

WISeNeT

СЕТЕВАЯ КАМЕРА

Руководство пользователя

PNM-9320VQP

SLA-2M2400P/2M2800P/2M3600P/2M6000P/
2M1200P/5M3700P/5M4600P/5M7000P



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 загромождайте 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. Данное изделие предназначено для питания от утвержденных источников питания с маркировкой "Class 2" или "LPS" с номинальным выходом PoE , 1.5A. (PNM-9320VQP)
16. Если при установке изделия прилагать чрезмерные усилия, возможно повреждение с нарушением работы камеры.
Если с силой устанавливать устройство, пользуясь неподходящими инструментами, возможно повреждение устройства.
17. Не допускаются 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.
18. 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.
19. 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.
20. Установка или эксплуатация устройства в воде может привести к значительному повреждению изделия.



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 ВЕНТИЛЯЦИОННЫЕ 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.

Гарантия на механизмы панорамирования, наклона и увеличения, а также на контактное кольцо предоставляется на один год в условиях непрерывного использования.

ВНИМАНИЕ

	ВНИМАНИЕ ОПАСНОСТЬ ПОРАЖЕНИЯ ЭЛЕКТРИЧЕСКИМ ТОКОМ. НЕ ОТКРЫВАТЬ	
ВНИМАНИЕ : ВО ИЗБЕЖАНИЕ ПОРАЖЕНИЯ ЭЛЕКТРИЧЕСКИМ ТОКОМ, НЕ СНИМАЙТЕ ЗАДНЮЮ КРЫШКУ.ВНУТРИ НЕТ ДЕТАЛЕЙ, ОБСЛУЖИВАЕМЫХ ПОЛЬЗОВАТЕЛЕМ. ДЛЯ ТЕХНИЧЕСКОГО ОБСЛУЖИВАНИЯ ОБРАЩАЙТЕСЬ К КВАЛИФИЦИРОВАННОМУ СПЕЦИАЛИСТУ.		

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 (батареиный блок) чрезмерному нагреванию под воздействием солнечных лучей, огня и т.п.

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

Существует риск взрыва при замене батареи на батарею несоответствующего типа. Утилизируйте использованные батареи в соответствии с инструкциями.

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.

Выходной разъем CVBS устройства предназначен для облегчения монтажа и не рекомендуется использовать его для целей мониторинга.

К источнику входного питания может подсоединяться только одна камера.

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

Внимательно прочитайте приведенные ниже правила техники безопасности.

- К изделию подсоединен влагонепроницаемый компонент. Вследствие особенностей данного изделия после подключения питания на нем могут образовываться капли воды, которые исчезнут через 2–3 часа.
- Поскольку изделие оснащено водонепроницаемой системой вентиляции, не рекомендуется устанавливать его в местах, подверженных резким неестественным изменениям температуры.
- 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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Open Source Announcement

РЕКОМЕНДУЕМАЯ КОНФИГУРАЦИЯ ПК

- Процессор : Intel(R) Core(TM) i7 3,4 ГГц или больше
 - Поддерживаемые ОС : MS Windows, Mac OS X
 - Поддерживаемые веб-браузеры : Google Chrome, MS Edge, Mozilla Firefox(который поддерживается только Windows 64bit), Apple Safari (который поддерживается только Mac OS X), MS Explorer
- Подробную информацию о поддерживаемых ОС и браузерах см. в приложении.
Некоторые функции могут быть ограничены даже в поддерживаемых браузерах.

РЕКОМЕНДУЕМЫЕ ХАРАКТЕРИСТИКИ КАРТ ПАМЯТИ МИКРО SD/SDHC/SDXC

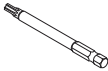
- Рекомендуемая емкость : от 16 до 256 Гбайт (типа MLC)
- Для данной камеры рекомендуются карты памяти следующих типов указанных производителей.
 - Производитель : SanDisk, Transcend
 - Линейка изделий: С длительным сроком службы
- Рекомендуется применять карту памяти на 16 Гб или более, которая отвечает спецификации UHS-3 класс (тип MLC).

КОМПЛЕКТ ПОСТАВКИ (PNM-9320VQP)

Проверьте наличие всех принадлежностей в комплекте поставки камеры.
(У изделий, продаваемых в разных странах, принадлежности могут отличаться.)

Внешний вид	Название элемента	Количество	Описание
	Камера	1	
	Краткое Руководство (необязательно)	1	
	Гарантийный талон (необязательно)	1	
	Адаптер НРoE	1	Соединяет источник питания с сетью
	Кабель для тестирования монитора	1	Используется для подключения камеры к портативному устройству отображения
	Шнур питания	1	Подключается к НРoE

Внешний вид	Название элемента	Количество	Описание
	Клеммная колодка	1	Позволяет подключить кабели через входные и выходные разъемы сигнализации
	Шестигранный ключ	1	Используется для затягивания гаек после соединения установленной базы с корпусом камеры
	Ключ «звездочка»	1	Используется для установки и демонтажа купола и крышки SD-карты
	Винт с шестигранным шлицем	3	Используется для соединения установленной базы с корпусом камеры
	Установленная база	1	Кронштейн для установки устройства
	Водонепроницаемые дополнительные принадлежности	1	Используются для установки в зонах повышенной влажности

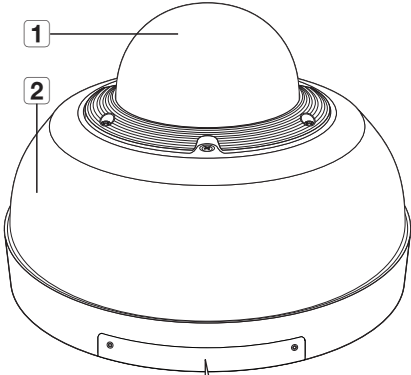
Внешний вид	Название элемента	Количество	Описание
	Насадка к дрели	1	Используется для установки и демонтажа купола и крышки SD-карты (для электроинструмента)
	Ферритовый сердечник	1	Используется для блокирования высокочастотных компонентов, содержащихся в блоке питания, и излучения оконечного сигнала наружу. ■ Перед использованием рекомендуется обмотать его 2 раза вокруг кабеля питания и кабеля локальной сети.

КОМПЛЕКТ ПОСТАВКИ (МОДУЛЬ ОБЪЕКТИВА-ДОПОЛНИТЕЛЬНЫЙ)

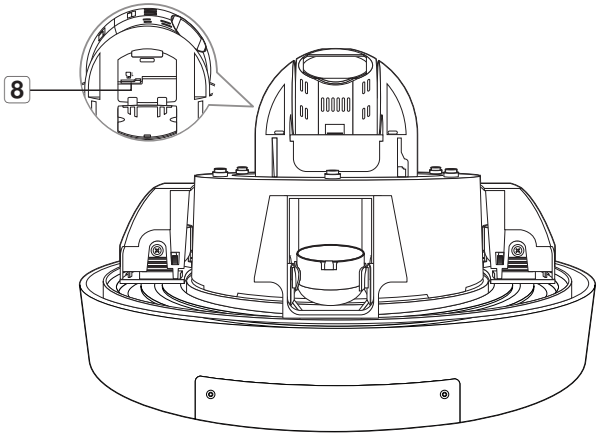
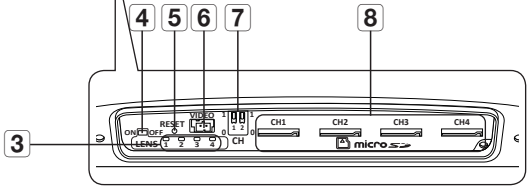
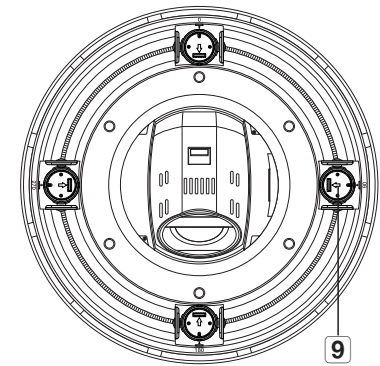
Внешний вид	Название элемента	Количество	Описание	Название модели
	Модуль объектива	1	Крепится к PNM-9320VQP	SLA-2M2400P
		1		SLA-2M2800P
		1		SLA-2M3600P
				SLA-2M6000P
		1		SLA-2M1200P
		1		SLA-5M3700P
		1		SLA-5M4600P
		1		SLA-5M7000P

ОБЩИЙ ОБЗОР (PNM-9320VQP)

Внешний вид



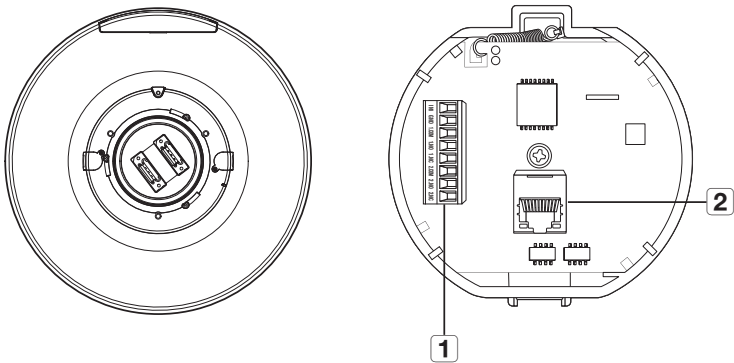
Компоненты



Элемент	Описание
1 Крышка купола	Крышка корпуса, предназначенная для защиты объектива и основного устройства.
2 Крышка объектива	
3 Световой индикатор модуля объектива (норма:зеленый, отклонение от нормы: красный)	Если модуль объектива подсоединен правильно, зеленый светодиод будет светиться, а затем, приблизительно через 40 секунд, погаснет. (для предотвращения нежелательных отражений)
4 Переключатель включения/отключения питания	Используется для включения/выключения аппарата. 1 Используйте только для замены модуля объектива.
5 Кнопка сброса	Восстановление заводских настроек по умолчанию для всех параметров камеры. Для перезагрузки системы нажмите и удерживайте в течение 5 секунд. 1 Если сбросить настройки камеры, то сетевые настройки позволят активировать DHCP. Если в сети нет DHCP-сервера, то перед первым подключением к сети необходимо запустить программу Device Manager, чтобы изменить основные сетевые параметры, такие как IP-адрес, маска подсети, шлюз и т. д.
6 Порт тестирования выходного сигнала монитора	Порт вывода для тестирования выходного видеосигнала наблюдения. Подсоедините мобильный дисплей к порту с помощью кабеля для тестирования видеонаблюдения и проверьте видео.
7 DIP-переключатель для изменения канала	Переведите DIP-переключатели для задания канала, который нужно использовать для просмотра видео с установки. 1 Вы можете проверять только изображение с модуля объективов, но не с модуля PTZ.
8 Отсек для карты памяти Micro SD	Отсек для карты памяти Micro SD.
9 Крепежная часть модуля объектива	Это соединитель для подключения модуля объектива.

Установка сбоку

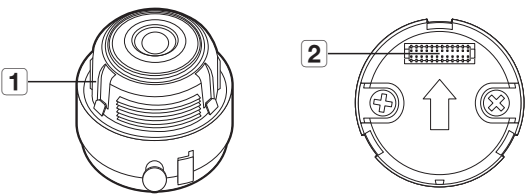
Внутренняя часть установленной базы



Элемент	Описание
1 Входные и выходные разъемы сигнализации	Входные и выходные разъемы, через которые подключаются кабели сигнализации.
2 Разъем для подключения питания и сети	Разъем для подключения питания и сети через кабель RJ-45.

ОБЩИЙ ОБЗОР (МОДУЛЬ ОБЪЕКТИВА)

Внешний вид



Элемент	Описание
1 Модуль объектива	Это модуль объектива, через который записывается видео.
2 Соединитель камеры	Это соединитель для подключения к камере.

УСТАНОВКА

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

Меры предосторожности, принимаемые перед установкой

Прежде чем устанавливать камеру, обязательно прочтите приведенные далее инструкции.

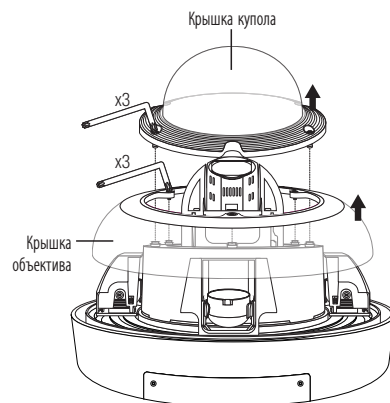
- Выберите место для установки, которое сможет выдержать вес, минимум в 5 раз превышающий вес самой камеры.
- Кабели с поврежденной или снятой изоляцией могут стать причиной повреждения устройства или возгорания.
- С целью предосторожности попросите посторонних лиц покинуть место установки. На всякий 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.
- Не устанавливайте и не снимайте модуль объектива, когда питание включено.

Разборка

С помощью ключа «звездочка» или отвертки ослабьте затянутые винты против часовой стрелки и снимите купол и крышку объектива.

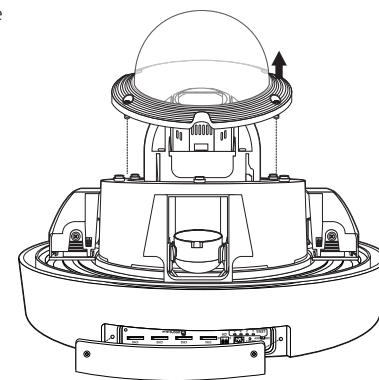
- Полностью выкручивать винты не требуется.
- Снимать купол требуется только при установке карты microSD для модуля PTZ. Во всех остальных случаях этого делать не следует.
- Снимать крышку объектива требуется при установке модуля объектива.
Купол снимать не нужно.

- Так как купол и крышка объектива прозрачные, страховочный трос отсутствует. Будьте осторожны и не уроните оборудование.



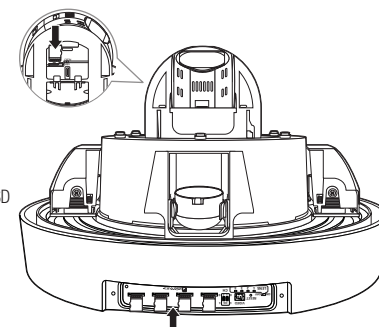
Установка карты памяти microSD

1. С помощью ключа «звездочка» или отвертки снимите купол и крышку SD-карты.



2. Вставьте карту памяти Микро SD в направлении стрелки, как показано на рисунке.

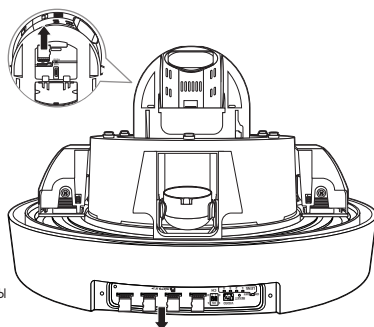
- Перед установкой карты Микро SD отключите кабель питания от камеры.
- Попытки неправильно вставить карту памяти microSD в гнездо могут привести к повреждению карты и всего устройства.
- Не рекомендуется вставлять или вынимать карту памяти Микро SD во время дождя или при высокой влажности.
- Снятие крышки изделия следует закончить в течение 5 минут, поскольку в противном случае возникает опасность конденсации росы внутри изделия.
- При установке карты microSD для модуля PTZ следует снять купол.



Извлечение карты памяти microSD

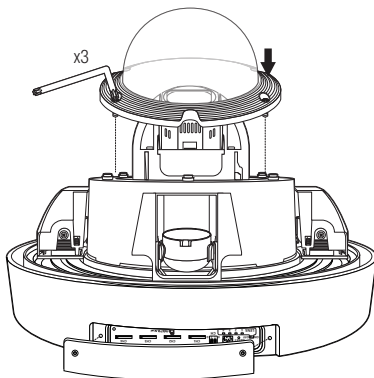
1. Мягко нажмите на выступающий конец карточки как показано на диаграмме, чтобы извлечь карточку из гнезда.

- Для каждого канала требуется отдельная карта памяти.
- 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 Micro SD, содержащую данные, то эти данные могут быть потеряны или повреждены.



2. С помощью ключа «звездочки» или отвертки присоедините купол и крышку SD-карты.

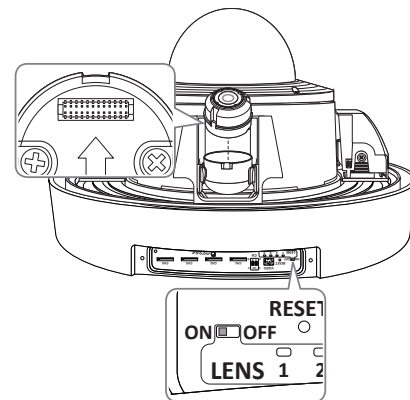
- Плотно затяните винты, чтобы влага не могла попасть внутрь.



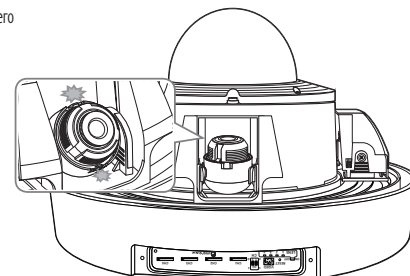
Установка модуля объектива

1. Совместите соединитель модуля объектива с соединителем корпуса камеры и закрепите его.

- Не подключая питание (HPOE), установите модуль объектива.
- Убедитесь, что тумблер питания находится в положении "OFF" перед тем, как установить модуль объективов. При замене модуля в режиме "ON" может возникнуть неисправность.
- Не рекомендуется прикасаться к отделенному объективу, поскольку он отгружен с завода с настроенным при производственной проверке фокусным расстоянием.



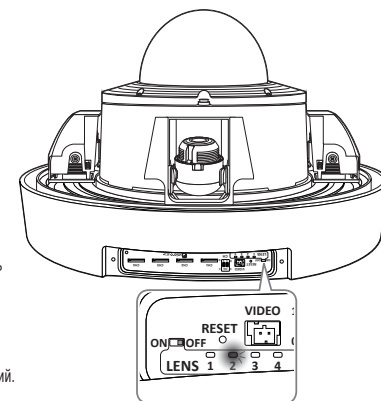
- Вставьте модуль объективов до "Щелчка" верхнего и нижнего зацепов.



2. Завершите процедуру установки объектива.

3. Подключите устройство к источнику питания (HPOE).

- Если модуль объектива подсоединен неправильно, световой индикатор состояния модуля объектива будет светиться красным, как показано на рисунке. Если это произошло, отключите питание выключателем и повторно подсоедините модуль объектива. При нормальном подсоединении индикатор засветится зеленым и приблизительно через 40 секунд погаснет.
- Если необходимо заменить модуль объектива, не отключая устройство от источника питания (HPOE), переведите выключатель в положение «OFF», а после замены верните в положение «ON».
- Не используйте острые инструменты, так как они могут повредить выключатель.
- Для изменения положения выключателя не нужно прилагать усилий. В противном случае это может повредить его.



Подготовка и установка кронштейна камеры

Руководство по установке кронштейнов и корпусов приведено в руководстве по установке, прилагаемом к кронштейну или корпусу.

Доступные модели кронштейнов

Модель	Позиция
SBP-390WM2	Настенное крепление
SBP-300CM	Установка на потолок
SBP-300LM	Крепление на парапет
SBP-300KM	Угловое крепление
SBP-300PM	Крепление к опоре

■ Внешний вид каждого кронштейна (продаются отдельно) можно посмотреть в разделе «Дополнительные принадлежности для установки». (стр. 17)

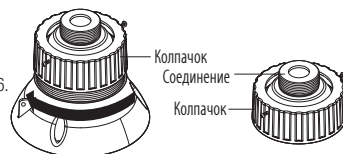
Подсоединение к адаптеру (продается отдельно)

Выберите и приобретите любой из следующих вариантов адаптеров (продаются отдельно), который оптимально подойдет для места установки или покажется вам более удобным.

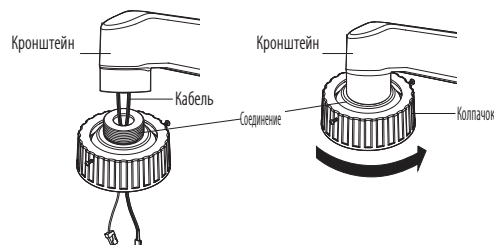
Продукты, которые продаются отдельно, см. в разделе «Дополнительные принадлежности для установки» (стр. 17).

1. Поверните колпачок в направлении, указанном стрелкой, для отделения колпачка от стыка.

■ Если вы не используете SFP-модуль, то можете пропустить шаги с 1 по 6.

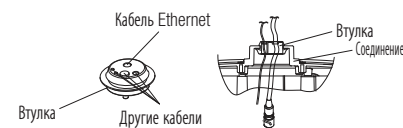
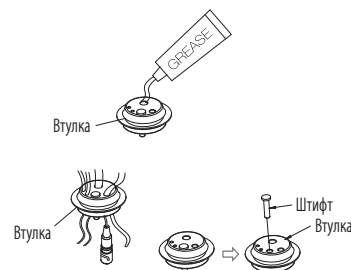


2. Пропустите открывшийся кабель наружу от кронштейна или стойки через стык.
3. Поверните стык в направлении, указанном стрелкой, для соединения двух частей.

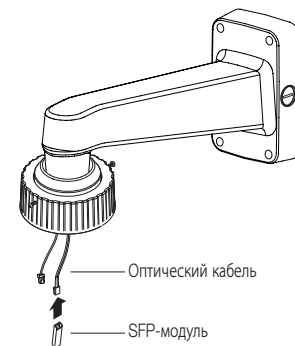


■ Если изделие устанавливается в месте, где возможно проникновение влаги через кронштейн или стойку, для предотвращения затекания влаги извне используйте втулку из числа принадлежностей.

- Нанесите на втулку смазку и пропустите кабель в нужное отверстие втулки. Остальные отверстия заглушите пробками.
- Равномерно надавите на втулку, чтобы точно попасть в соединение, как показано на изображении поперечного разреза.

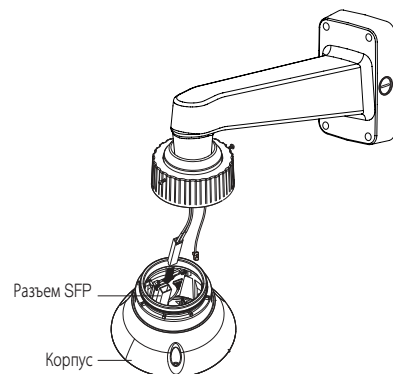


4. Подключите оптический кабель к SFP-модулю.

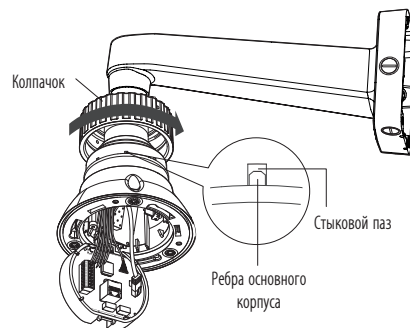


установка и подключение

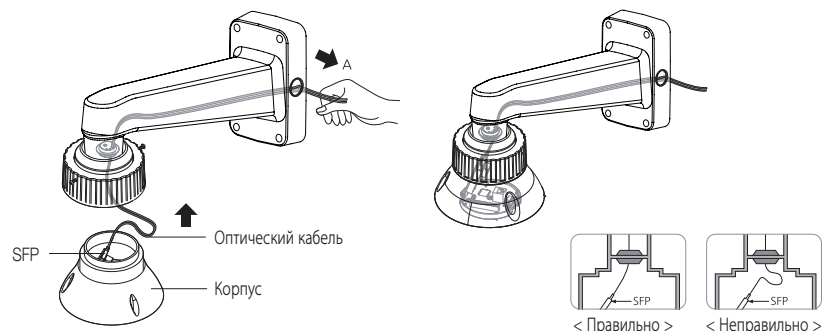
5. Закрепите SFP-модуль в гнезде для SFP в основном корпусе.



6. Совместите выступ на основном корпусе и канавку стыка, затем закрепите их вместе, повернув колпачок в направлении, указанном стрелкой.

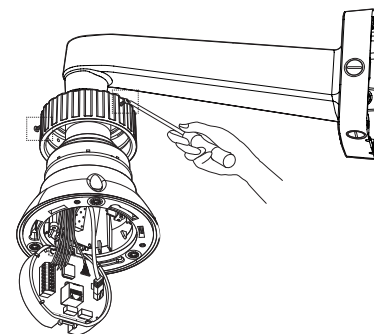


- ! ■ После закрепления двух частей пропустите оптический кабель снаружи внутрь так, чтобы не было изгибов.



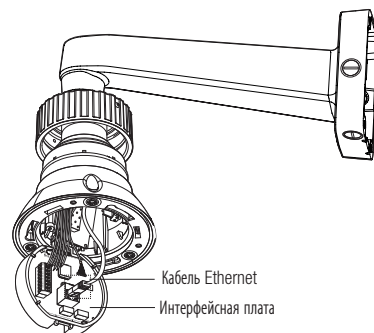
7. Затяните винты на обеих сторонах колпачка для предотвращения ослабления колпачка при его повороте в противоположном направлении. Эти винты заходят внутрь не полностью, а только на определенную длину.

- ! ■ Даже если подключать SFP-модуль не требуется, сильно затяните колпачок, чтобы обеспечить герметичность. Перед поставкой он закручивается неплотнo.

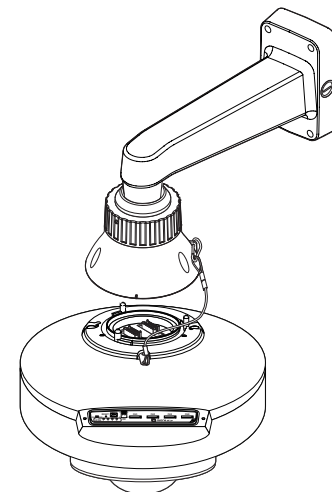


8. Подключите кабель Ethernet к интерфейсной плате.

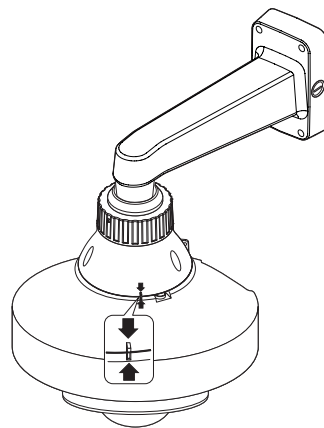
- ! ■ Для правильного соединения с камерой PTZ будьте аккуратны при монтаже.
- (После присоединения камеры кабель может запутаться, так как интерфейсная плата поворачивается.)



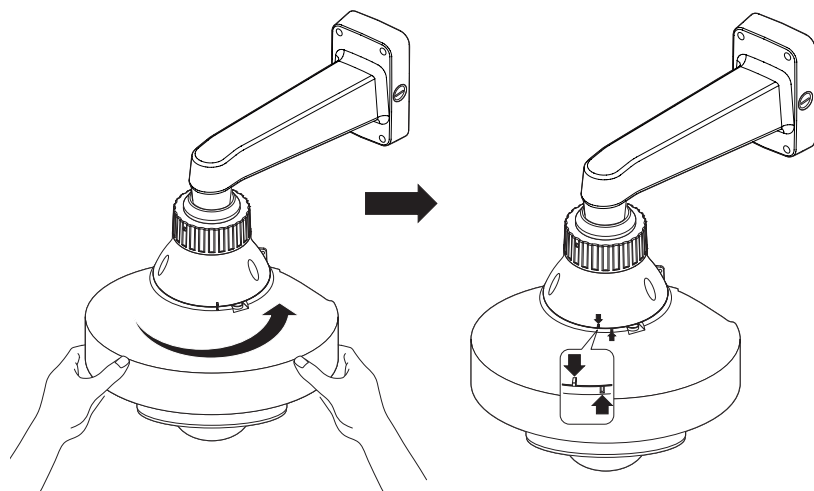
9. Прикрепив интерфейсную плату к корпусу, присоедините страховочный трос камеры к установленной базе.



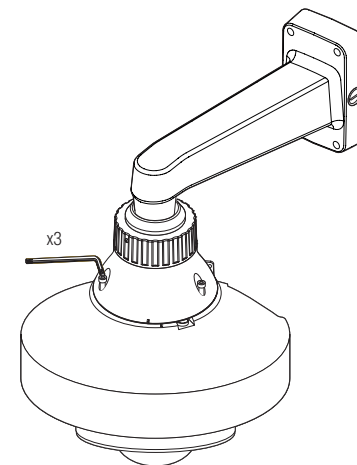
10. Соедините установленное основание и основной корпус камеры, совместив указатели направления.



11. Поверните камеру в направлении, указанном стрелкой, так, чтобы указатели сверху и снизу совпали, как показано на рисунке справа.



12. Используйте шестигранный ключ, чтобы закрепить установленную базу и камеру.

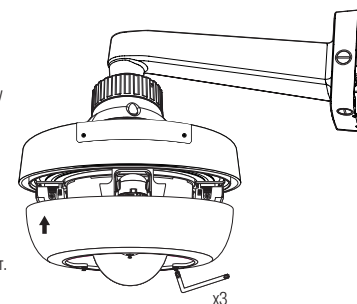


13. Отрегулируйте объектив на желаемое направление, обратившись к разделу **"Регулировка направления наблюдения камеры"**. (стр. 18).
- Если наклонить объектив, может понадобиться его регулировка, поскольку при этом может произойти блокировка экрана.

14. Используйте ключ «звездочка» или отвертку, чтобы присоединить крышку объектива.



- Плотно затяните винты, чтобы влага не могла попасть внутрь.
- Так как крышка объектива прозрачная, страховочный трос отсутствует. Будьте осторожны и не уроните оборудование.



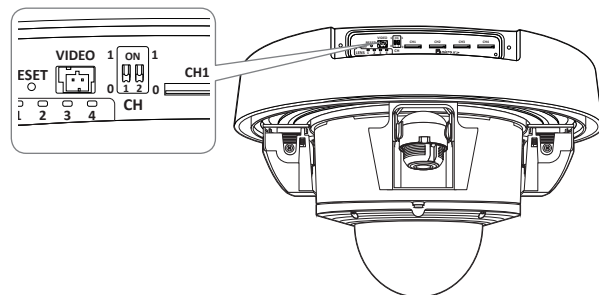
Настройка каналов на мониторе для установки

На корпусе камеры имеется DIP-переключатель каналов, показанный на рисунке.

С помощью канальных DIP-переключателей можно изменить канал камеры.

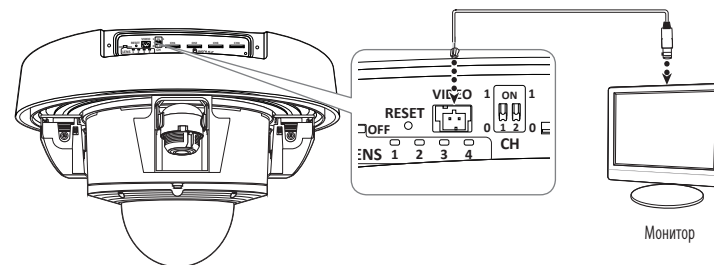
CH1	CH2	CH3	CH4
00	01	10	11

- Если DIP-переключатель не полностью перевести во включенное/отключенное положение, возможны нарушения в работе изделия. После установки проверьте DIP-переключатели сзади.
- Будьте осторожны, DIP-переключатель можно повредить, если оперировать им с помощью острого инструмента.
- Будьте осторожны, DIP-переключатель можно повредить, если оперировать им с чрезмерным усилием.



Подключение монитора

Подключите выходной видеоразъем камеры к входному видеоразъему монитора.



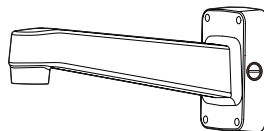
- Тип проводов зависит от типа монитора и набора периферийных устройств; см. руководство пользователя к каждому из устройств.
- При выполнении подключения проверьте, выключено ли питание монитора и камеры.

- Данный продукт является сетевой камерой, передающей видеосигналы по сети; выходной видеоразъем используется для настройки диапазона визуализации камеры при ее установке.
- Использование этого разъема с целью мониторинга может вызвать такие проблемы, как снижение качества видео.
- Не подходит для 24-часового наблюдения с использованием профессиональных ЭЛТ-мониторов или портативных мониторов TFT / LCD.
- Для 24-часового наблюдения и хранения данных используйте сетевой экран.
- Вы можете проверять только изображение с модуля объективов, но не с модуля PTZ.

Дополнительные принадлежности для установки

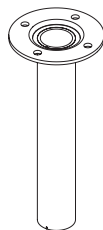
Для упрощения установки можно приобрести дополнительные принадлежности.

1. Если камера устанавливается на стене
 - Настенное крепление (SBP-390WM2)



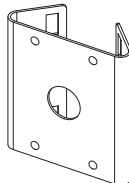
2. Если камера устанавливается на потолке

- Установка на потолке (SBP-300CM)
При использовании потолочного крепежа рекомендуется разместить оборудование на расстоянии как минимум 30 см от стены.



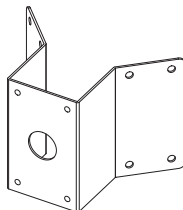
3. Если настенное крепление (SBP-390WM2) устанавливается на цилиндре длиной не менее 80 мм

- Крепление к опоре (SBP-300PM)



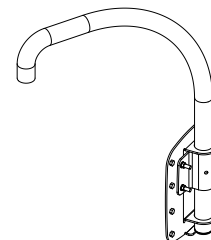
4. Если настенное крепление (SBP-390WM2) устанавливается в углу стены

- Угловое крепление (SBP-300KM)

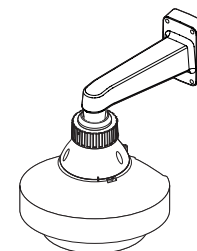


5. Если установка выполняется на крыше здания

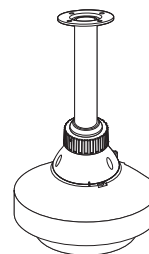
- Крепление на парапет (SBP-300LM)



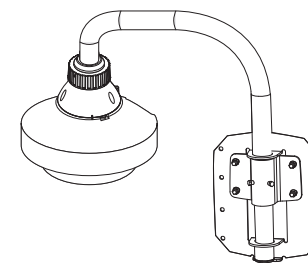
Монтажное соединение



Настенное крепление (SBP-390WM2)

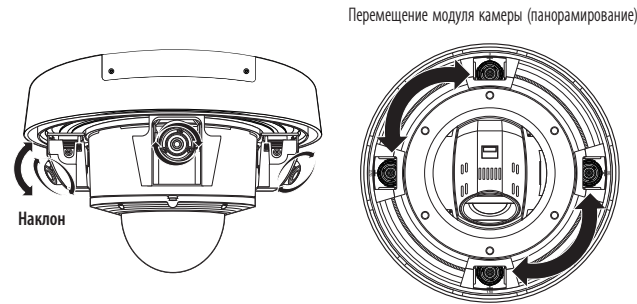


Установка на потолке (SBP-300CM)



Крепление на парапет (SBP-300LM)

Регулировка направления наблюдения камеры



Настройка направления мониторинга

Направление камеры можно регулировать, только когда она закреплена на потолке. Движение модуля камеры называется панорамированием, настройка угла — наклоном, а вращение объектива вокруг своей оси — поворотом.

- Угол вращения при панорамировании: от -90° до +90° для каждого модуля.
- Угол вращения при повороте: от -180° до +180°.
- Угол вращения при наклоне зависит от объектива. См. таблицу ниже.

-
- Изображение может быть закрыто корпусом камеры в зависимости от угла.
 - Не допускайте поворота камеры при панорамировании на угол, превышающий указанный. Это может привести к повреждению кабеля и неправильной работе устройства.

Способы регулировки

1. После установки камеры с учетом направления для мониторинга настройте угол панорамирования по нижней направляющей.
2. Отрегулируйте горизонтальный угол так, чтобы во время вращения не появлялось обратное изображение.
3. Отрегулируйте угол наклона, установив его в направлении наблюдения.

Для каждого модуля объективов используется свой угол наклона.

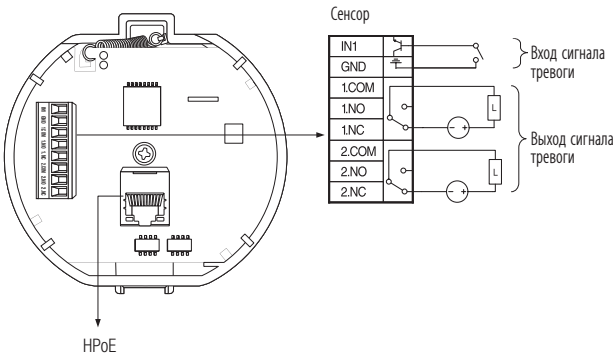
Название модуля объектива	SLA-2M2400P	SLA-2M2800P	SLA-2M3600P	SLA-2M6000P	SLA-2M1200P	SLA-5M3700P	SLA-5M4600P	SLA-5M7000P
Нормальная установка	52°~56°	26°~80°	22°~84°	10°~95°	10°~97°	36°~73°	21°~85°	12°~93°
Для функции Hallway View	Не поддерживается	37°~70°	33°~73°	17°~88°	12°~92°	45°~62°	38°~74°	21°~85°

-
- Если оборудование установлено без учета допустимого угла наклона, это может частично заблокировать обзор в углах монитора.

ПОДКЛЮЧЕНИЕ К ДРУГОМУ УСТРОЙСТВУ

Плата проводного интерфейса камеры

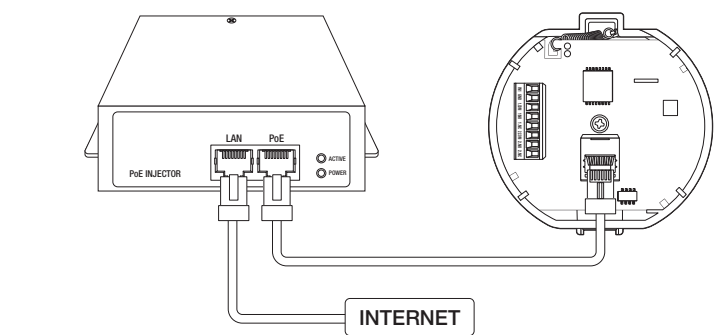
Детали электропроводки камеры представлены на рисунке ниже.



-
- Когда клеммы сигнализации подключены как нормально разомкнутые:
 - датчик срабатывает, если он замкнут в случае точечного контакта или при низком уровне сигнала в случае активности.
 - Максимальная емкость разъема выхода тревоги составляет 30 В пост. тока/2 А, 125 В пер. тока/0,5 А и 250 В пер. тока/0,25 А.
 - При подключении входных и выходных сигнальных кабелей убедитесь, что каждый из них подключен к соответствующему разъему.
 - Для подключения продуктов, мощность которых выше мощности камеры, используйте дополнительное релейное устройство.
 - Неправильное подключение заземления к порту NC/NO и COM может привести к пожару или повреждению устройства.

Питание и сеть

Подключите устройство PoE к разъему PoE камеры.



■ Используйте совместимый адаптер для питания устройства.

Спецификация сетевого кабеля

Пункт	Содержание	Примечание
Разъем	RJ45 (10/100/1000BASE-T)	
Ethernet	10/100/1000BASE-T	При работе с 1000BASE-T для гигабайтного концентратора следует использовать кабель UTP-6 или более высокой категории.
Кабель	UTP категории 6	
Макс. расстояние	100 м	Сопротивление по постоянному току ≤ 0.125 Ом/м
Поддержка питания по HPoE	HPoE	

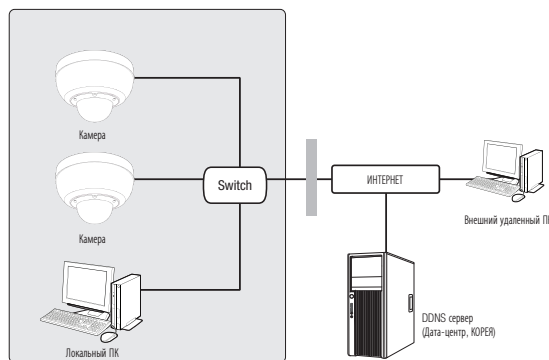
сетевое соединение и настройка

Можно выставить сетевые настройки согласно сетевой конфигурации.

ПОДКЛЮЧЕНИЕ КАМЕРЫ НАПРЯМУЮ К ЛОКАЛЬНОЙ СЕТИ

Подключение к камере через локальный ПК в локальной сети

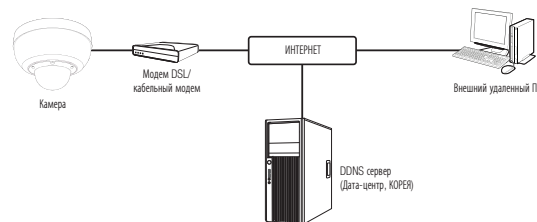
1. Запустите Интернет-браузер на локальном ПК.
2. Введите адрес IP-роутера в адресной строке браузера.



<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 фаервол. 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. 21)

ПРЯМОЕ ПОДКЛЮЧЕНИЕ КАМЕРЫ К МОДЕМУ DSL/КАБЕЛЬНОМУ МОДЕМУ С ПОДДЕРЖКОЙ ПРОТОКОЛА DDNS



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 онлайнной справке программы Web Viewer.
- За информацией о задании формата IP-адреса обратитесь к онлайнной справке программы Web Viewer.

ИСПОЛЬЗОВАНИЕ DEVICE MANAGER



- Программу Device Manager можно загрузить с веб-сайта Hanwha Techwin через меню <Technical Guides> – <Online Tool>. (<http://www.hanwha-security.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 ОК)>. Чтобы войти в систему, на главной странице нажмите <Authentication (Аутентификация)>.

Настройка статического IP

Вручную введите 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 отсутствия Широкополосный 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.
- RTSP Port : Порт, который управляет потоковой передачей в реальном времени. По умолчанию установлено значение 554.

В случае использования Широкополосный 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 переназначении портов на широкополосном маршрутизаторе см. в разделе "Настройка Переназначения Диапазона Портов (Распределение Портов)". (Стр. 23)

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	192.168.1.100	192.168.1.101
	Subnet Mask	255.255.255.0	255.255.255.0
	Gateway	192.168.1.1	192.168.1.1
Настройки, связанные с портами	Порт HTTP	8080	8081
	Порт RTSP	554	555



- Если для параметра <HTTP Port> выбрано значение выше 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

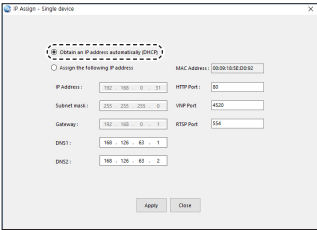
5. Нажмите кнопку [Применить].
6. Если появится сообщение об успешной настройке, нажмите [OK].

Настройка динамического IP-адреса

Получите IP-адрес от DHCP

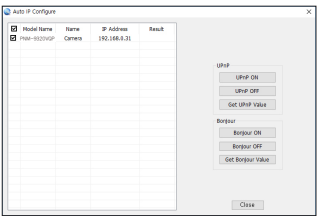
- Примеры динамического IP-окружения
 - Сервер DHCP назначает IP-адрес Широкополосный маршрутизатор с подключенными камерами.
 - Прямое подключение камеры к модему с помощью протоколов DHCP
 - Внутренний сервер DHCP назначает IP-адреса по локальной сети.

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].



АВТОМАТИЧЕСКАЯ НАСТРОЙКА IP

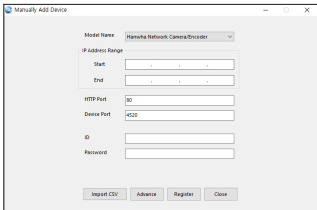
1. Выберите из списка камеру, для которой необходимо автоматически настроить параметры IP.
2. На главной странице Device Manager нажмите < + >.
 - Появится меню настроек оборудования.
3. Выберите в меню <Auto IP Configure (Автоматическая настройка IP)>.
4. Нажмите кнопку [Close (Закрыть)].



РЕГИСТРАЦИЯ КАМЕРЫ ВРУЧНУЮ

Если не удастся 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, идентификатор и пароль.
4. Нажмите кнопку [Register (Зарегистрировать)].
5. Проверьте, зарегистрировалась ли камера.
 - Проверьте MAC-адрес на наклейке, прикрепленной к камере.

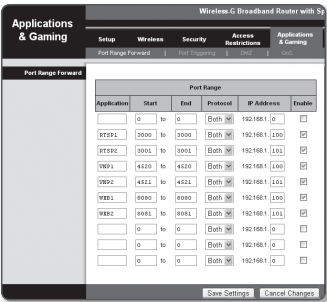


НАСТРОЙКА ПЕРЕАДРЕСАЦИИ ДИАПАЗОНА ПОРТОВ (РАСПРЕДЕЛЕНИЕ ПОРТОВ)

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.

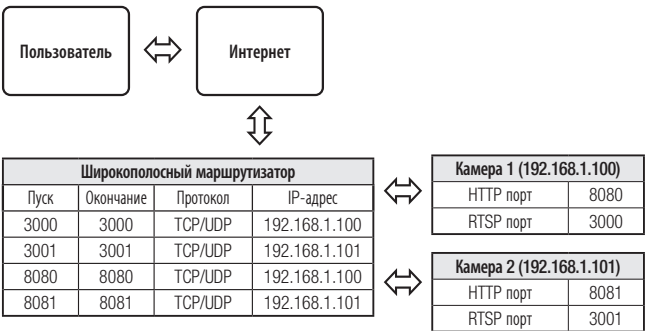


- Настройка переадресации портов является примером настройки IP-маршрутизатора CISCO.
- Параметры могут различаться в зависимости от модели Широкополосный маршрутизатор. Для получения дополнительных сведений см. руководство пользователя соответствующего маршрутизатора.

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:



- 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 **<Wisenet DDNS>** в пункте **"Настройки → Сеть → DDNS"**.

ПОДКЛЮЧЕНИЕ К КАМЕРЕ С ЛОКАЛЬНОГО КОМПЬЮТЕРА ОБЩЕГО ДОСТУПА

1. Запустите Device Manager.
Она выполнит 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>

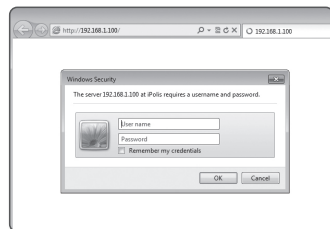


- Чтобы использовать Wisenet DDNS, зарегистрируйтесь на домашней странице Wisenet DDNS (<http://ddns.hanwha-security.com>) и зарегистрируйте продукт через меню **[Мой DDNS]> [Зарегистрировать продукт]**.

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 систему 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 <Wisenet 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. Когда откроется окно “Смена пароля”, введите новый пароль.



- 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.

Administrator password change

New password

Confirm new password

. If the password is 8 to 9 letters long, then it should be a combination of at least three types: upper/lower case alphabets, numbers and special characters.
. If the password is 10 to 15 letters long, then it should be a combination of at least two types: upper/lower case alphabets, numbers and special characters.
. User name should be different from password.
. The following special characters are available for use: ~!@#\$\$%^&*()_-=+![]:./
. Don't use 4 or more characters consecutive together. (examples: 1234, abcd)
. Don't use 4 or more characters repeated. (examples: IIII, 1111, aaaa)

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.

Windows Security

The server 192.168.1.100 at iPolis requires a username and password.

User name

Password

☐ Remember my credentials

OK Cancel



- 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 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". - Если модуль веб-просмотра по-прежнему не отображает видео после выбора "Далее" в окне сообщения внизу, нажмите 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. - Убедитесь в правильности подключения всех сетевых кабелей. - Убедитесь в том, что камера получает динамический IP-адрес при использовании DHCP-технологии. - 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. - Проверьте все сетевые соединения.
Подключенная к сети камера не обнаружена в программе Device Manager.	Отключите фаервол 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. - Проверка нормальной работы модуля объектива.

ПРОБЛЕМА	РЕШЕНИЕ
<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: А. Проверьте настройки параметра <Дата и время>. В. Для параметра <Детектор движения> необходимо задать значение <Активировать>. С. 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. - Снова отформатируйте карту памяти в меню <Настройка> → <Событие> → <Накопитель>.

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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	
mtdd-1.5.2	GPL 2.0	ftp://ftp.infradead.org/pub/mtdd-utils
mi-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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lighttpd is a secure, fast, compliant, and very flexible webserver that has been optimized for high-performance environments. It has a very low memory footprint compared to other webserver and takes care of opload. Its advanced feature-set (FastCGI, CGI, Auth, Output-Compression, URL-Rewriting and many more) make lighttpd the perfect webserver-software for every server that suffers load problems. Simple Network Management Protocol (SNMP) is an Internetstandard protocol for managing devices on IP networks. It is used mostly in network management systems to monitor the devices attached to the network for conditions that need administrative attention. Net-SNMP is a suite of applications used to implement SNMP v1, SNMP v2c and SNMP v3 using both IPv4 and IPv6. For more additional information, send email to help.cctv@hanwha.com.

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- Version 1.1

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It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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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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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](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).



Компания Hanwha Techwin заботится об окружающей среде и прилагает усилия для ее сохранения на всех этапах производства и предоставляет потребителям экологически безопасную продукцию.

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