги]**

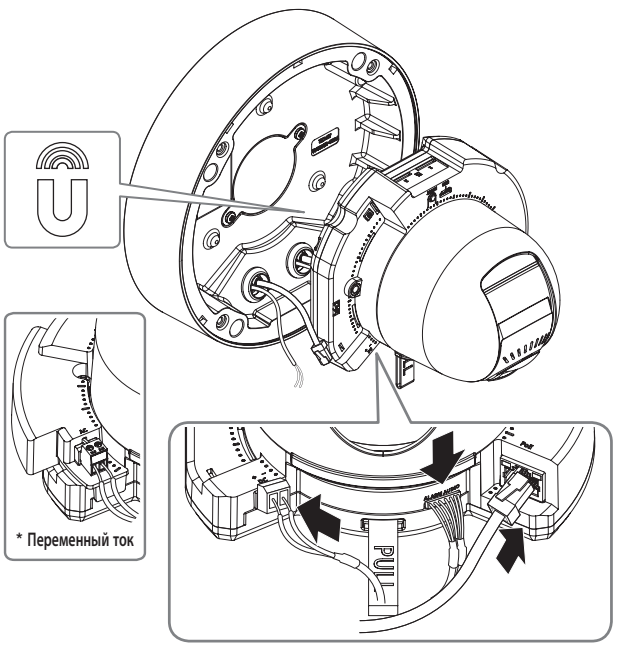
**3-1.** Закрепите кабельный ввод аудиокабеля и кабеля сигнала тревоги, входящих в комплект, в корпусе камеры.



### Установка модуля камеры

1. Подключите кабели LAN, питания, сигнала тревоги и аудиокабель к разъемам на модуле камеры.
2. Закрепите модуль камеры в корпусе.

- В нижней части модуля находится магнит.
- Убедитесь, что между скрепляемыми поверхностями нет посторонних предметов.



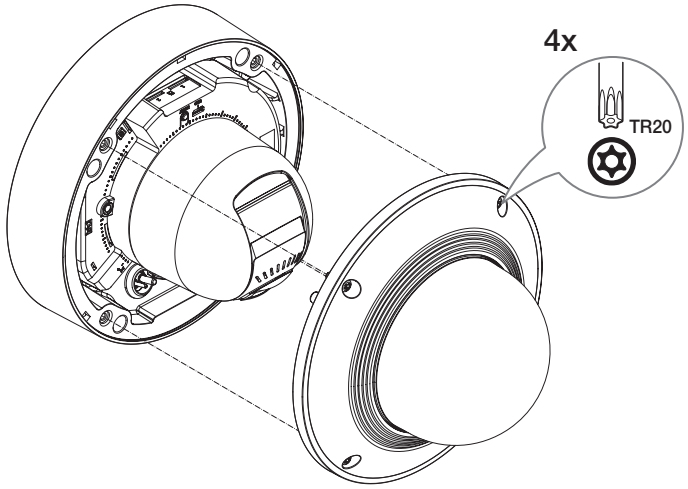

3. Поверните объектив в нужном направлении согласно инструкции в разделе «**Регулировка направления наблюдения камеры**» (стр. 33).

### Закрепление купола

**[Установка непосредственно на стене или потолке]**

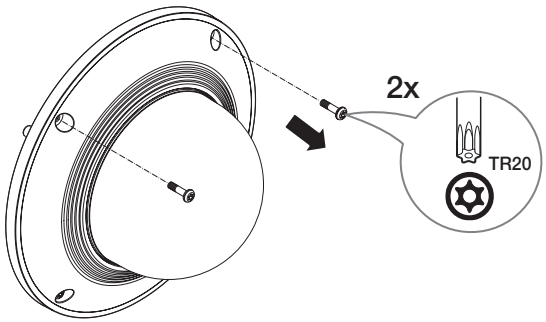
1. Установите купол.

- Плотно затяните крепежные винты, чтобы влага не попадала внутрь.



**[Использование защитного козырька]**

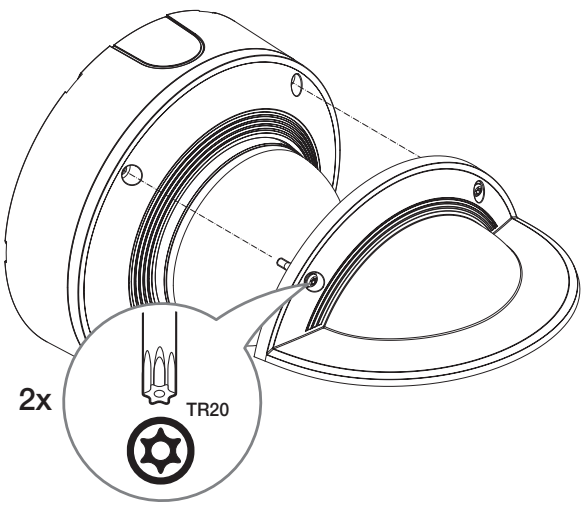
**1.** Выкрутите винты из купола.




**2.** Установите купол.

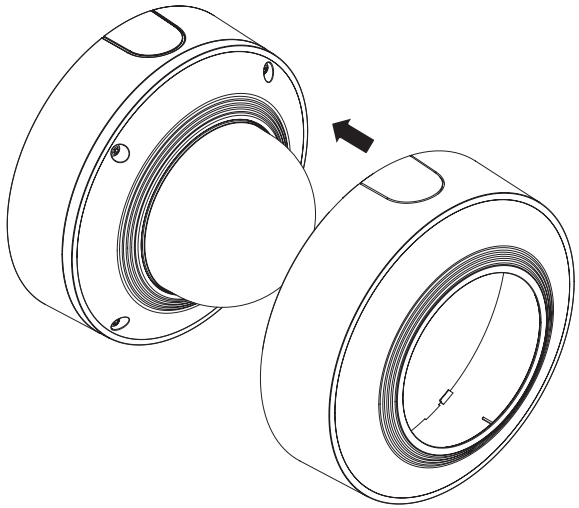
**3.** Установите защитный козырек на купол и затяните винты.

- Плотно затяните крепежные винты, чтобы влага не попадала внутрь.

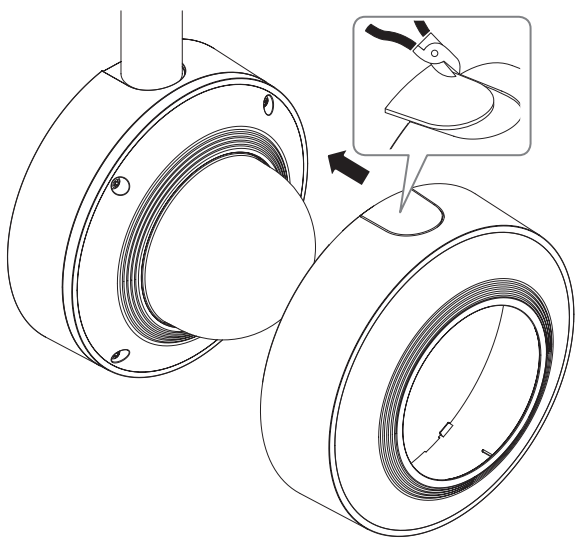



## Установка/удаление кожуха

**1.** Установите кожух, совместив заглушку с заглушкой отверстия трубы на корпусе.

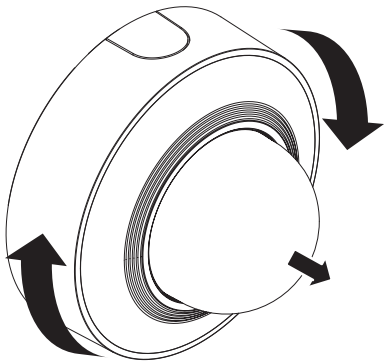


**2.** Если камера подключается с использованием трубы, удалите заглушку с кожуха перед установкой.

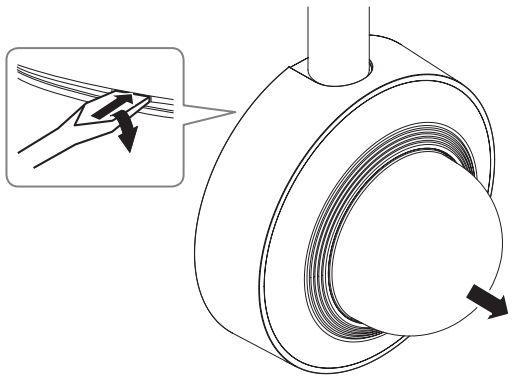


**3.** Чтобы снять кожух, потяните его, поворачивая по часовой стрелке, как показано на рисунке.

- Повторная установка и удаление кожуха могут привести к его повреждению.
- Чрезмерные усилия при установке и удалении кожуха могут привести к появлению царапин на устройстве.



- Если подсоединена труба, отсоедините ее с помощью подходящего инструмента.

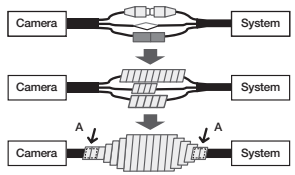


### Наружный монтаж

При монтаже этого устройства вне здания, пожалуйста, обеспечьте его водонепроницаемость с помощью водонепроницаемой ленты бутилкаучука (ее можно купить в магазине) так, чтобы вода не протекла в щель кабеля, выведенного наружу.

**1.** Подсоедините силовой кабель, кабели ввода/вывода, соединителя и кабели локальной сети передачи данных.

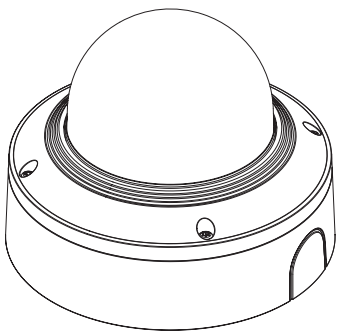
**2.** Оберните черный кабельный кожух (Зона A) и зону присоединения кабеля водонепроницаемой лентой (бутилкаучук) так, чтобы лента бутилкаучука перекрывалась больше чем на половину.



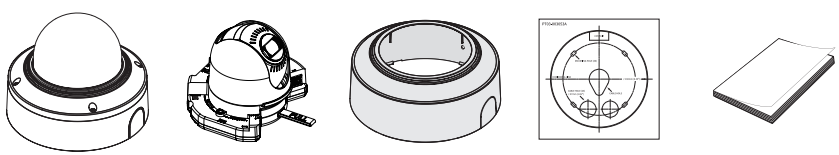

- Если не обеспечена надлежащая водонепроницаемость кабельного кожуха, это может стать причиной течи. Удостоверьтесь, что кабель обмотан толстым слоем ленты.
- Водонепроницаемая лента сделана из бутилкаучука, который может растягиваться по длине более чем в два раза.

## КОМПЛЕКТ ПОСТАВКИ

У изделий, продаваемых в разных странах, принадлежности могут отличаться.

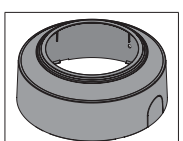


<XND-6081VZ/XND-8081VZ>



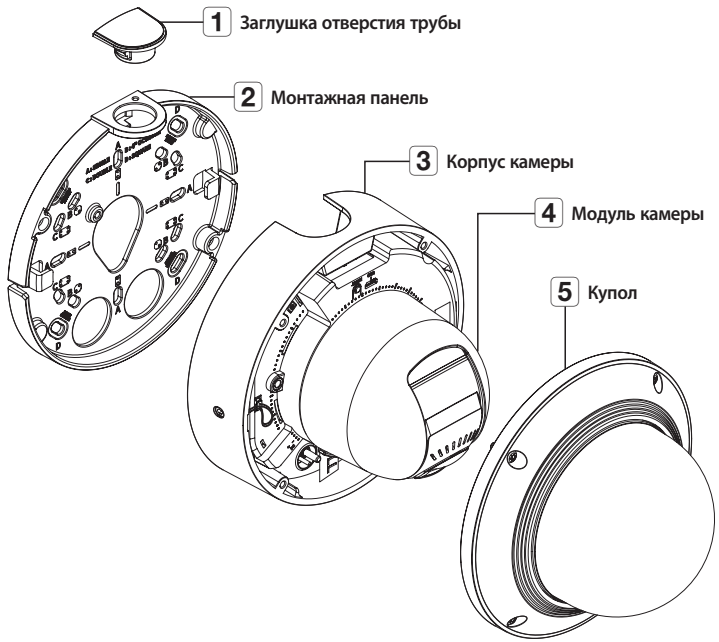
Цвет: слоновая кость

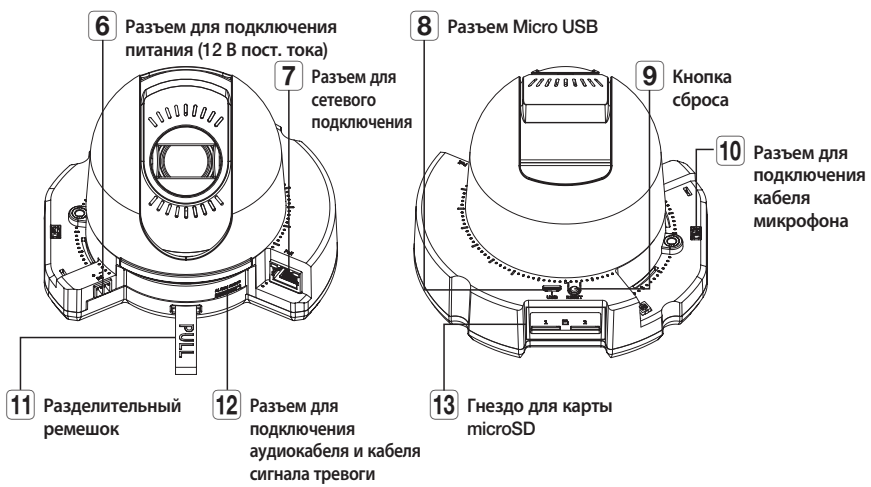
Дополнительно (приобретается отдельно)



SBC-160B
(цвет: черный)

## ОБЩИЙ ОБЗОР



## УСТАНОВКА

- Эта камера водонепроницаема и соответствует стандарту IP52, однако штекер внешнего кабеля водонепроницаемым не является. Рекомендуется установить это устройство под карнизом во избежание выступания кабеля наружу.

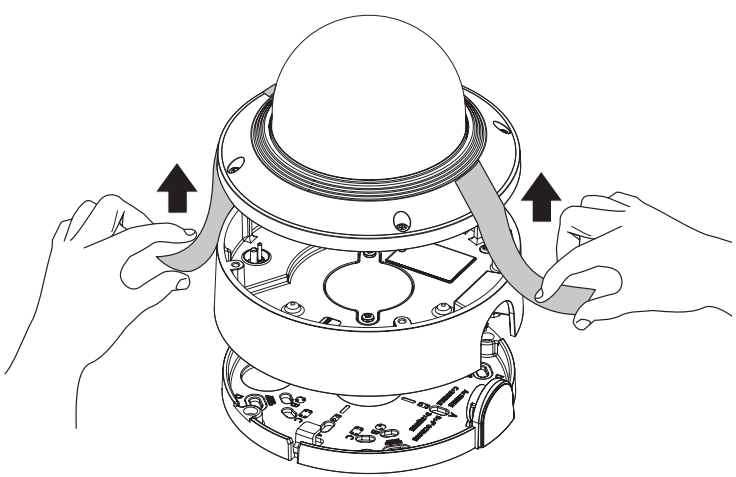
### Меры предосторожности, принимаемые перед установкой

Прежде чем устанавливать камеру, обязательно прочтите приведенные далее инструкции.

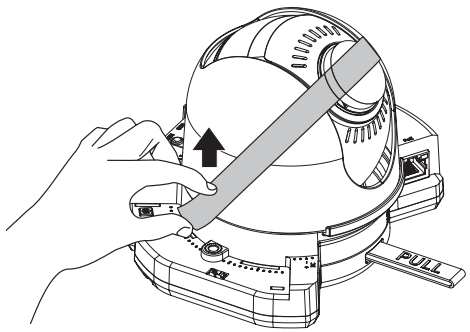
- Выберите место для установки, которое сможет выдержать вес, минимум в 5 раз превышающий вес самой камеры.
- Кабели с поврежденной или снятой изоляцией могут стать причиной повреждения устройства или возгорания.
- С целью предосторожности попросите посторонних лиц покинуть место установки. На всякий случай уберите все посторонние личные вещи.
- Если аппарат устанавливать с чрезмерным усилием, это может привести к повреждению камеры из-за неправильной работы.
  При сборке неподходящими инструментами с приложением усилий возможно повреждение аппарата.

### Удаление

**1.** Удалите ленту, фиксирующую корпус камеры.

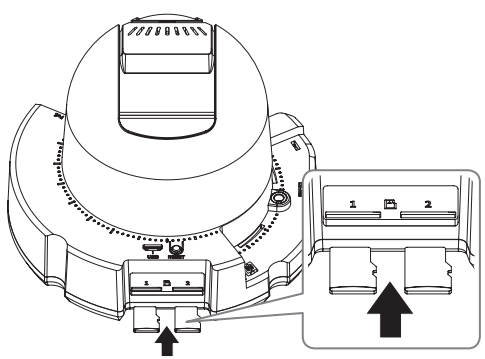


**2.** Удалите ленту с модуля камеры.




### Установка карты памяти Микро SD

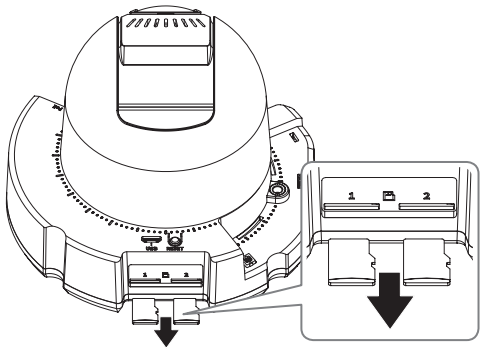
Вставьте карту microSD в соответствующее гнездо модуля камеры в направлении, указанном стрелкой.



- Карту microSD следует поместить в гнездо до установки камеры, когда она еще не подключена к источнику питания.
- Попытки неправильно вставить карту памяти microSD в гнездо могут привести к повреждению карты и всего устройства.
- Не рекомендуется вставлять или вынимать карту памяти Микро SD во время дождя или при высокой влажности.
- Перед установкой/извлечением карты памяти microSD убедитесь, что устройство находится на ровной поверхности, во избежание потери или падения каких-либо деталей.

## Извлечение карты памяти Микро SD

Мягко нажмите на выступающий конец карточки как показано на диаграмме, чтобы извлечь карточку из гнезда.

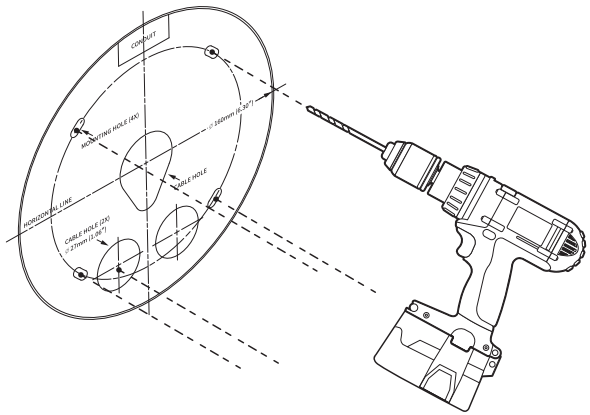


- Заметьте, что если во время извлечения сильно нажать на карту памяти Micro SD, а затем отпустить ее, она может выскочить.
- Перед извлечением карты памяти SD в меню <**Накопитель**>, установите устройство в состояние <**Выкл.**>, нажмите кнопку [**Применить**] и выключите камеру.
- Если Вы выключите камеру или извлечете из продукта карту памяти Микро SD, содержащую данные, то эти данные могут быть потеряны или повреждены.

## Установка (монтажная панель)

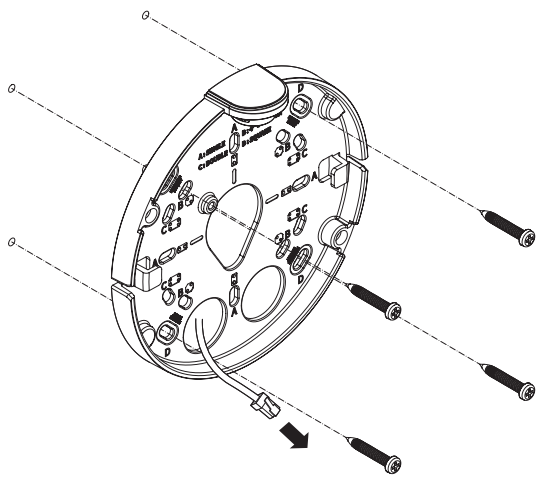
**[Установка непосредственно на стене или потолке]**

**1-1.** Закрепите шаблон установки в нужном месте и сделайте отверстия для винтов и кабелей.



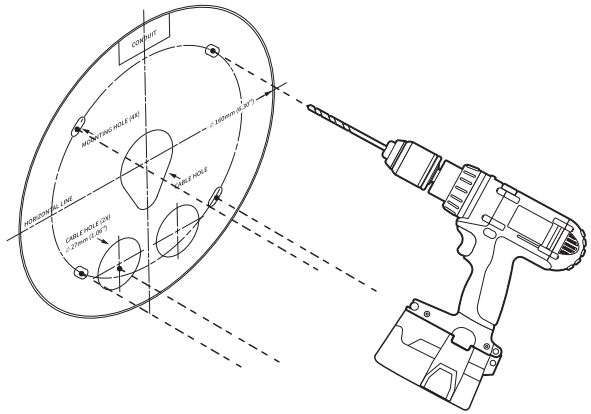

**1-2.** Закрепите монтажную панель с помощью подходящих винтов.

**1-3.** Пропустите необходимые кабели (LAN, питания, сигнала тревоги или аудиокабель) через отверстие в монтажной панели.

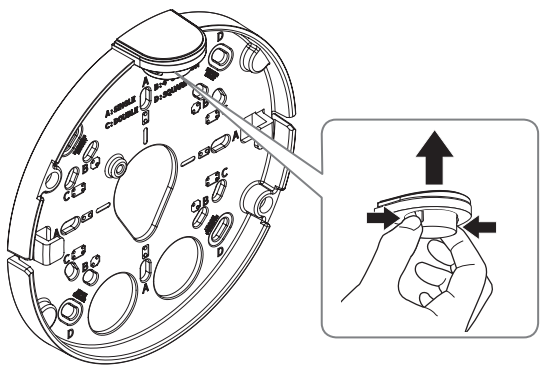


**[Установка с использованием трубы]**

**2-1.** Закрепите шаблон установки и сделайте отверстия для винтов и кабелей.



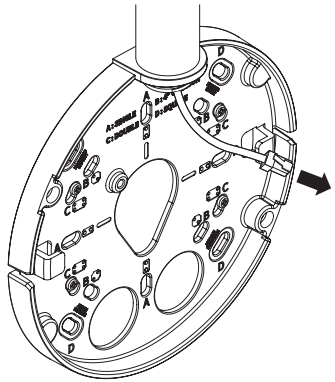

**2-2.** Удалите заглушку отверстия трубы с монтажной панели, надавив на нее по бокам.



**2-3.** Поместите трубу на монтажную панель.

**2-4.** Закрепите монтажную панель с помощью подходящих винтов.

**2-5.** Пропустите необходимые кабели (LAN, питания, сигнала тревоги или аудиокабель) через трубу.



## Установка (корпус камеры)

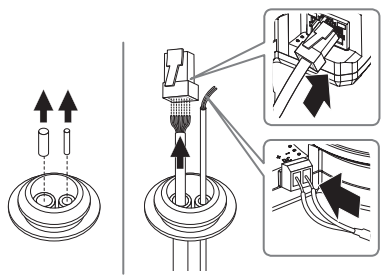
- Для подключения кабеля LAN используйте совместимый кабельный ввод.
  - Основной канал камеры: используйте кабель диаметром от 5 до 6,5.
  - Компоненты: используйте кабель диаметром от 5 до 8,5.

**[Установка кабеля LAN и кабеля питания]**

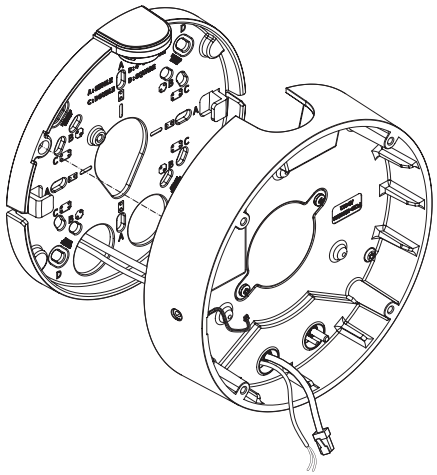
**1-1.** Извлеките выступающие части из кабельного ввода, который собираетесь использовать.

**1-2.** Протяните кабель LAN через большое отверстие кабельного ввода и подключите к разъему LAN.

**1-3.** При подключении питания: протяните кабель питания через маленькое отверстие кабельного ввода и подключите к клеммной колодке.



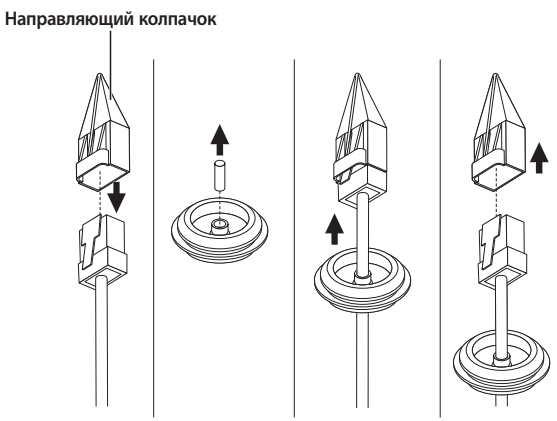
**1-4.** Закрепите кабельный ввод в корпусе камеры.



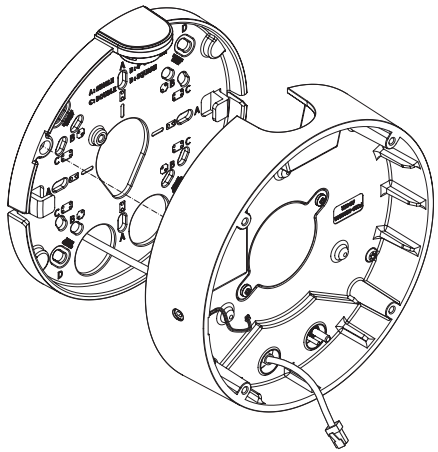
**[Установка кабеля LAN]**

**2-1.** Извлеките выступающую часть из кабельного ввода с одним отверстием, входящего в комплект поставки.

**2-2.** Пропустите кабель RJ45 через отверстие, используя направляющий колпачок.

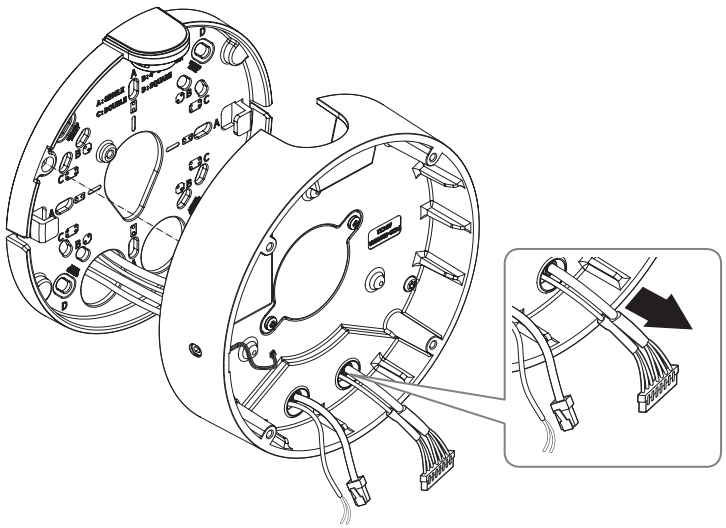



**2-3.** Закрепите кабельный ввод в корпусе камеры.

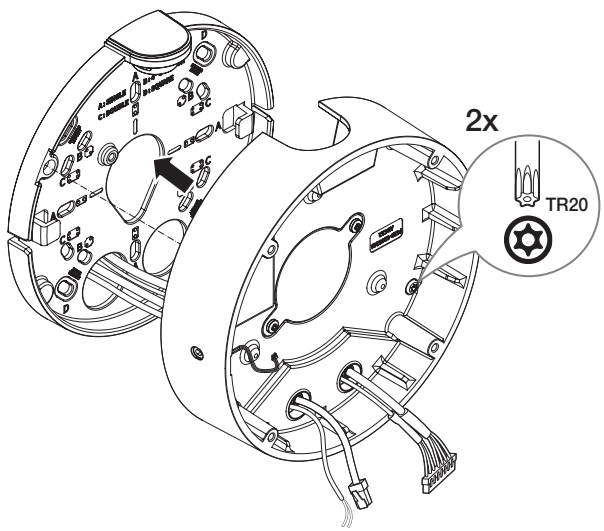


**[Установка аудиокабеля и кабеля сигнала тревоги]**

**3-1.** Закрепите кабельный ввод аудиокабеля и кабеля сигнала тревоги, входящих в комплект, в корпусе камеры.



**4.** Прикрепите монтажную панель к корпусу камеры.



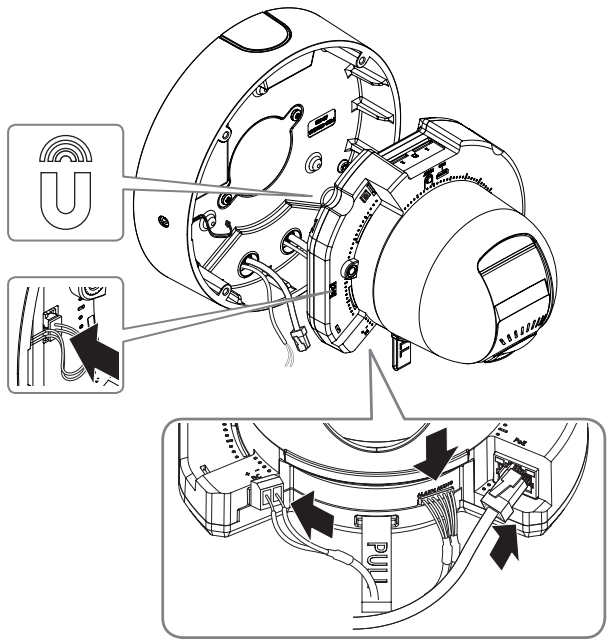

## Установка модуля камеры

**1.** Подключите кабели LAN, питания, сигнала тревоги и аудиокабель к разъемам на модуле камеры.

**2.** Закрепите модуль камеры в корпусе.

- В нижней части модуля находится магнит.
- Убедитесь, что между скрепляемыми поверхностями нет посторонних предметов.

**3.** Подключите кабель микрофона к модулю камеры.



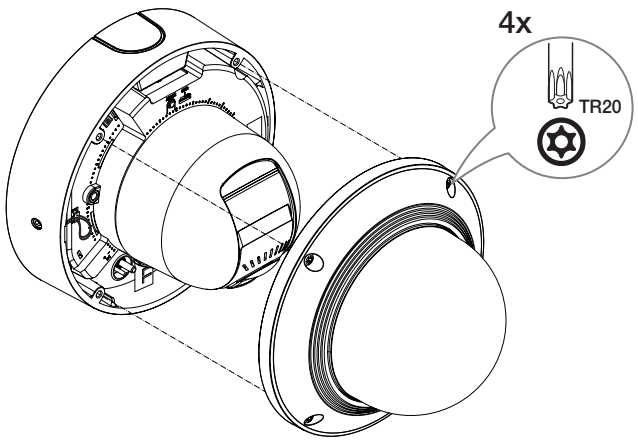
**4.** Поверните объектив в нужном направлении согласно инструкции в разделе «**Регулировка направления наблюдения камеры**» (стр. 33).

## Закрепление купола

**[Установка непосредственно на стене или потолке]**

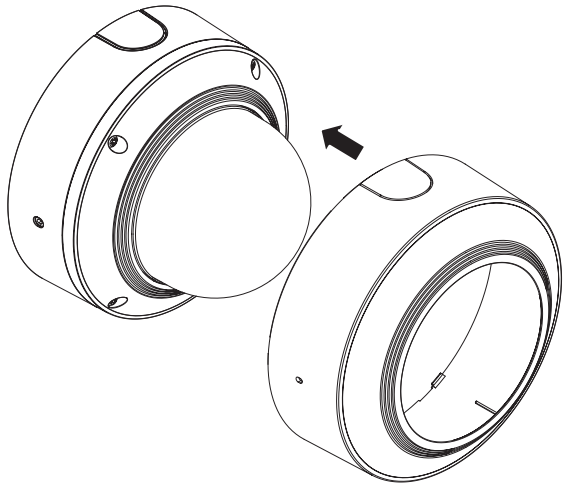
**1.** Установите купол.

- Плотно затяните крепежные винты, чтобы влага не попадала внутрь.

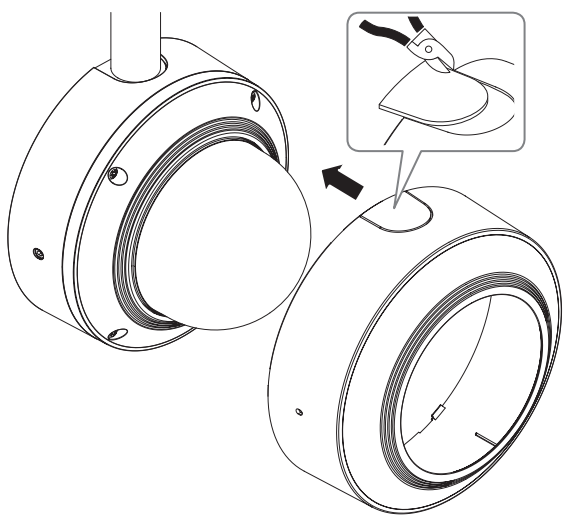



## Установка/удаление кожуха

**1.** Установите кожух, совместив заглушку с заглушкой отверстия трубы на корпусе.

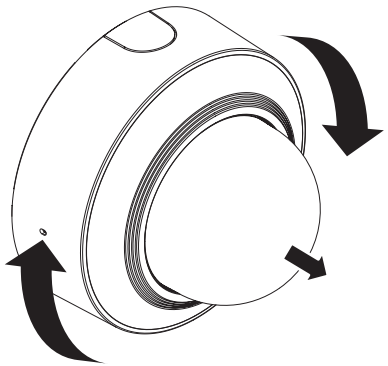


**2.** Если камера подключается с использованием трубы, удалите заглушку с кожуха перед установкой.

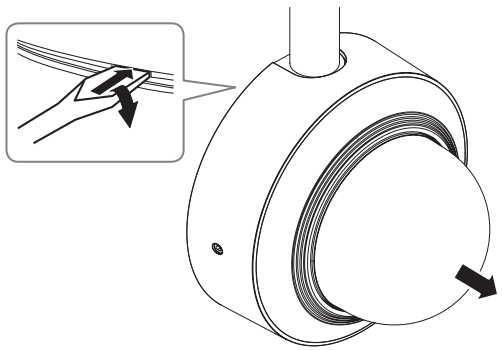


**3.** Чтобы снять кожух, потяните его, поворачивая по часовой стрелке, как показано на рисунке.

- Повторная установка и удаление кожуха могут привести к его повреждению.
- Чрезмерные усилия при установке и удалении кожуха могут привести к появлению царапин на устройстве.



- Если подсоединена труба, отсоедините ее с помощью подходящего инструмента.

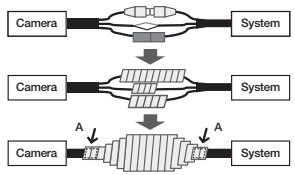


### Наружный монтаж

При монтаже этого устройства вне здания, пожалуйста, обеспечьте его водонепроницаемость с помощью водонепроницаемой ленты бутилкаучука (ее можно купить в магазине) так, чтобы вода не протекла в щель кабеля, выведенного наружу.

**1.** Подсоедините силовой кабель, кабели ввода/вывода, соединителя и кабели локальной сети передачи данных.

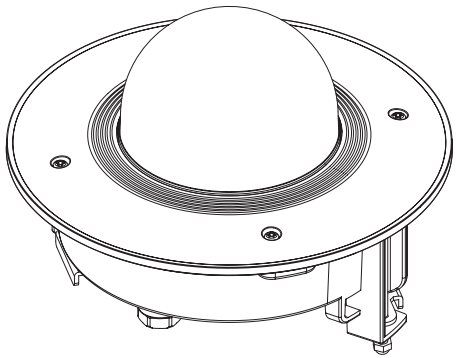
**2.** Оберните черный кабельный кожух (Зона A) и зону присоединения кабеля водонепроницаемой лентой (бутилкаучук) так, чтобы лента бутилкаучука перекрывалась больше чем на половину.



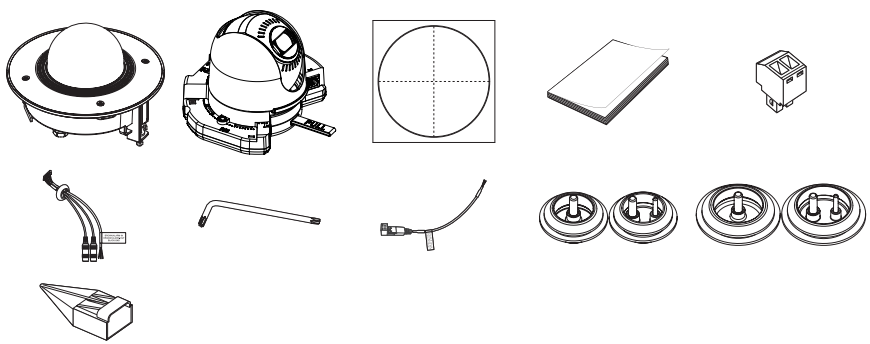

- Если не обеспечена надлежащая водонепроницаемость кабельного кожуха, это может стать причиной течи. Удостоверьтесь, что кабель обмотан толстым слоем ленты.
- Водонепроницаемая лента сделана из бутилкаучука, который может растягиваться по длине более чем в два раза.

## КОМПЛЕКТ ПОСТАВКИ

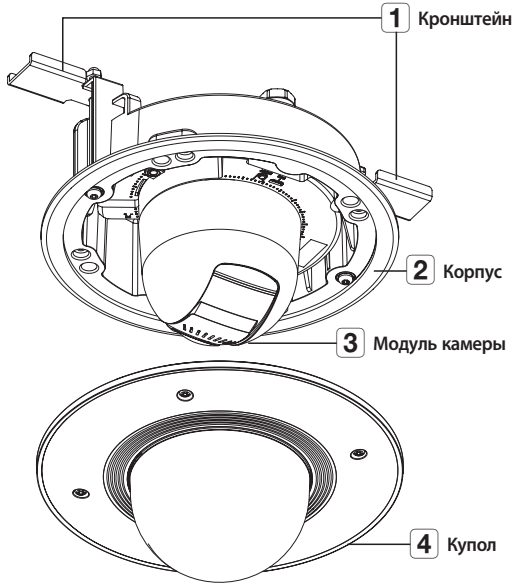
У изделий, продаваемых в разных странах, принадлежности могут отличаться.

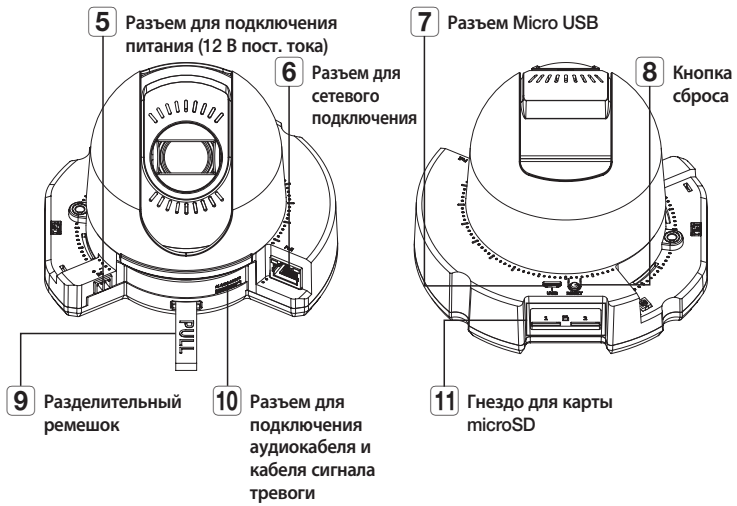


<XND-6081FZ/XND-8081FZ>



## ОБЩИЙ ОБЗОР



## УСТАНОВКА

- Эта камера водонепроницаема и соответствует стандарту IP52, однако штекер внешнего кабеля водонепроницаемым не является. Рекомендуется установить это устройство под карнизом во избежание выступания кабеля наружу.

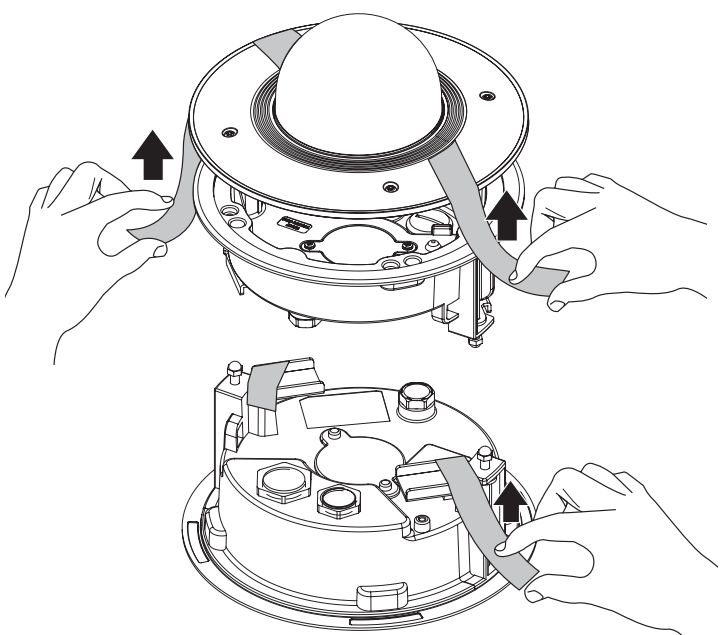
### Меры предосторожности, принимаемые перед установкой

Прежде чем устанавливать камеру, обязательно прочтите приведенные далее инструкции.

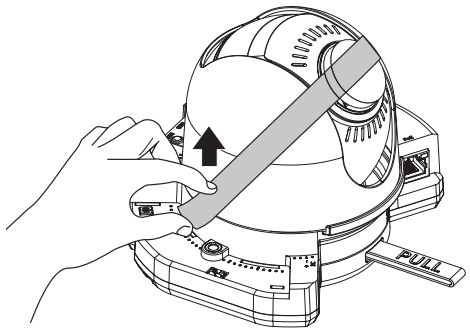
- Выберите место для установки, которое сможет выдержать вес, минимум в 5 раз превышающий вес самой камеры.
- Кабели с поврежденной или снятой изоляцией могут стать причиной повреждения устройства или возгорания.
- С целью предосторожности попросите посторонних лиц покинуть место установки. На всякий случай уберите все посторонние личные вещи.
- Если аппарат устанавливать с чрезмерным усилием, это может привести к повреждению камеры из-за неправильной работы.
  При сборке неподходящими инструментами с приложением усилий возможно повреждение аппарата.

### Удаление

**1.** Удалите ленту, фиксирующую корпус камеры.

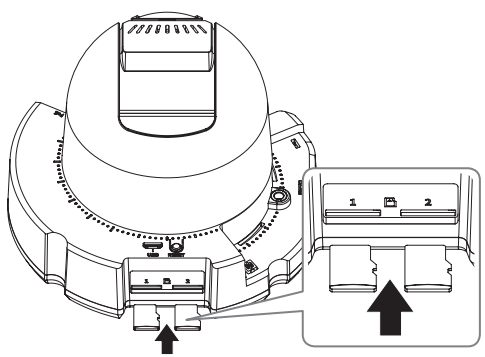


**2.** Удалите ленту с модуля камеры.




### Установка карты памяти Микро SD

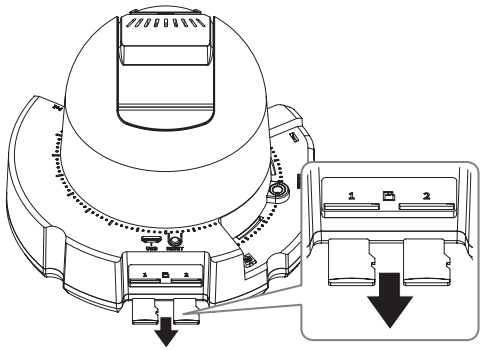
Вставьте карту microSD в соответствующее гнездо модуля камеры в направлении, указанном стрелкой.



- Карту microSD следует поместить в гнездо до установки камеры, когда она еще не подключена к источнику питания.
- Попытки неправильно вставить карту памяти microSD в гнездо могут привести к повреждению карты и всего устройства.
- Не рекомендуется вставлять или вынимать карту памяти Микро SD во время дождя или при высокой влажности.
- Перед установкой/извлечением карты памяти microSD убедитесь, что устройство находится на ровной поверхности, во избежание потери или падения каких-либо деталей.

## Извлечение карты памяти Микро SD

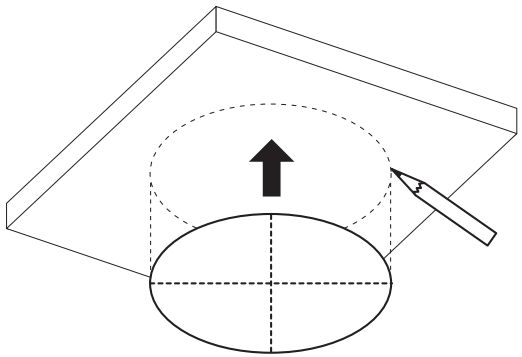
Мягко нажмите на выступающий конец карточки как показано на диаграмме, чтобы извлечь карточку из гнезда.

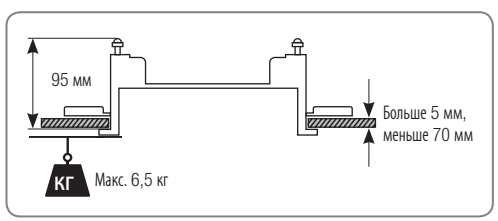


- Заметьте, что если во время извлечения сильно нажать на карту памяти Micro SD, а затем отпустить ее, она может выскочить.
- Перед извлечением карты памяти SD в меню <**Накопитель**>, установите устройство в состояние <**Выкл.**>, нажмите кнопку [**Применить**] и выключите камеру.
- Если Вы выключите камеру или извлечете из продукта карту памяти Микро SD, содержащую данные, то эти данные могут быть потеряны или повреждены.

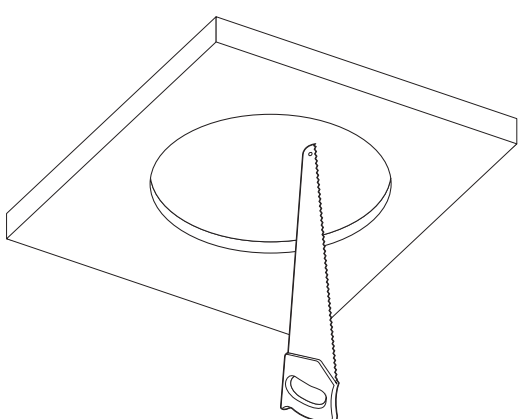
## Установка (корпус)

**1.** Закрепите шаблон установки на потолке и отметьте его расположение карандашом.





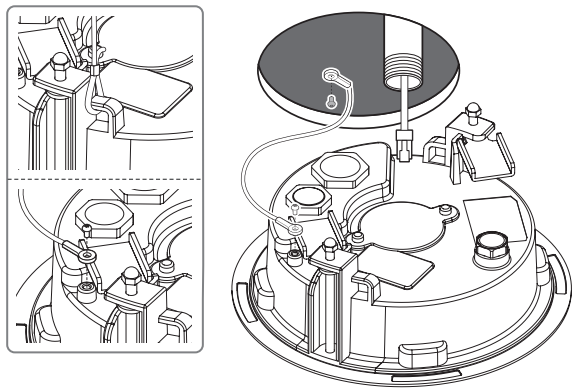

**2.** Закрепите шаблон установки и просверлите отверстия.



**3.** Закрепите страховочный трос.

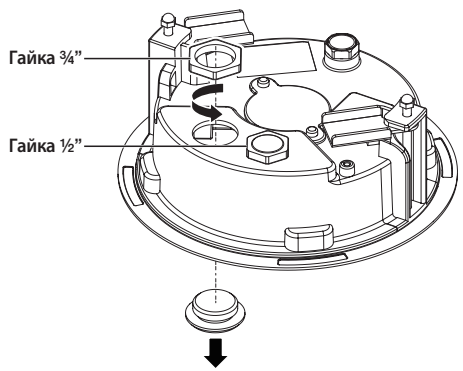
- Страховочный трос не входит в комплект поставки.

**например,**

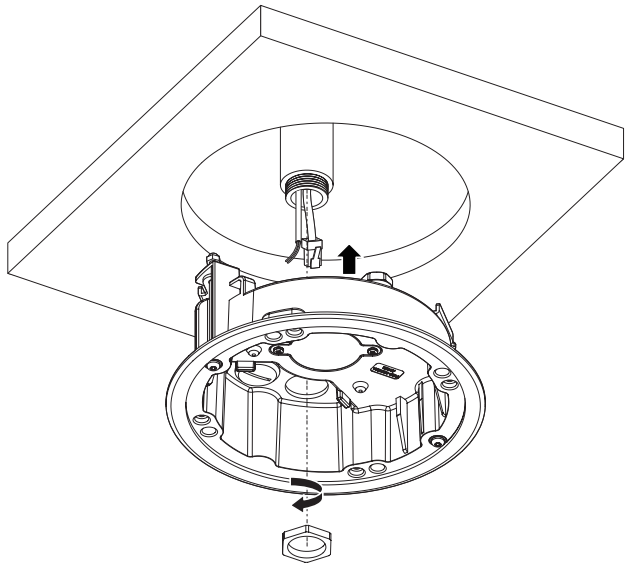


**[Использование трубы]**

**4-1.** Установите трубу в крепежное отверстие.




**4-2.** Пропустите необходимые кабели (LAN, питания, сигнала тревоги или аудиокабель) через трубу.



## Установка (корпус камеры)

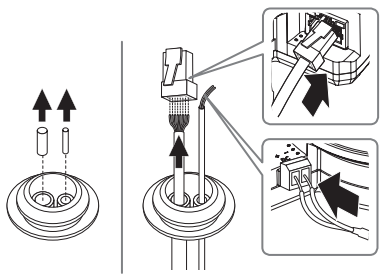
- Для подключения кабеля LAN используйте совместимый кабельный ввод.
  - Компоненты: используйте кабель диаметром от 5 до 8,5.

**[Установка кабеля LAN и кабеля питания]**

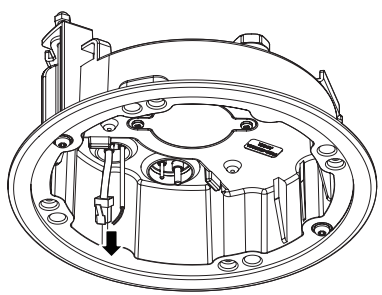
**1-1.** Извлеките выступающие части из кабельного ввода, который собираетесь использовать.

**1-2.** Протяните кабель LAN через большое отверстие кабельного ввода и подключите к разъему LAN.

**1-3.** При подключении питания: протяните кабель питания через маленькое отверстие кабельного ввода и подключите к клеммной колодке.



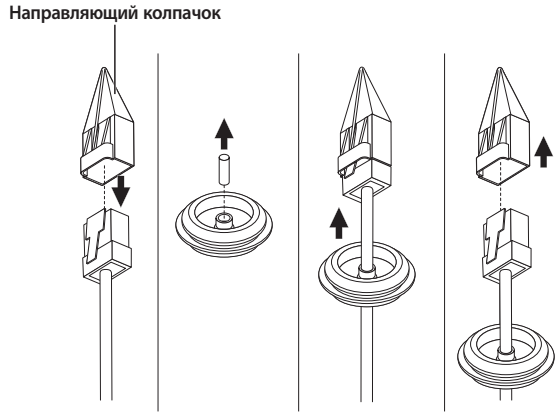
**1-4.** Закрепите кабельный ввод в корпусе.



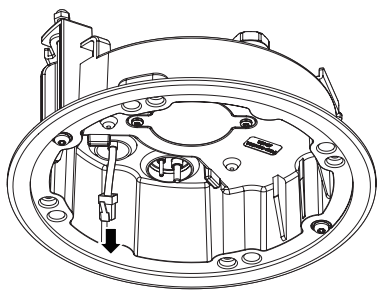
**[Установка кабеля LAN]**

**2-1.** Извлеките выступающую часть из кабельного ввода с одним отверстием, входящего в комплект поставки.

**2-2.** Пропустите кабель RJ45 через отверстие, используя направляющий колпачок.

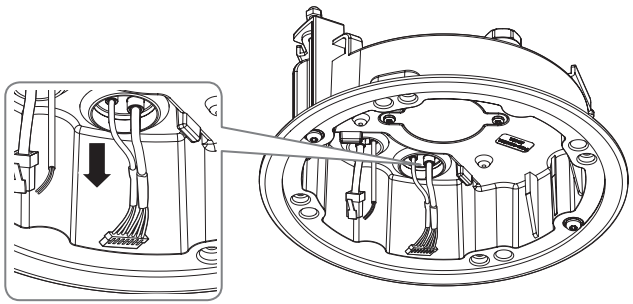



**2-3.** Закрепите кабельный ввод в корпусе.



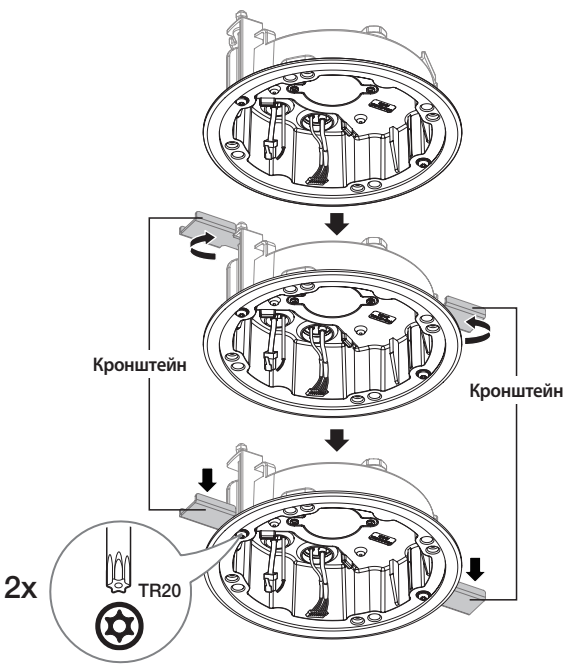
**[Установка аудиокабеля и кабеля сигнала тревоги]**

**3-1.** Закрепите кабельный ввод аудиокабеля и кабеля сигнала тревоги, входящих в комплект, в корпусе камеры.



**4.** Прикрепите корпус к потолку, затянув винты.

- Корпус крепится к потолку с помощью кронштейна.
- Убедитесь, что корпус надежно закреплен на потолке.

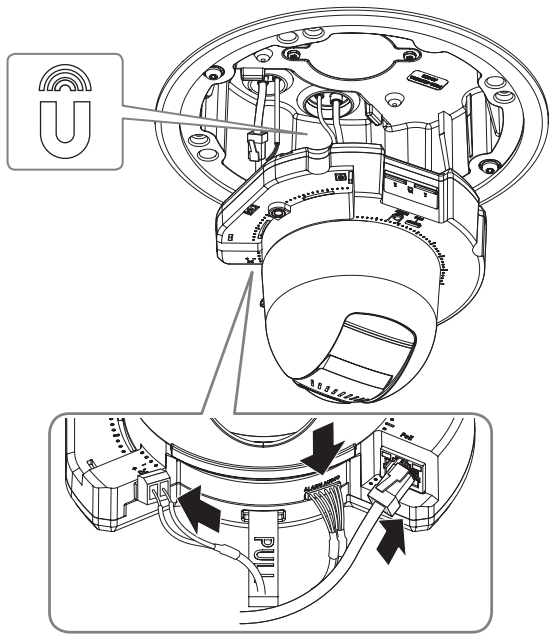



## Установка модуля камеры

**1.** Подключите кабели LAN, питания, сигнала тревоги и аудиокабель к разъемам на модуле камеры.

**2.** Закрепите модуль камеры в корпусе.

- В нижней части модуля находится магнит.
- Убедитесь, что между скрепляемыми поверхностями нет посторонних предметов.

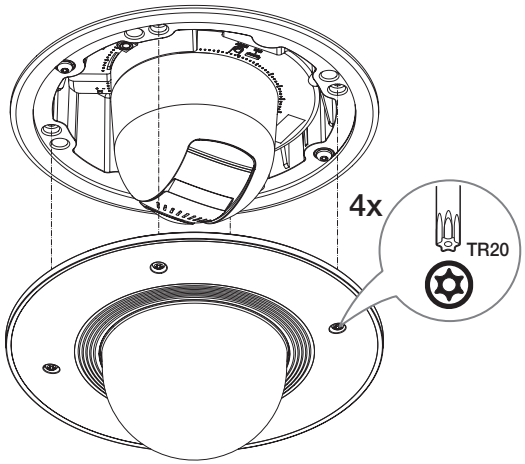


**3.** Поверните объектив в нужном направлении согласно инструкции в разделе «**Регулировка направления наблюдения камеры**» (стр. 33).

## Закрепление купола

**1.** Установите купол.

- Плотно затяните крепежные винты, чтобы влага не попадала внутрь.

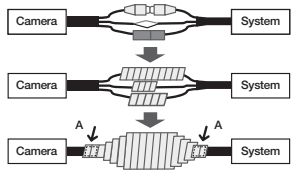



## Наружный монтаж

При монтаже этого устройства вне здания, пожалуйста, обеспечьте его водонепроницаемость с помощью водонепроницаемой ленты бутилкаучука (ее можно купить в магазине) так, чтобы вода не протекла в щель кабеля, выведенного наружу.

**1.** Подсоедините силовой кабель, кабели ввода/вывода, соединителя и кабели локальной сети передачи данных.

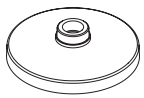
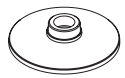
**2.** Оберните черный кабельный кожух (Зона A) и зону присоединения кабеля водонепроницаемой лентой (бутилкаучук) так, чтобы лента бутилкаучука перекрывалась больше чем на половину.

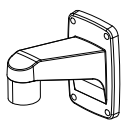
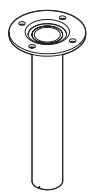


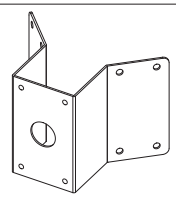
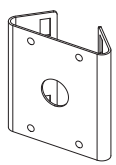

- Если не обеспечена надлежащая водонепроницаемость кабельного кожуха, это может стать причиной течи. Удостоверьтесь, что кабель обмотан толстым слоем ленты.
- Водонепроницаемая лента сделана из бутилкаучука, который может растягиваться по длине более чем в два раза.

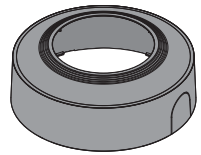
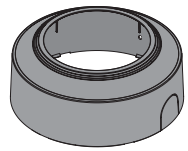
## ДОПОЛНИТЕЛЬНЫЕ ПРИНАДЛЕЖНОСТИ ДЛЯ УСТАНОВКИ

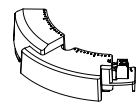
Вы можете приобрести дополнительные принадлежности.

| | Подвесное крепление | Подвесное крепление |
|---|---|---|
| Наименование модели | SBP-187HMW | SBP-167HMW |
| |  |  |
| Совместимая модель | XNV-6081Z/8081Z | XND-6081VZ/8081VZ |

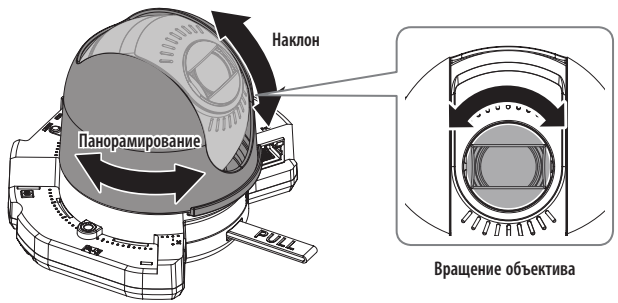
| | Настенное крепление | Потолочное крепление |
|---|---|---|
| Наименование модели | SBP-300WMW1 | SBP-300CMW |
| |  |  |
| Совместимая модель | SBP-180HMW/160HMW | SBP-180HMW/160HMW |

| | Угловое крепление | Крепление к столбу |
|---|---|---|
| Наименование модели | SBP-300KMW | SBP-300PMW |
| |  |  |
| Совместимая модель | SBP-300WMW1 | SBP-300WMW1 |

| | Кожух | Кожух |
|---|---|---|
| Наименование модели | SBC-180B (Черный) | SBC-160B (Черный) |
| |  |  |
| Совместимая модель | XNV-6081Z/8081Z | XND-6081VZ/8081VZ |

| | Блок питания переменного тока (24 В) |
|---|---|
| Наименование модели | SPC-100AC |
| |  |
| Совместимая модель | XNV-6081Z/8081Z |

### Регулировка направления наблюдения камеры




▪ **Настройка направления мониторинга**

Направление камеры можно регулировать, только когда она закреплена на потолке.
В этом случае поворот основного корпуса камеры в левом или правом направлении называется PAN (панорамированием) , а регулировка угла установки камеры называется TILT (наклон).

- Эффективный диапазон панорамирования составляет ±175 градусов.
- Максимальная сумма углов обзора — около 175°.
- Эффективный диапазон наклона - 85 градусов.

▪ Угол наклона более 75° может привести к частичной блокировке обзора или искажению изображения в отдельной области экрана в зависимости от показателя увеличения.

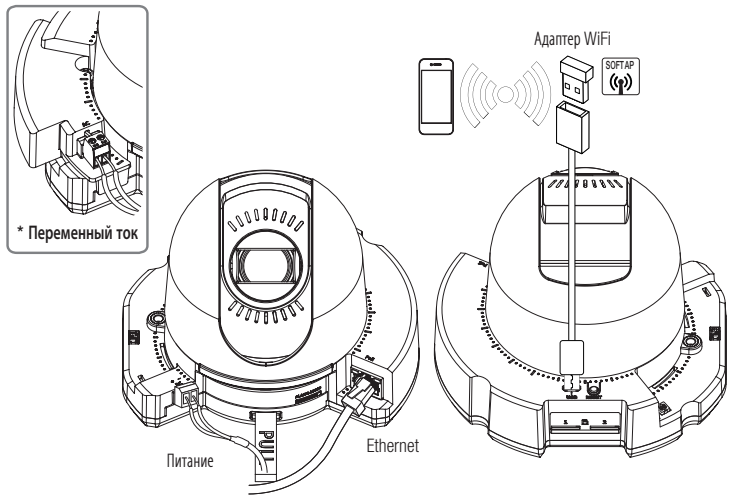
▪ Не пытайтесь с силой повернуть объектив, предназначенный для фокусировки и масштабирования, или надавить на него. Это может привести к поломке мотора и неправильной фокусировке.

▪ **Способы регулировки**

**1.** Настройте угол панорамирования с учетом направления обзора.
**2.** Настройте горизонтальный угол так, чтобы при вращении изображение не переворачивалось.
**3.** Настройте угол наклона в направлении области обзора.

▪ Не пытайтесь сделать это вручную.
Чтобы настроить направление обзора, воспользуйтесь средством Web Viewer.

## ПОДКЛЮЧЕНИЕ К ДРУГОМУ УСТРОЙСТВУ




▪ Выходной разъем Микро USB устройства предназначен для облегчения монтажа и не рекомендуется использовать его для целей мониторинга.

## Подключение к сети Ethernet

Подключите кабель Ethernet к локальной сети или к Интернету.

## Подключение WiFi

### Настройка камеры

**1.** Подключите переходник OTG (5-контактный) и аппаратный ключ WiFi к соединителю micro USB.

### Настройка смартфона

**1.** Установите приложение для установки Wisenet.

**2.** После включения Wi-Fi выберите SSID камеры.

**3.** Запустите приложение для установки Wisenet.

**4.** После входа в камеру будет подключено видео

- Во время первоначального подключения без входа в систему видео будет воспроизводиться.

**5.** Угол обзора камеры можно регулировать во время просмотра видео на смартфоне.

### Рекомендуемый производитель адаптеров

| Производитель | Модель |
|---|---|
| NETIS | WF2123 n300 |
| EDIMAX | EW-7811Un |
| IP Time | N100mini |
| TP-LINK | TL-WN823N V1 |
| ASUS | USB-N13 |
| NETGEAR | WNA3100M |

## Источник питания

Подключите все провода кабеля питания (+, –) к соответствующему порту камеры с помощью отвертки.

- Если источники питания PoE и постоянного тока (12 В) включены одновременно, питание устройства будет осуществляться от каждого из них.
  - Также для подачи питания к видеокамере используется маршрутизатор с поддержкой PoE.
  - Применяемая технология PoE должна быть совместима с протоколами IEEE 802.3af
- Подключая кабель питания, будьте очень внимательны, чтобы не перепутать полярность.
- Можно подключить камеру к источнику питания переменного тока. Для этого необходимо купить модуль переменного тока (SPC-100AC).
  - Модели: XNV-6081Z/XNV-8081Z
  - Если источники питания PoE и переменного тока (24 В) включены одновременно, питание устройства будет осуществляться от внешнего источника (24 В перемен. тока).
  - Возможно неполярное подключение модуля переменного тока (24 В).
- Если необходимо подключить внешнее устройство, перед началом работы его необходимо выключить.
- Сначала соедините устройство и шнур адаптера питания, а затем включите кабель питания в стенную розетку.

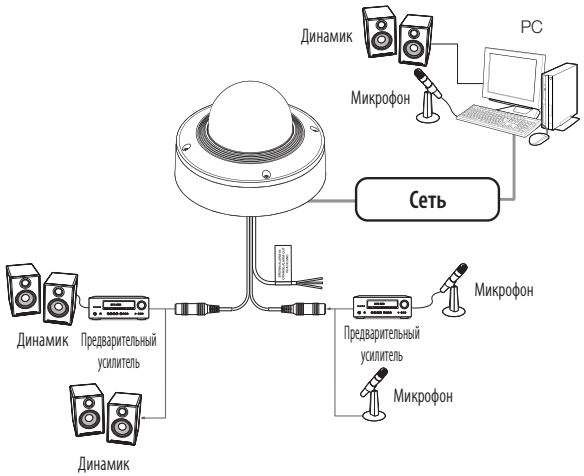
## Спецификация на силовой кабель для каждой модели

| Модели | Входная мощность | Тип проводов (AWG) | Длина кабеля (макс.) |
|---|---|---|---|
| XND-6081FZ/VZ<br>XND-8081FZ/VZ | постоянного тока (12 В) | #18 | 27м |
| | | #20 | 17м |
| XNV-6081Z/<br>XNV-8081Z | постоянного тока (12 В) | #18 | 24м |
| | | #20 | 15м |
| | переменного тока (24 В) | #18 | 40м |
| | | #20 | 28м |

## Спецификация сетевого кабеля

| Пункт | Содержание | Примечание |
|---|---|---|
| Разъем | RJ45 (10/100BASE-T) | |
| Ethernet | 10/100BASE-T | |
| Кабель | UTP категории 5e | |
| Макс. расстояние | 100 м | |
| Поддержка питания по Ethernet | IEEE 802.3af | |

## Подсоединение звукового ввода/вывода




1. Подключите микрофон к порту AUDIO IN камеры или соедините порты AUDIO IN и LINE OUT усилителя, к которому подсоединен микрофон.

   ▪ Можно использовать внутренний микрофон камеры без подключения внешнего микрофона (только для моделей XND-6081VZ/XND-8081VZ).

2. Подключите динамик к порту AUDIO OUT камеры или соедините порты AUDIO OUT и LINE OUT усилителя, к которому подсоединен динамик.
3. Проверьте характеристики для аудиовхода.

- **Аудиокодек**
  - Аудио вход : G.711 PCM (скорость передачи: 64кбит/с / частота дискретизации: 8кГц), G.726 АДИКДМ (скорость передачи: 16кбит/с , 24кбит/с , 32кбит/с , 40кбит/с / частота дискретизации: 8кГц), AAC (скорость передачи: 48кбит/с / частота дискретизации: 16кГц)
  - Аудио выход : G.711 PCM (скорость передачи: 64кбит/с / частота дискретизации: 8кГц)
- **Дуплексное аудио**
- **Звуковой вход (XND-6081VZ/XND-8081VZ)** : Выбираемый (микрофон/линейный вход/встроенный микрофон), поддерживаемое напряжение: 2,5 В постоянного тока (4 мА), входное сопротивление: 2 кОм
- **Звуковой вход (XND-6081FZ/XND-8081FZ/XNV-6081Z/XNV-8081Z)** : Выбираемый (микрофон/линейный вход), поддерживаемое напряжение: 2,5 В постоянного тока (4 мА), входное сопротивление: 2 кОм
- **Звуковой выход** : Линейный выход (монофонический штекер 3,5 мм), максимальный сигнал: 1 В (действующее значение)
- **Сопротивление выходного канала Line out :** 600 Ом

▪ При выборе внешнего микрофона в качестве источника звука в разделе <**Видео и аудио**> — <**Настройка аудио**> в Web Viewer рекомендуется указать следующие характеристики.

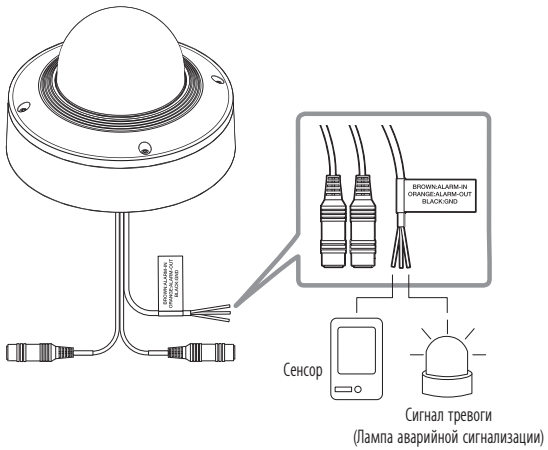
- Частотный диапазон: 40–16 000 Гц
- Импеданс: 1500 0м
- Чувствительность: –40±3 дБ (7,1–14,1 мВ)

▪ Любой из следующих пунктов может привести к снижению эффективности или неправильной работе системы классификации звука.

- Если звуки выстрелов доносятся продолжительное время с небольшими интервалами (например, звуки автомата), а не однократно.
- Если шум слишком громкий и необходимо выделить конкретный звук.
- Если одновременно зарегистрировано два и более звука.
- Если функция классификации звуков запущена во время работы функции удаления шума в тихом месте.
- Если источник хлопков или крика находится слишком близко к камере (в пределах 1 м).
- Если внезапно доносится громкий звук, не относящийся ни к одной категории (звук самолета, сирены и пр.).
- Если внешний микрофон не соответствует рекомендуемым характеристикам.

### Подключение к блоку портов ввода-вывода

Подсоедините кабель ввода/вывода сигнала тревоги к соответствующему порту платы.



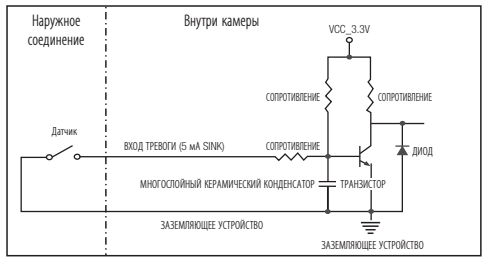

- ALARM-IN : Используется для подключения входного датчика тревожной сигнализации.
- ALARM-OUT : Используется для передачи выходных сигналы тревоги.
- GND : Общий порт для ввода/вывода тревожной сигнализации.

- Если устройства (например, проблесковый световой маяк или сирена), превышающие допустимый уровень напряжение и тока, указанный в технических спецификациях, подсоединяются при помощи метода открытого коллектора, это может привести к сбою. При подключении устройств, напряжение и ток которых превышают значения, указанные в спецификации, см. Раздел «**Монтажная диаграмма выхода тревоги**». (Стр. 36)

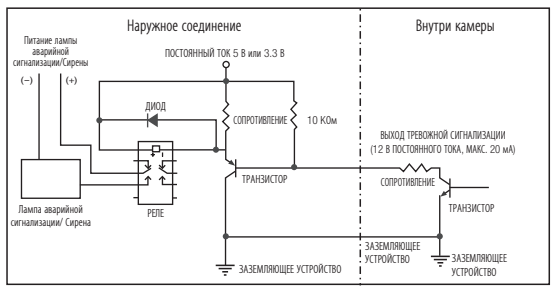
### Подключение к внешнему датчику

Подсоедините один провод двухпроводного кабеля датчика к порту [**ALARM IN**], а другой провод - к порту [**GND**].

### Монтажная схема входа тревоги




### Монтажная диаграмма выхода тревоги

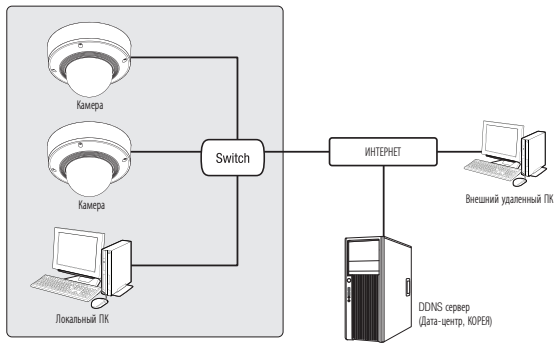


Можно выставить сетевые настройки согласно сетевой конфигурации.

## ПОДКЛЮЧЕНИЕ КАМЕРЫ НАПРЯМУЮ К ЛОКАЛЬНОЙ СЕТИ

### Подключение к камере через локальный ПК в локальной сети

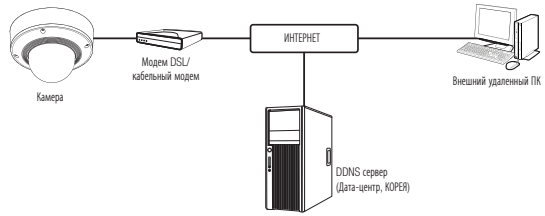
1. Запустите Интернет-браузер на локальном ПК.
2. Введите адрес IP-роутера в адресной строке браузера.




**<Локальная сеть>**

- Удаленный ПК во внешней сети или в Интернете не может подключиться к камере, установленной в интранет, если не задана правильная переадресация портов или установлен файрвол.
  В этом случае обратитесь к системному администратору для устранения проблемы.
- Согласно заводским настройкам по умолчанию, IP-адрес назначается сервером DHCP автоматически. Если сервер DHCP отсутствует, будет задан следующий IP-адрес: 192.168.1.100.
  Чтобы изменить IP-адрес, нужно использовать Device Manager.
  Для получения дополнительной информации об использовании Device Manager см. раздел «**Использование Device Manager**». (Стр. 38)

## ПРЯМОЕ ПОДКЛЮЧЕНИЕ КАМЕРЫ К МОДЕМУ DSL/КАБЕЛЬНОМУ МОДЕМУ С ПОДДЕРЖКОЙ ПРОТОКОЛА DHCP




1. Подсоедините напрямую ПК пользователя с сетевой камерой.
2. Запустите Device Manager и измените IP-адрес камеры, чтобы можно было для подключения к Интернету использовать веб-браузер вашего компьютера.
3. Установите подключение к интерактивной программе просмотра в веб-браузере.
4. Перейдите на страницу [**Настройка**].
5. Перейдите на страницу [**Сеть**] - [**DDNS**] и настройте параметры DDNS.
6. Перейдите по меню [**Basic**] - [**IP & Порт**] и задайте тип IP для [**DHCP**].
7. Подсоедините камеру, отключенную от ПК, непосредственно к модему.
8. Перезапустите камеру.

- За информацией об установке DDNS обратитесь к онлайновой справке программы Web Viewer.
- За информацией о задании формата IP-адреса обратитесь к онлайновой справке программы Web Viewer.

## ИСПОЛЬЗОВАНИЕ DEVICE MANAGER

- Программу Device Manager можно загрузить с веб-сайта Hanwha Vision через меню <**Служба поддержки**> – <**Online Tool**>. (https://www.HanwhaVision.com)
- Дополнительные инструкции по Device Manager можно найти в меню <**Справка**> главной страницы.

## АВТОМАТИЧЕСКИЙ ПОИСК КАМЕРЫ

Если камера подключена к той же сети, что и ПК, на котором установлен Device Manager, можно найти такую сетевую камеру с помощью функции поиска.

1. Нажмите <**Search (Поиск)**> на главной странице Device Manager.
2. В открывшемся списке выберите нужную камеру.
   - Проверьте MAC-адрес на наклейке, прикрепленной к камере.

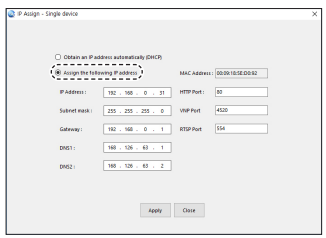
## НАСТРОЙКА IP-АДРЕСА

Чтобы изменить сетевые настройки камеры, в поле <**Status (Состояние)**> должен отображаться значок <**Login OK (Вход OK)**>. Чтобы войти ы систему, на главной странице нажмите <**Authentication (Аутентификация)**>.

### Настройка статического IP

Вручную ведите IP-адрес и информацию о порте.

1. Выберите из списка камеру, у которой нужно изменить параметры IP.
2. Нажмите кнопку <**IP Assign (Назначить IP)**> на главной странице Device Manager.
3. Выберите <**Assign the following IP address (Назначить следующий IP-адрес)**>.
   - В данных параметров IP камеры будут отображаться введенные значения.
4. Заполните категории IP-адреса и порта.



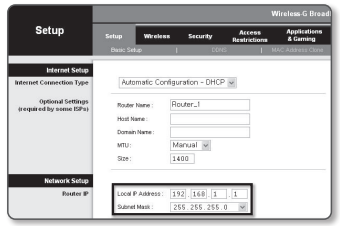

**В случае отсутствияШирокополосный маршрутизатор**

Попросите сетевого администратора выдать вам значения <**IP Address (IP-адрес)**>, <**Subnet Mask (Маска подсети)**>, <**Gateway (Шлюз)**>.

- HTTP Port : Используется для получения доступа к камере через веб-обозреватель. Значение по умолчанию - 80.
- VNP Port : используется для управления передачей видеосигнала. Значение по умолчанию - 4520.
- RTSP Port: Порт, который управляет потоковой передачей в реальном времени. По умолчанию установлено значение 554.

**В случае использованияШирокополосный маршрутизатор**

- IP Address : введите адрес, который соответствует IP-диапазону, заданному Широкополосный маршрутизатор.
  пр) 192.168.1.2~254, 192.168.0.2~254,
  192.168.XXX.2~254
- Subnet Mask : параметр <**Subnet Mask**> Широкополосный маршрутизатор соответствует параметру <**Subnet Mask**> камеры.
- Gateway : параметр <**Local IP Address**> Широкополосный маршрутизатор соответствует параметру <**Gateway**> камеры.




- Параметры могут различаться в зависимости от модели Широкополосный маршрутизатор.
  Для получения дополнительных сведений см. руководство пользователя соответствующего маршрутизатора.
- Дополнительную информацию о переадресации портов на широкополосном маршрутизаторе см. в разделе "**Настройка Переадресации Диапазона Портов (Распределение Портов)**". (Стр. 40)

**Если к Широкополосный маршрутизатор подключено несколько камер**

Настройте параметры, связанные с IP-адресом и портами, в соответствии друг с другом.

пр)

| Категория | | Камера №1 | Камера №2 |
|---|---|---|---|
| **Настройки, связанные с IP** | IP Address<br>Subnet Mask<br>Gateway | 192.168.1.100<br>255.255.255.0<br>192.168.1.1 | 192.168.1.101<br>255.255.255.0<br>192.168.1.1 |
| **Настройки, связанные с портами** | Порт HTTP<br>Порт VNP<br>Порт RTSP | 8080<br>4520<br>554 | 8081<br>4521<br>555 |

- Если для параметра <**HTTP Port**> выбрано значение свыше 80, необходимо указать номер <**Port**> в адресной строке веб-обозревателя, прежде чем получить доступ к камере.
  пр) http://IP-адрес : Порт HTTP
  http://192.168.1.100:8080

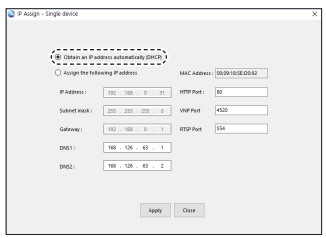
5. Нажмите кнопку [**Применить**].
6. Если появится сообщение об успешной настройке, нажмите [**OK**].

### Настройка динамического IP-адреса

Получите IP-адрес от DHCP

- Примеры динамического IP-окружения
  - Сервер DHCP назначает IP-адрес Широкополосный маршрутизатор с подключенными камерами.
  - Прямое подключение камеры к модему с помощью протоколов DHCP
  - Внутренний сервер DHCP назначает IP-адреса по локальной сети.

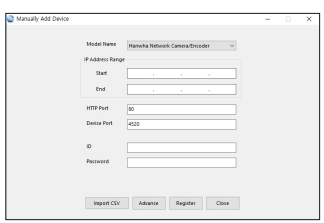
1. Выберите из списка камеру, у которой нужно изменить параметры IP.
2. Нажмите кнопку <**IP Assign (Назначить IP)**> на главной странице Device Manager.
3. Выберите <**Obtain an IP address automatically (DHCP) (Получить IP-адрес автоматически (DHCP))**>.
4. Нажмите кнопку [**Apply (Применить)**].
5. Если появится сообщение об успешной настройке, нажмите [**OK**].




## РЕГИСТРАЦИЯ КАМЕРЫ ВРУЧНУЮ

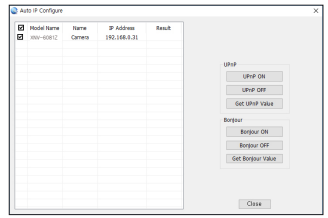
Если не удается найти камеру с помощью функции поиска (если камера подключена к внешней сети), ее можно зарегистрировать удаленно, введя ее параметры IP вручную.

1. На главной странице Device Manager нажмите <**Add Devices (Добавить устройства)**> – <**Manually Add Device (Добавить устройство вручную)**>.
2. Введите нужный диапазон IP-адресов.
3. Выберите <**Model Name (имя модели)**> камеры, которую нужно зарегистрировать, и введите данные о порте HTTP, порте VNP, идентификатор и пароль.
4. Нажмите кнопку [**Register (Зарегистрировать)**].
5. Проверьте, зарегистрировалась ли камера.
   - Проверьте MAC-адрес на наклейке, прикрепленной к камере.




## АВТОМАТИЧЕСКАЯ НАСТРОЙКА IP

1. Выберите из списка камеру, для которой необходимо автоматически настроить параметры IP.
2. На главной странице Device Manager нажмите < **+** >.
   - Появится меню настроек оборудования.
3. Выберете в меню <**Auto IP Configure (Автоматическая настройка IP)**>.
4. Нажмите кнопку [**Close (Закрыть)**].

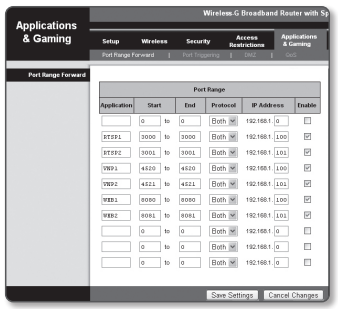


## НАСТРОЙКА ПЕРЕАДРЕСАЦИИ ДИАПАЗОНА ПОРТОВ (РАСПРЕДЕЛЕНИЕ ПОРТОВ)

После установки Широкополосный маршрутизатор с подключенными камерами необходимо настроить для него переадресацию диапазона портов, чтобы с удаленного компьютера можно было получить доступ к подключенным камерам.

### Переадресации диапазона портов вручную

1. В меню настроек Широкополосный маршрутизатор выберите <**Applications & Gaming**> - <**Port Range Forward**>.
   Сведения о настройке переадресации диапазона портов для Широкополосный маршрутизатор стороннего производителя см. в его руководстве пользователя.
2. Выберите <**TCP**> и <**UDP Port**> для каждой камеры, подключенной к Широкополосный маршрутизатор. Номер каждого из портов, конфигурируемых в IP-маршрутизаторе, следует устанавливать в соответствии с номером, назначенным в пункте меню <**Настройка**> - <**Basic**> - <**IP & Порт**> в Web viewer камеры.
3. Затем нажмите кнопку [**Save Settings**].
   Заданные настройки будут сохранены.

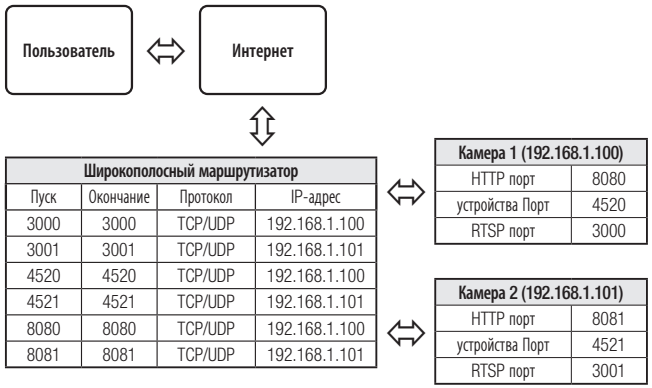



- Настройка переадресации портов является примером настройки IP-маршрутизатора CISCO.
- Параметры могут различаться в зависимости от модели Широкополосный маршрутизатор.
  Для получения дополнительных сведений см. руководство пользователя соответствующего маршрутизатора.

### Настройка переадресации диапазона портов для нескольких сетевых камер

- Правило переадресации порта для Широкополосный маршрутизатор можно задать с веб-страницы его настроек.
- С помощью экрана настройки камеры можно изменить все порты.

Когда камера 1 и камера 2 подключены к маршрутизатору:




| Широкополосный маршрутизатор | | | |
|---|---|---|---|
| Пуск | Окончание | Протокол | IP-адрес |
| 3000 | 3000 | TCP/UDP | 192.168.1.100 |
| 3001 | 3001 | TCP/UDP | 192.168.1.101 |
| 4520 | 4520 | TCP/UDP | 192.168.1.100 |
| 4521 | 4521 | TCP/UDP | 192.168.1.101 |
| 8080 | 8080 | TCP/UDP | 192.168.1.100 |
| 8081 | 8081 | TCP/UDP | 192.168.1.101 |

| Камера 1 (192.168.1.100) | |
|---|---|
| HTTP порт | 8080 |
| устройства Порт | 4520 |
| RTSP порт | 3000 |

| Камера 2 (192.168.1.101) | |
|---|---|
| HTTP порт | 8081 |
| устройства Порт | 4521 |
| RTSP порт | 3001 |

- Переадресация портов выполняется без дополнительной настройки роутера, если роутер поддерживает функцию UPnP (включи и работай).
  После соединения с сетевой камерой установите из меню <**Быстрое соединение**> флажок <**DDNS**> в пункте "**Настройки** -> **Сеть** -> **DDNS**".

## ПОДКЛЮЧЕНИЕ К КАМЕРЕ С ЛОКАЛЬНОГО КОМПЬЮТЕРА ОБЩЕГО ДОСТУПА

1. Запустите Device Manager.
   Она выполнить поиск подключенных камер и составит список найденных.
2. Дважды щелкните нужную камеру, чтобы получить к ней доступ.
   Запустится веб-обозреватель и подключится к выбранной камере.

▪ Получить доступ к найденной камере можно и другим способом: просто введите IP-адрес камеры в адресную строку веб-обозревателя.

## ПОДКЛЮЧЕНИЕ К КАМЕРЕ С УДАЛЕННОГО КОМПЬЮТЕРА ЧЕРЕЗ ИНТЕРНЕТ

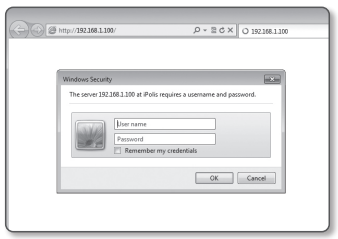
На удаленном компьютере, который не входит в сетевой кластер широкополосного маршрутизатора, пользователи не могут получить доступ к камерам в сети широкополосного маршрутизатора, используя URL-адрес DDNS конкретной камеры.

1. Прежде чем получить доступ к камере в сети Широкополосный маршрутизатор, необходимо настроить переадресацию диапазона портов для Широкополосный маршрутизатор.
2. На удаленном компьютере запустите веб-обозреватель и введите DDNS URL-адрес камеры или IP-адрес Широкополосный маршрутизатор в адресную строку.
   пр) http://ddns.hanwha-security.com/ID

▪ Чтобы использовать DDNS, зарегистрируйтесь на домашней странице DDNS (http://ddns.hanwha-security.com) и зарегистрируйте продукт через меню [**Мой DDNS**]> [**Зарегистрировать продукт**].

## ПОДКЛЮЧЕНИЕ К КАМЕРЕ

### Обычный порядок действий




1. Запустите веб-обозреватель.
2. Введите IP-адрес камеры в адресную строку.
   пр) • IP-адрес (IPv4) : 192.168.1.100
   → http://192.168.1.100
   - появится диалоговое окно входа.
   • IP-адрес (IPv6) : 2001:230:abcd: ffff:0000:0000:ffff:1111
   → http://[2001:230:abcd:ffff:0000:0000:ffff:1111] - появится диалоговое окно входа.

### Номер порта HTTP отличен от 80

1. Запустите веб-обозреватель.
2. Введите IP-адрес и номер порта HTTP камеры в адресную строку.
   пр) IP-адрес: 192.168.1.100: номер порта HTTP(8080)
   → http://192.168.1.100:8080 - появится диалоговое окно входа.

### Использование URL-адреса

1. Запустите веб-обозреватель.
2. Введите DDNS URL-адрес камеры в адресную строку.
   пр) URL-адрес: http://ddns.hanwha-security.com/ID
   - появится диалоговое окно входа.

■ Сетевое подключение выключено только в среде LAN.

### Подключение через UPnP

1. Запустите систему клиента или операционную систму в подтверждение UPnP протокола.
2. Кликните имя камеры для поиска.
   В операционной системе Windows кликните на имя камеры для поиска в меню сети.
   - Отобразится окно входа.

### Соединение через службу Bonjour

1. Запустите систему клиента или операционную систему в подтверждение Bonjour протокола.
2. Кликните имя камеры для поиска.
   В операционной системе Mac кликните имя камеры для поиска во вкладке Bonjour в браузере Safari.
   - Отобразится окно входа.

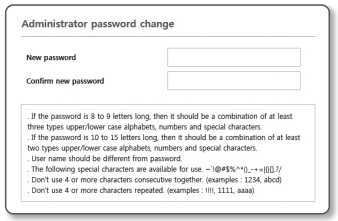
### Просмотр DDNS-адреса

Если камера подключена непосредственно к кабельному модему на основе DHCP или к модему DSL, то IP-адрес будет изменяться каждый раз при соединении с Интернет-провайдером (компанией, с которой у вас подписка).
В этом случае вам не будет сообщаться об изменении IP-адреса, выполненном DDNS.

Если вы зарегистрируете устройство с динамическим IP-адресом на сервере DDNS, то во время доступа к этому устройству вы всегда можете проверить, как изменился его IP-адрес.
Чтобы зарегистрировать устройство на сервере <**DDNS**>, посетите веб-сайт http://ddns.hanwha-security.com. Сначала зарегистрируйте камеру, а затем задайте <**Сеть**> - <**DDNS**> для <**DDNS**> в программе Web Viewer, а также укажите <**Код продукта**>, который использовался для регистрации DDNS.

## УСТАНОВКА ПАРОЛЯ

Когда доступ к продукту выполняется первый раз, необходимо зарегистрировать пароль входа в систему.

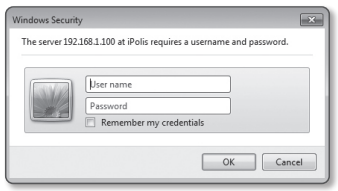



- Для нового пароля от 8 до 9 символов, необходимо использовать не менее 3 символов из числа следующих: строчные/прописные буквы, цифры и специальные символы. Для пароля от 10 до 15 символов необходимо использовать не менее 2 типов указанных символов.
  - Допускаются следующие специальные символы : ~`!@#$%^*()_-+=|{}[].?/
- Для лучшей защиты пароля не рекомендуется повторять одинаковые символы либо символы, последовательно расположенные на клавиатуре.
- При утрате пароля можно нажать кнопку [**RESET**] для инициализации продукта. Не теряйте пароль, сохраните его в записной книжке или запомните.

## ВХОД

При каждом доступе к камере будет появляться окно входа.
Укажите идентификатор пользователя и пароль для доступа к камере.

1. Введите "**admin**" в поле ввода <**User Name**>.
   Идентификатор администратора "**admin**" постоянный и не подлежит изменению.
2. Введите пароль в поле ввода <**Password**>.
3. Нажмите кнопку [**OK**].
   После входа в систему отобразится экран интерактивной программы просмотра.




- При доступе к камере через модуль Web viewer уделите внимание безопасности и проверьте, зашифрованы ли данные, содержащие изображение.

- Если установить флажок "**Remember my credentials**" во время ввода данных, то в следующий раз и далее вход в систему будет выполняться автоматически без запроса данных.
- Лучшее качество видео обеспечивается при размере экрана 100%. При уменьшении экрана изображение может быть обрезано по краям.

## НАСТРОЙКА WEB VIEWER

1. Щелкните по значку [**Настройка ( )**].
2. Откроется окно настроек.
3. Можно задать по локальной сети базовую информацию о камере, а также настройки видео, аудио, локальной сети, событий, анализа и системы.
4. Выберите <**Справка ( )**> для просмотра подробного описания каждой функции.

## ПОИСК И УСТРАНЕНИЕ НЕПОЛАДОК

| ПРОБЛЕМА | РЕШЕНИЕ |
|---|---|
| **Если пользователь Windows 10 получает доступ к Web viewer через Chrome или Firefox, громкость микрофона периодически изменяется.** | • Это происходит, когда для микрофона установлен драйвер Realtek. Установите в качестве драйвера микрофона драйвер Windows по умолчанию для звукового устройства с поддержкой High Definition Audio, либо драйвер стороннего поставщика. |
| **Каковы характеристики файлов WAVE, которые необходимы для воспроизведения звука в момент события?** | • Рекомендуемая частота дискретизации — 48 000 КГц.<br>• Рекомендуемая частота дискретизации (бит/с) — 8/16.<br>• Поддерживается только формат кодирования PCM. |
| **Если доступ производится через подключаемый программный модуль Free webviewer на Safari через HTTPS, видео не отображается.** | • При первоначальном доступе к https во всплывающем окне с предложением аутентификации выберите "Просмотр сертификата подлинности" и установите флажок "Всегда доверять при соединении по IP, назначенному программе веб-просмотра".<br>• Если модуль веб-просмотра по-прежнему не отображает видео после выбора "Далее" в окне сообщения внизу, намжите командную кнопку + Q, чтобы выйти из браузера Safari, вновь войдите в систему и следуйте процедуре, приведенной выше. |
| **Нет доступа к камере через веб-браузер.** | • Проверьте на правильность сетевые настройки камеры.<br>• Убедитесь в правильности подключения всех сетевых кабелей.<br>• Убедитесь в том, что камера получает динамический IP-адрес при использовании DHCP-технологии.<br>• Если камера подключена к Широкополосный маршрутизатор, убедитесь в том, что переадресация портов настроена правильно. |
| **Происходит разрыв соединения по время мониторинга видео в экране просмотра.** | • При любом изменении настроек камеры или сети происходит разрыв соединения с наблюдательными терминалами.<br>• Проверьте все сетевые соединения.<br>• Может произойти разрыв соединения при плохой связи, если камера подключена к PPPoE. |
| **Подключенная к сети камера не обнаружена в программе Device Manager.** | • Отключите файрвол на своем ПК и заново запустите поиск камеру. |
| **Картинки перекрываются.** | • Убедитесь в том, что две или более камеры не транслируют данные на один и тот же multicast-адрес. Картинки могут перекрываться, если один адрес используется несколькими камерами. |
| **Нет картинки.** | • Если задан метод передачи на группу адресов, убедитесь, что в локальной сети, к которой подключена камера, есть роутер, поддерживающий технологию multicast. |
| **Голос не записывается, даже если заданы настройки входа аудио.** | • Необходимо установить флажок <Аудио вход> в меню <Basic> - <Профиль видео>. |
| **<Детектор движения> в меню <Аналитика> установлено в <Активировать>, но уведомления по электронной почте не приходят, даже когда произошло событие аналитики.** | • Проверьте настройки в следующей последовательности:<br>A. Проверьте настройки параметра <Дата и время>.<br>B. Для параметра <Детектор движения> необходимо задать значение <Активировать>.<br>C. Проверьте, выбран ли в меню <Настройка событий> параметр <Настройка событий>. |
| **Сигнал тревоги не выводится на соответствующий порт даже при регистрации события анализа интеллектуального видео.** | • Проверьте настройки для выходных портов сигналов. |
| **Не удается записать данные на карту памяти Micro SD.** | • Проверьте, исправна ли карта памяти. |
| **Карта памяти Micro SD установлена, однако камера работает неверно.** | • Проверьте, в правильном ли направлении вставлена карта памяти. Возможность использования карт памяти, отформатированных на других устройствах, не гарантируется.<br>• Снова отформатируйте карту памяти в меню <Настройка> → <Событие> → <Накопитель>. |
| **Не удается произвести запись в NAS.** | • Убедитесь в том, что информация, зарегистрированная в NAS, указана верно. |
| **Это сообщение о том, что настройка NAS не удалась.** | • Убедитесь в том, что IP-адрес NAS введен правильно.<br>• Убедитесь в том, что ID/пароль NAS введены правильно.<br>• Убедитесь в том, что доступ к папке, установленной в качестве основной папки с использованием ID номера NAS, открыт.<br>• Убедитесь в том, что с элементов NAS SMB/CIFS сняты флажки (выделения).<br>• Убедитесь в том, что IP-адрес NAS и IP-адрес камеры имеют одинаковый формат.<br>Ex) Начальное значение маски подсети для NAS и камеры 255.255.255.0.<br>Если IP-адрес 192.168.20.32, то IP-адрес NAS должен быть в диапазоне 192.168.20.1~ 192.168.20.255.<br>• Проверьте, не осуществлялась ли попытка получения доступа под другим пользователем без форматирования основной папки (сохраненной или используемой).<br>• Убедитесь в том, что используется рекомендуемое оборудование NAS. |

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## GPL SW

| Component Name | License | URL |
|---|---|---|
| Base Kernel | GPL 2.0 | |
| Busybox | GPL 2.0 | http://www.busybox.net/downloads/snapshots |
| iproute2-4.3.0 | GPL 2.0 | |
| iptables-1.4.21 | GPL 2.0 | http://ftp.netfilter.org/pub/iptables |
| ethtool-4.2 | GPL 2.0 | |
| mtd-1.5.2 | GPL 2.0 | ftp://ftp.infradead.org/pub/mtd-utils |
| mii-diag-2.11 | GPL 2.0 | |
| rp-pppoe-3.11 | GPL 2.0 | http://www.roaringpenguin.com/pppoe/ |
| wpa_supplicant-2.5 | GPL 2.0 | |
| bash-4.3.30 | GPL 3.0 | |
| zeroconf | GPL 2.0 | |

## LGPL SW

| Component Name | License | URL |
|---|---|---|
| gLibc | LGPL 2.0 | |
| Inetutils | LGPL 3.0 | |
| neon-0.29.6 | LGPL 2.0 | http://www.webdav.org/neon/ |

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established by T-Engine Forum
on January 23, 2004
revised on June 17, 2004
revised on December 21, 2006
revised on March 24, 2009

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**10.** "Binary Code" means an executable code form which is created by compiling programs, which include all or part of the Source Code or the Modified Source Code.

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4. to distribute the Binary Code created from the Source Code provided by T-Engine Forum hereunder or from the Source Code modified in accordance with the provision of Article 4.3 (1) above.

**4.** In accordance with the license granted under Article 4.1 above, the System Developer may perform the following acts:

1. to perform any and all acts set forth in the Article 4.3 above.

2. to develop and manufacture the Embedded Product containing the Binary Code, and, whether with or without payment, provide the End User with the same and make the Binary Code available to the End User on the Embedded Product.

**5.** The Source Code User and the System Developer shall be obligated to give a notice that the Source Code is used, in such a way as separately specified by T-Engine Forum, when they use the Source Code or the Binary Code, or make the Binary Code available for the End User on the Embedded Product.

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**3.** The Distributor of Modification shall, prior to the distribution, inform T-Engine Forum of and register a name and description of the Modified Source Code in such a way as specified by T-Engine Forum.

**4.** The Distributor of Modification shall determine the name of the Modified Source Code subject to the rules separately established by T-Engine Forum and publish an appropriate notice as required by the rules on the Patch for Modification and the Modified Source Code.

**5.** The Distributor of Modification may distribute the Modified Source Code to a third party, whether with or without payment, provided that the Distributor of Modification shall take the necessary measures to prohibit the third party from making the re-Distribution of the Modified Source Code.

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**7.** The Distributor of Modification may perform the Vicarious Execution of Patch Processing for the System Developer.

**8.** The System Developer shall not distribute the Modified Source Code in further modified form to any third party as a stand-alone software product.

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**Article 6. Distribution and Registration of the Ported Source Code**

**1.** The Source Code User and the System Developer may, whether with or without charge, distribute to any third party only the following parts of the Ported Source Code on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware:

1. The Hardware-dependent Part and/or Compiler-dependent Part; provided that the Source Code User and the System Developer shall inform T-Engine Forum of, and T-Engine Forum may publish, a method for distributing said Part(s) to third parties.

2. The Header File; provided that the Header File shall be distributed together with the Binary Code of the Ported Source Code.

**2.** Any member of T-Engine Forum may request T-Engine Forum to register and distribute, as an original source code for T-Kernel, the Ported Source Code on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware.

**3.** Any member of T-Engine Forum who requests the distribution mentioned in the preceding paragraph shall accede to the following conditions:

1. The member shall confirm that the object hardware is the T-Engine Hardware or the Similar Hardware to T-Engine Hardware.

2. The member shall provide T-Engine Forum with a complete set of operational environment for the object hardware and T-Kernel free of charge when requesting the distribution.

3. The member shall submit test results of the Ported Source Code to T-Engine Forum when requesting the distribution.

**4.** In the event that T-Engine Forum accepts the request mentioned in Article 6.2, T-Engine Forum shall register and distribute the Ported Source Code as the Source Code for T-Kernel. Provided, however, that the Ported Source Code may be treated in the same way as the Modified Source Code until the time of registration hereunder.

**5.** The provision set forth in Article 3 shall apply to the Ported Source Code registered in accordance with this Article.

**Article 7. Use for Other Purpose**

**1.** Any use of the Source Code, the Modified Source Code or the Ported Source Code other than those stipulated in Articles 4, 5 and 6 shall be subject to the prior approval of T-Engine Forum.

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bzip2/libbzip2 version 1.0.5 of 10 December 2007

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Jean-loup Gailly Mark Adler

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

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