

WISeNeT

СЕТЕВАЯ КАМЕРА

Руководство пользователя

PNM-9000VQ

SLA-2M2400Q/2M2800Q/2M3600Q/
2M6000Q/5M3700Q/5M4600Q/5M7000Q



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 , 0.6A. (PNM-9000VQ)
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 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.
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.

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 (батарейный 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.

- 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 загрождения 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
- Поддерживаемые ОС : MS Windows, Mac OS X
- **Дополнительный программный модуль Free web viewer**
Поддерживаемые веб-браузеры : Google Chrome, MS Edge, Mozilla Firefox(который поддерживается только Windows 64bit), Apple Safari (который поддерживается только Mac OS X)
Подробную информацию о поддерживаемых ОС и браузерах см. в приложении.
Некоторые функции могут быть ограничены даже в поддерживаемых браузерах.

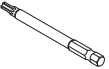
РЕКОМЕНДУЕМЫЕ ХАРАКТЕРИСТИКИ КАРТ ПАМЯТИ МИКРО SD/SDHC/SDXC

- 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-9000VQ)

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	
	Кабель для тестирования монитора	1	Используется для подключения камеры к портативному устройству отображения
	Шаблон	1	Руководство по установке устройства
	Г-образный ключ	1	Используется для снятия и замены крышки купола

Внешний вид	Название элемента	Количество	Описание
	Самонарезающий винт	4	Используются для установки на стену или потолок
	Пластиковый дюбель	4	Используется для фиксации винта, вставляется в отверстие (повышенная прочность фиксации)
	Крепежные винты	4	Используются для сборки купольного корпуса при установке устройства на трубе, стене, и т.д., или для блокировки отверстий.
	Установщик защитного колпачка	1	Используется для подключения кабеля RJ-45
	Влагопоглотитель в виде карты	1	Вставляется при установке.
	Насадка к дрели	1	Используется для демонтажа и монтажа купольной крышки, а также для установки камеры.

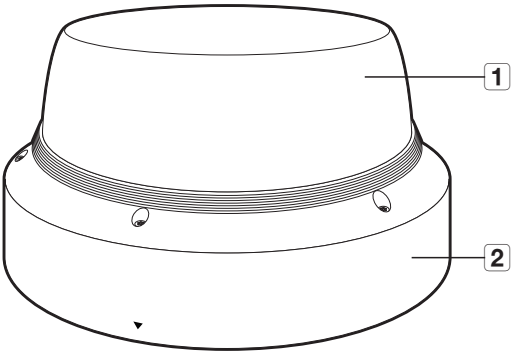
Внешний вид	Название элемента	Количество	Описание
	Кабельная втулка	1	Используется для подключения локальной сети кабелем Ø7~8.5.
	Ферритовый сердечник	1	Используется для блокирования высокочастотных компонентов, содержащихся в блоке питания, и излучения оконечного сигнала наружу. ■ Перед использованием 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-9000VQ	SLA-2M2400Q
		1		SLA-2M2800Q
		1		SLA-2M3600Q
		1		SLA-2M6000Q
		1		SLA-5M3700Q
		1		SLA-5M4600Q
		1		SLA-5M7000Q

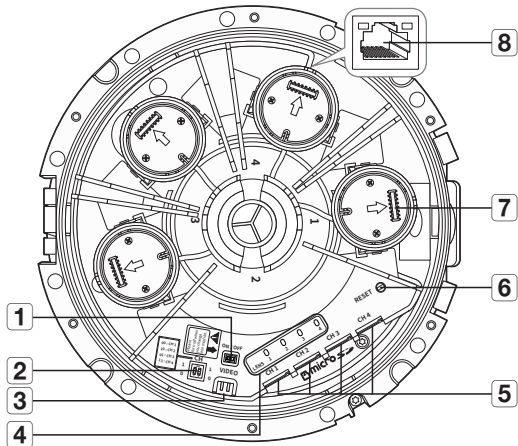
ОБЩИЙ ОБЗОР (PNM-9000VQ)

Внешний вид



Элемент	Описание
1 Крышка купола	Крышка корпуса, предназначенная для защиты объектива и основного устройства.
2 Корпус камеры	Защитный кожух корпуса видеокамеры.

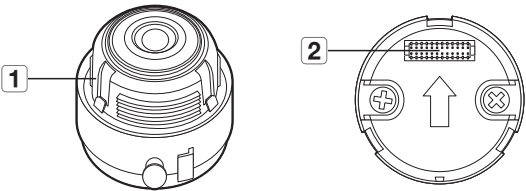
Компоненты



Элемент	Описание
1 Переключатель включения/отключения питания	Используется для включения/выключения аппарата. ■ Используйте только для замены модуля объектива.
2 DIP-переключатель для изменения канала	Переведите DIP-переключатели для задания канала, который нужно использовать для просмотра видео с установки.
3 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.
4 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)
5 Отсек для карты памяти Micro SD	Отсек для карты памяти Micro SD.
6 Кнопка сброса	Восстановление заводских настроек по умолчанию для всех параметров камеры. Для перезагрузки системы нажмите и удерживайте в течение 5 секунд. ■ Если сбросить настройки камеры, то сетевые настройки позволят активировать DHCP. Если в сети сервер DHCP отсутствует, необходимо запустить программу IP Installer, чтобы изменить основные настройки сети IP-адрес, маска подсети, шлюз и проч., прежде чем подключаться к сети.
7 Крепежная часть модуля объектива	Это соединитель для подключения модуля объектива.
8 Терминал PoE+	Терминал позволяет совместить функции передачи питания и данных в одной кабельной системе PoE+.

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.

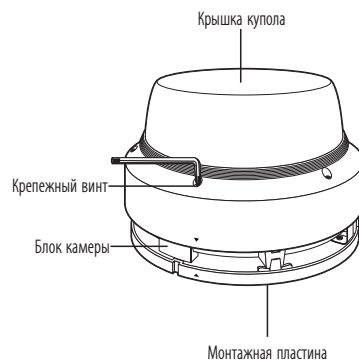
Меры предосторожности, принимаемые перед установкой

Прежде чем устанавливать камеру, обязательно прочтите приведенные далее инструкции.

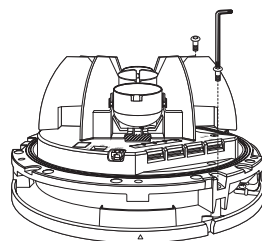
- Выберите место для установки, которое сможет выдержать вес, минимум в 5 раз превышающий вес самой камеры.
- Кабели с поврежденной или снятой изоляцией могут стать причиной повреждения устройства или возгорания.
- С целью предосторожности попросите посторонних лиц покинуть место установки. На всякий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

Разборка

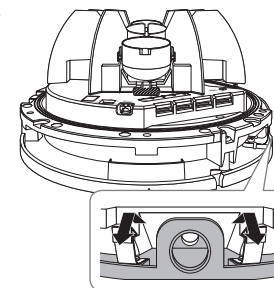
1. Снимите купольную крышку, отвернув винт на этой крышке. Это можно сделать, поворачивая его против часовой стрелки с помощью шестигранного ключа, либо прилагаемой насадки к дрели.



2. Отверните крепежный винт на корпусе камеры.

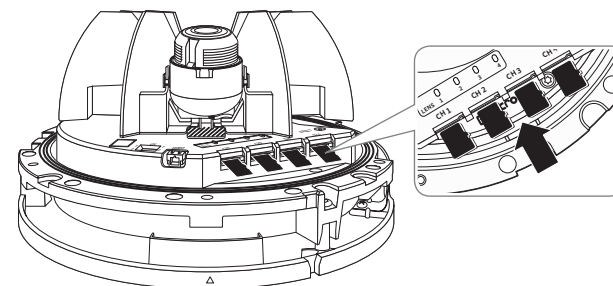


3. Снимите корпус камеры и монтажную пластину, потянув пружину пластины, как показано на рисунке.



Установка карты памяти Микро SD

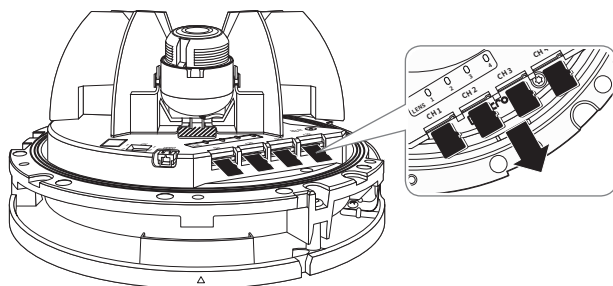
1. Снимите купол камеры.
2. Вставьте карту памяти Микро SD в направлении стрелки, как показано на рисунке.



- 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.

Извлечение карты памяти Микро SD

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

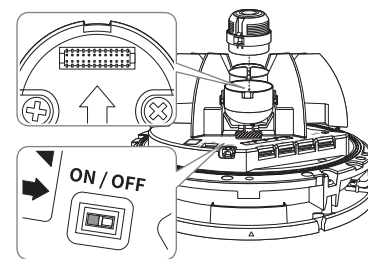


- Для каждого канала требуется отдельная карта памяти.
- Заметьте, что если во время извлечения сильно нажать на карту памяти Micro SD, а затем отпустить ее, она может выскочить.
- Перед извлечением карты памяти SD в меню <Накопитель>, установите устройство в состояние <Выкл.>, нажмите кнопку [Применить]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

Установка модуля объектива

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

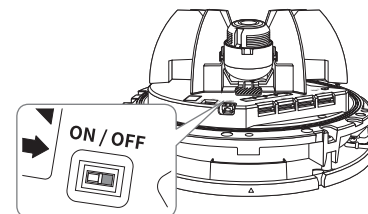
- Не подключая питание (PoE+), установите модуль объектива.
- Перед установкой модуля убедитесь, что выключатель питания находится в положении «OFF».
- Не рекомендуется прикасаться к отделенному объективу, поскольку он отгружен с завода с настроенным при производственной проверке фокусным расстоянием.



2. Завершите процедуру установки объектива.

3. Подключите устройство к источнику питания (PoE+).

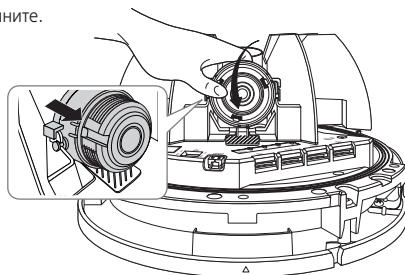
- Если необходимо заменить модуль объектива, не отключая устройство от источника питания (PoE+), переведите выключатель в положение «OFF», а после замены верните в положение «ON».
- Не используйте острые инструменты, так как они могут повредить выключатель.
- Для изменения положения выключателя не нужно прилагать усилий. В противном случае это может повредить его.



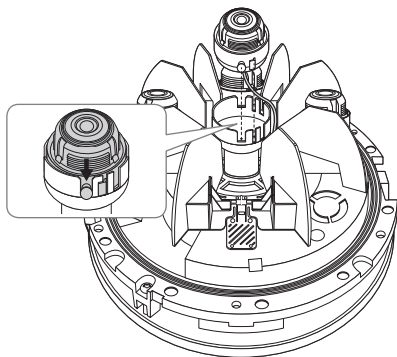
Установка с использованием метода перпендикулярного падения

Использовать для вертикальной съемки можно только одну из камер. В этом случае ее наклон изменяется на 90 градусов.

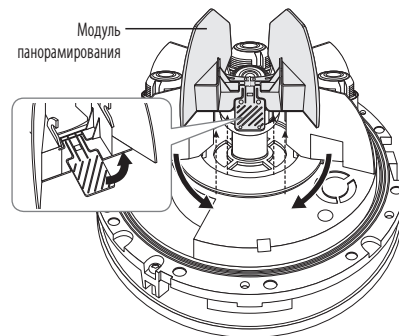
1. Наклоните модуль объектива вперед, а затем потяните.



2. Выровняйте канавку по центру поворотной части.



3. Приподнимите деталь с диагональными линиями, чтобы вынуть модуль панорамирования.
4. Настройте положение трех объективов, двигая их по нижней направляющей.

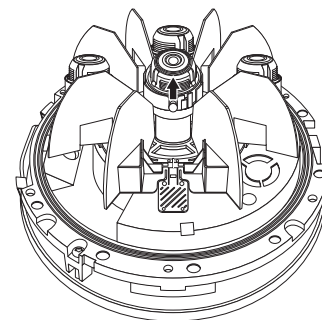


Установка с использованием метода наклона

Объективы каналов 1 - 4 для просмотра видео можно перемещать вдоль нижней направляющей, устанавливая их методом наклона.

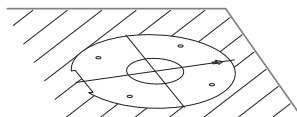
В этом случае ориентацию объектива нельзя изменять наклоном на 90 градусов.

1. Закрепите модуль панорамирования.
2. Отсоедините направленный вниз объектив от центра устройства.
3. Настройте положение четырех объективов, двигая их по нижней направляющей.

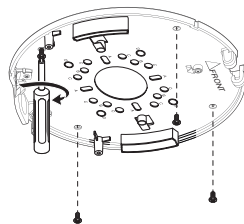


Установка на потолке или на стене

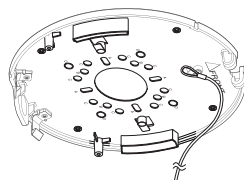
1. Используя прилагающийся шаблон, просверлите отверстия для установки (диаметром 6 мм и глубиной не менее 45 мм), затем вставьте до конца прилагаемые пластиковые дюбели.



2. Совместите отверстия с помещенными в них дюбелями и отверстия в монтажной пластине, затем вкрутите шурупы.



3. Присоедините страховочный трос.



4. Совместите корпус камеры с монтажной пластиной.

- Убедитесь, что петли закрылись, как показано на рисунке.

5. Подключите нужный кабель к терминалу внутри камеры.



- 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.

6. Нажмите до закрытия защелки.

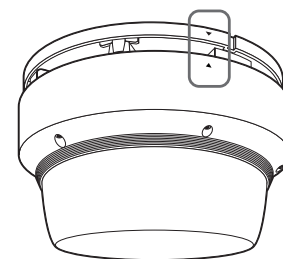
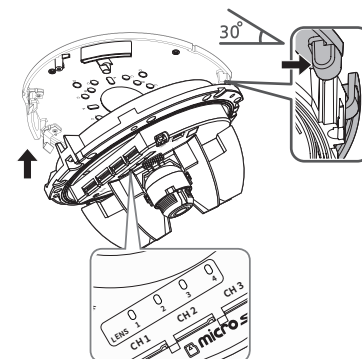
7. Отрегулируйте объектив на желаемое направление, обратившись к разделу **"Регулировка направления наблюдения камеры"**. (стр. 17).

- Если наклонить объектив, может потребоваться его регулировка, поскольку при этом может произойти блокировка экрана.

8. Закрепление купольной крышки.

- При установке купольной крышки совместите стрелки.

- Для обеспечения отсутствия проблем с водонепроницаемостью, плотно затяните крепежные болты с помощью шестигранного ключа или насадки к дрели.

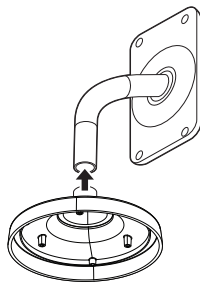


Подсоединение к адаптеру (продается отдельно)

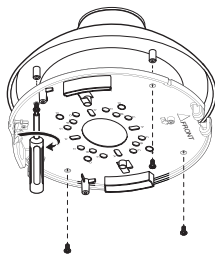
Выберите и приобретите любой из следующих вариантов адаптеров (продаются отдельно), который оптимально подойдет для места установки или покажется вам более удобным.

1. Установите кронштейн для подвешивания в адаптер настенного крепления.

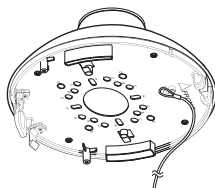
- Адаптер и кронштейн для подвешивания приобретаются отдельно.



2. Соедините монтажную пластину и подвесное крепление.



3. Присоедините страховочный трос.



4. Совместите корпус камеры с монтажной пластиной.

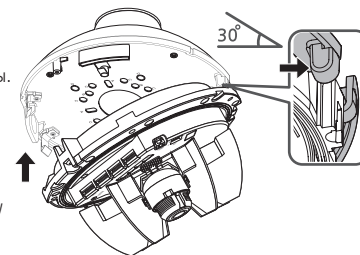
- Убедитесь, что петли закрылись, как показано на рисунке.

5. Подключите нужный кабель к терминалу внутри камеры.

6. Нажмите до закрытия защелки.

7. Отрегулируйте объектив на желаемое направление, обратившись к разделу **"Регулировка направления наблюдения камеры"**. (стр. 17).

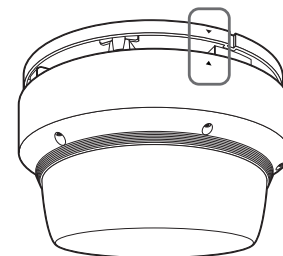
- Если наклонить объектив, может понадобиться его регулировка, поскольку при этом может произойти блокировка экрана.



8. Закрепление купольной крышки.

- При установке купольной крышки совместите стрелки.

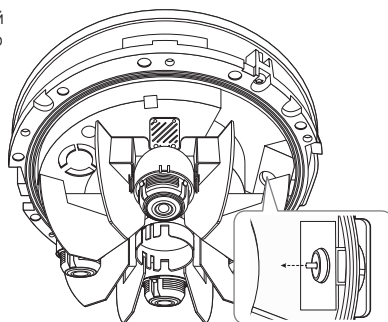
- Для обеспечения отсутствия проблем с водонепроницаемостью, плотно затяните крепежные болты с помощью шестигранного ключа или насадки к дрели.



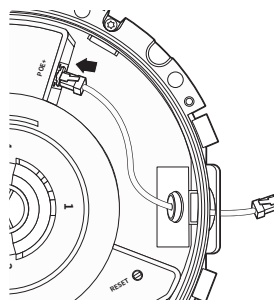
Способ 1. Подключение кабеля локальной сети

1. Снимите крышку купола и корпус.
2. Потяните за длинную выступающую часть резиновой пробки на дне корпуса и извлеките ее, как показано на рисунке.

- !** ■ Для подключаемого кабеля локальной сети используйте соответствующую втулку.
- Базовая камера: используйте кабель Ø5~6.5.
 - Прилагаемые компоненты: Используйте кабель Ø7~8.5.

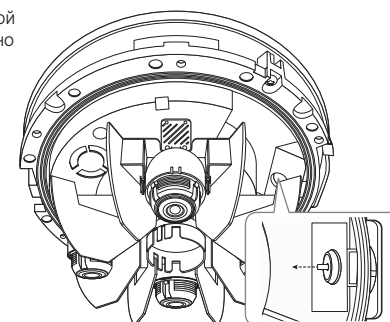


3. Проложите кабель локальной сети через отверстие, оставшееся после удаления выступающей части на шаге 2 выше.
4. Удалите оболочку с помощью кабельного резака и выровняйте кабели.
5. Подключите кабель LAN с помощью коннектора LAN и вставьте его в инструмент LAN.
6. Подключите готовый кабель к порту Ethernet.

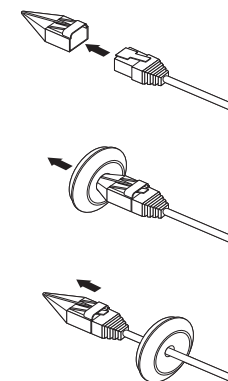


Способ 2. Подключение кабеля локальной сети

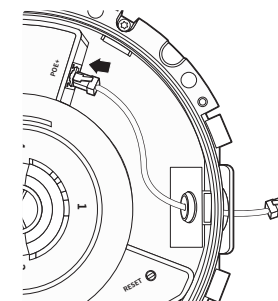
1. Снимите крышку купола и корпус.
2. Потяните за длинную выступающую часть резиновой пробки на дне корпуса и извлеките ее, как показано на рисунке.
3. Потяните резиновую крышку на отверстие, чтобы снять ее.



4. Для сквозного пропускания кабеля RJ45 используйте колпачковое приспособление.



5. Вставьте резиновый стопор обратно и подключите кабель локальной сети к соединителю Ethernet.



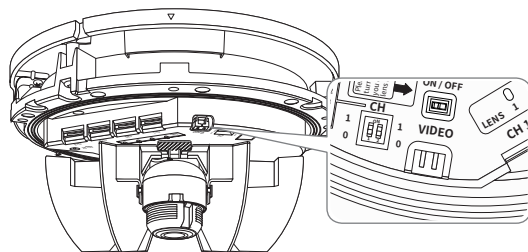
Настройка каналов на мониторе для установки

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.



Наружный монтаж

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

1. Присоедините кабель PoE.

2. Оберните черный кабельный кожух (Зона А) и зону присоединения кабеля водонепроницаемой лентой (бутылкачук) так, чтобы лента бутылкачука перекрывалась больше чем на половину.

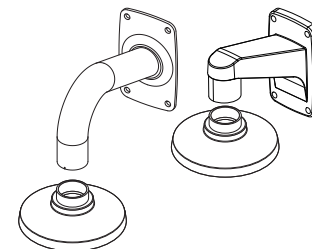


- Если не обеспечена надлежащая водонепроницаемость кабельного кожуха, это может стать причиной течи. Удостоверьтесь, что кабель обмотан толстым слоем ленты.
- Водонепроницаемая лента сделана из бутылкачука, который может растягиваться по длине более чем в два раза.

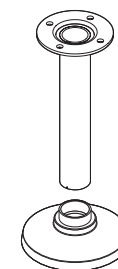
Дополнительные принадлежности для установки

Для упрощения установки можно приобрести дополнительные принадлежности.

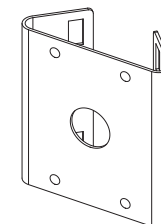
1. АДАПТЕР ДЛЯ НАСТЕННОГО КРЕПЛЕНИЯ (SBP-SBP-300WM/ SBP-300WM1) / НАВЕСНОГО КРЕПЛЕНИЯ (SBP-276HM)
Этот адаптер используется для установки купольной камеры на стену.



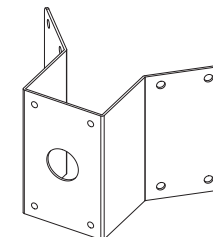
2. АДАПТЕР ДЛЯ ПОТОЛОЧНОГО КРЕПЛЕНИЯ (SBP-300CM) / НАВЕСНОГО КРЕПЛЕНИЯ (SBP-276HM)
Этот адаптер используется для установки купольной камеры на бетонном потолке.



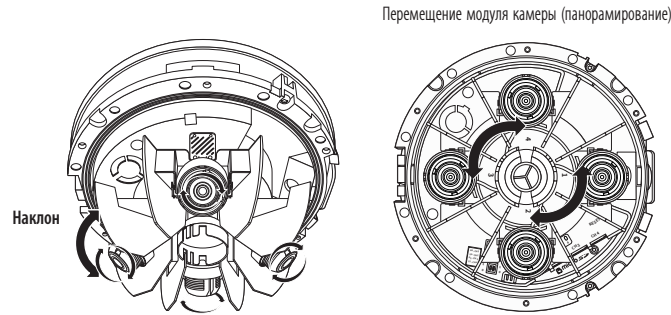
3. СТОЕЧНЫЙ АДАПТЕР (SBP-300PM) - это переходник, использующийся, когда НАСТЕННЫЙ АДАПТЕР (SBP-300WM или SBP-300WM1) монтируется на столбе 80 мм или более.



4. АДАПТЕР ДЛЯ УСТАНОВКИ В УГЛУ (SBP-300KM)
Это адаптер (SBP-300WM или SBP-300WM1) предназначен для настенной установки в углу.



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.

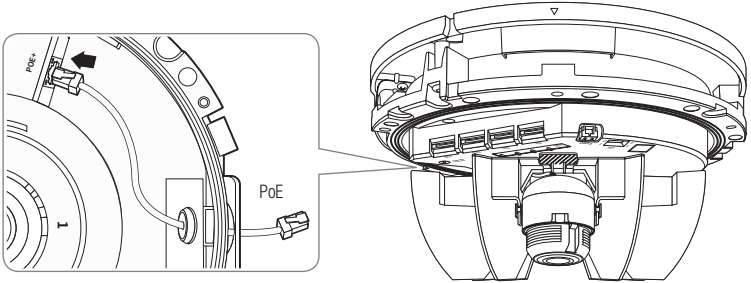
- Угол вращения при панорамировании: от -90° до +90° для каждого модуля.
- Угол вращения при повороте: от -180° до +180°.
- Угол вращения при наклоне зависит от объектива. Подробные технические характеристики см. (стр. 27).

- ! ■ 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.

ПОДКЛЮЧЕНИЕ К ДРУГОМУ УСТРОЙСТВУ



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

Питание и сеть

Подсоедините устройство PoE+ к PoE-терминалу камеры.

- ! ■ Подключите маршрутизатор с поддержкой PoE+.
- Используйте устройство PoE+, соответствующее стандарту IEEE802.3at.

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 ≤ 0,188 Ом/м
Поддержка питания по PoE+	IEEE 802.3at	

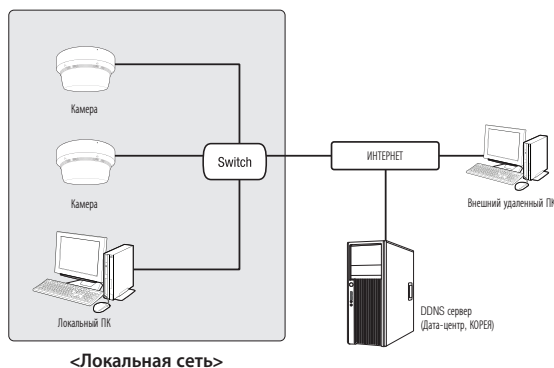
сетевое соединение и настройка

Можно выставить сетевые настройки согласно сетевой конфигурации.

ПОДКЛЮЧЕНИЕ КАМЕРЫ НАПРЯМУЮ К ЛОКАЛЬНОЙ СЕТИ

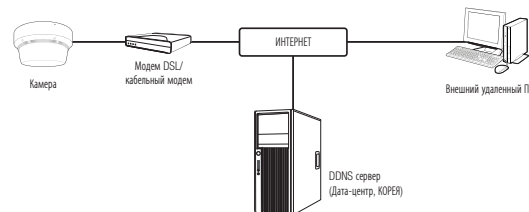
Подключение к камере через локальный ПК в локальной сети

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



- 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.
- Для задания IP-адреса, маски подсети, шлюза, порта HTTP, порта VNP и типа IP в установщике IP можно использовать первоначальный пароль "4321". Для лучшей защиты после изменения сетевого интерфейса войдите в web viewer и поменяйте пароль.
- 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, используйте программу IP Installer. Для получения дополнительных сведений о программе IP Installer см. раздел "Настройка статического IP-адреса". (Стр. 19)

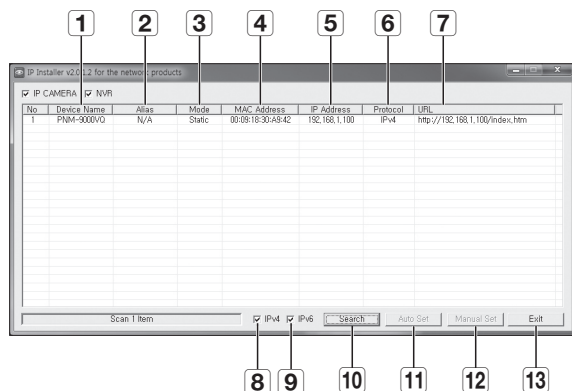
ПРЯМОЕ ПОДКЛЮЧЕНИЕ КАМЕРЫ К МОДЕМУ DSL/КАБЕЛЬНОМУ МОДЕМУ С ПОДДЕРЖКОЙ ПРОТОКОЛА DDNS



1. Подсоедините напрямую ПК пользователя с сетевой камерой.
2. Запустите программу IP Installer и измените IP-адрес камеры, чтобы использовать веб-браузер на рабочем столе для подключения к Интернету.
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.

ЭЛЕМЕНТЫ ЭКРАННОГО МЕНЮ ПРОГРАММЫ IP INSTALLER



Элемент	Описание
1 Device Name	Название модели подключенной камеры. Щелкните этот столбец, чтобы отсортировать список по названиям моделей. Поиск прекратится, если щелкнуть мышью до его окончания.
2 Alias	Эта функция сейчас недоступна.
3 Mode	Текущее состояние сетевого соединения: <Static> или <Dynamic>.
4 MAC(Ethernet) Address	Адрес Ethernet для подключенной камеры. Щелкните этот столбец, чтобы отсортировать список по адресам Ethernet. Поиск прекратится, если щелкнуть мышью до его окончания.
5 IP Address	IP-адрес. Щелкните этот столбец, чтобы отсортировать список по IP-адресам. Поиск прекратится, если щелкнуть мышью до его окончания.
6 Protocol	Настройка сети для конкретной камеры. Заводская настройка по умолчанию "IPv4". Камера с настройкой IPv6 отображается как "IPv6".
7 URL	DDNS URL-адрес для доступа из внешней сети Интернет. Этот адрес будет заменен на <IP Address> камеры, если произойдет сбой регистрации DDNS.
8 IPv4	Поиск камер с настройкой IPv4.

Элемент	Описание
9 IPv6	Поиск камер с настройкой IPv6. Активируется в среде, где имеется поддержка IPv6.
10 Search	Поиск камер, подключенных в данный момент к сети. Эта кнопка будет неактивной, если ни IPv4, ни IPv6 не выбраны.
11 Auto Set	Программа IP Installer автоматически настраивает параметры сети.
12 Manual Set	Настройка сети вручную.
13 Exit	Выход из программы IP Installer.

- При использовании программы IP Installer используйте только версию, представленную на диске установки CD, или используйте последнюю версию этой программы, если доступно. Последнюю версию можно загрузить с веб-сайта Hanwha Techwin.
- Если поддерживаемой ОС является Windows 8.1, рекомендуется вместо IP Wisenet использовать Диспетчер устройств Wisenet. Программу Диспетчер устройств Wisenet можно загрузить, посетив веб-сайт Hanwha Techwin (<http://www.hanwha-security.com>) из меню <Технический справочник> - <Онлайнный инструмент>.

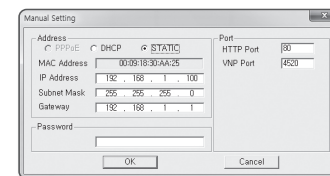
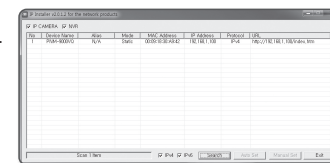
НАСТРОЙКА СТАТИЧЕСКОГО IP-АДРЕСА

Настройка сети вручную

Запустите <IP Installer_v2.XX.exe>, чтобы получить доступ к списку поиска камеры. Кнопки [Auto Set] и [Manual Set] будут неактивны при первом запуске программы.

- Для обнаруженных камер с настройкой IPv6 эти кнопки также будут неактивны, так как эти камеры не поддерживают данную функцию.

1. Выберите камеру в списке поиска.
Проверьте MAC-адрес, указанный на наклейке видеокamеры. Кнопки [Auto Set] и [Manual Set] станут активными.
2. Нажмите кнопку [Manual Set].
Появится диалоговое окно Manual Setting.
<IP Address>, <Subnet Mask>, <Gateway>, <HTTP Port> и <VNP Port> камеры отображаются в заданных величинах.
3. В разделе <Address> укажите необходимую информацию.
 - MAC (Ethernet) Address : Указанный на наклейке MAC-адрес отображается автоматически и не требует установки дополнительных пользовательских настроек.
 - Соответствующие параметры IP устанавливаются только, когда DHCP не проверена.

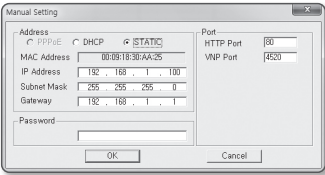


В случае отсутствия Широкополосный маршрутизатор

Узнайте значения параметров <IP Address>, <Subnet Mask> и <Gateway> у своего сетевого администратора.

4. В разделе <Port> укажите необходимую информацию.

- 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.
5. Введите пароль.
Укажите пароль учетной записи "admin", которая использовалась для доступа к камере.

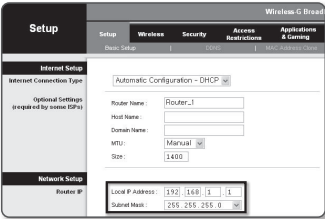


- По соображениям безопасности для пароля рекомендуется использовать сочетание цифр, строчных и прописных букв, а также специальных символов.
- За информацией об изменении пароля обратитесь к онлайнной справке программы Web Viewer.

6. Нажмите кнопку [OK].
Ручная настройка сети завершена.

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 переадресации портов на широкополосном маршрутизаторе см. в разделе "Настройка Переадресации Диапазона Портов (Распределение Портов)". (Стр. 21)

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	HTTP Port	8080	8081
	VNP Port	4520	4521

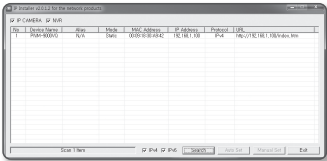
- Если для параметра <HTTP Port> выбрано значение свыше 80, необходимо указать номер <Port> в адресной строке веб-обозревателя, прежде чем получить доступ к камере.
пр) http://IP-адрес : Порт HTTP
http://192.168.1.100:8080

Автоматическая настройка сети

Запустите <IP Installer_v2.XX.exe>, чтобы получить доступ к списку поиска камеры. Кнопки [Auto Set] и [Manual Set] будут неактивны при первом запуске программы.

- Для обнаруженных камер с настройкой IPv6 эти кнопки также будут неактивны, так как эти камеры не поддерживают данную функцию.

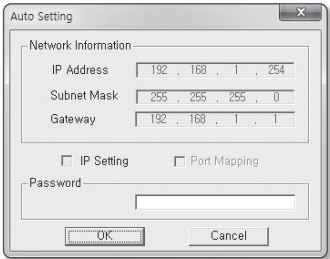
1. Выберите камеру в списке поиска.
Проверьте MAC-адрес, указанный на наклейке видеокamеры. Кнопки [Auto Set] и [Manual Set] станут активными.
2. Нажмите кнопку [Auto Set].
Появится диалоговое окно Auto Setting.
Значения параметров <IP Address>, <Subnet Mask> и <Gateway> будут установлены автоматически.



3. Введите пароль.
Укажите пароль учетной записи "admin", которая использовалась для доступа к камере.

- По соображениям безопасности для пароля рекомендуется использовать сочетание цифр, строчных и прописных букв, а также специальных символов.
- За информацией об изменении пароля обратитесь к онлайнной справке программы Web Viewer.

4. Нажмите кнопку [OK].
Автоматическая настройка сети завершена.



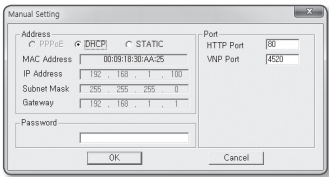
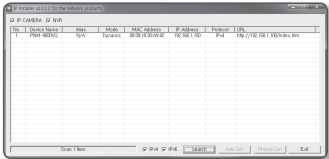
НАСТРОЙКА ДИНАМИЧЕСКОГО IP-АДРЕСА

Настройка динамического IP-окружения

- 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.

Просмотр динамического IP-адреса

- Запустите программу IP Installer на локальном компьютере. В списке отобразятся видеокamеры с адресами, заданными в поле <Dynamic IP>.
- Выберите видеокamеру в результатах поиска.
- Нажмите кнопку [Manual Set] и проверьте данные в поле <Dynamic IP>. Если снять флажок <DHCP>, то значение параметра IP можно изменить на <Static>.

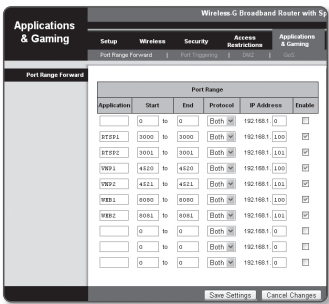


НАСТРОЙКА ПЕРЕАДРЕСАЦИИ ДИАПАЗОНА ПОРТОВ (РАСПРЕДЕЛЕНИЕ ПОРТОВ)

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

- 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.
- 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.



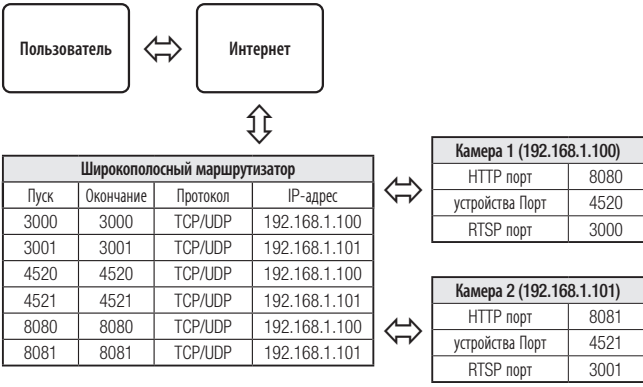
- Затем нажмите кнопку [Save Settings]. Заданные настройки будут сохранены.

- Выше приведены инструкции для Широкополосный маршрутизатор 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.

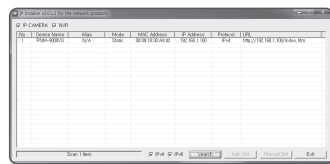
Когда камера 1 и камера 2 подключены к маршрутизатору:



- 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 программу IP Installer.
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

Поскольку программа IP Installer запущена на удаленном компьютере, который находится вне сетевого кластера Широкополосный маршрутизатор, доступ к камерам в сети Широкополосный маршрутизатор можно получить, используя URL-адрес DDNS 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>

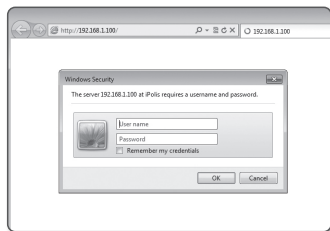


- За информацией о регистрации DDNS обратитесь к онлайн-справке программы Web Viewer.

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.



- 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.

Windows Security

The server 192.168.1.100 at iPolis requires a username and password.

User name

Password

☐ Remember my credentials

OK Cancel

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 (ℹ)> 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.
Программа IP Installer не находит камеру, подключенную к сети.	Отключите фаервол на своем ПК и заново запустите поиск камеры.

ПРОБЛЕМА	РЕШЕНИЕ
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.
<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>.
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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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	
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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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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Julian Seward, jseward@bzip.org

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iperf performance test

Mark Gates

Ajay Tirumala

Jim Ferguson

Jon Dugan

Feng Qin

Kevin Gibbs

John Estabrook

National Laboratory for Applied Network Research

National Center for Supercomputing Applications

University of Illinois at Urbana-Champaign

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Jean-loup Gailly Mark Adler

jloup@gzip.org madler@alummi.caltech.edu

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).



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