

СЕТЕВАЯ КАМЕРА

Руководство пользователя

XNP-6371RH



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. Для питания данного изделия предназначается блок питания из списка допустимых, имеющий маркировку "Класс 2", с номинальным выходным переменным напряжением 24 В (50/60 Hz) при токе не менее 4,2 А.
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.

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

Батарею невозможно заменить.

Отключение устройства

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

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

ВНИМАНИЕ

Настоящие инструкции по обслуживанию предназначены только для квалифицированных специалистов.

Во избежание поражения электрическим током не следует выполнять работы по обслуживанию, описанные в инструкциях по эксплуатации, если вы не обладаете соответствующей квалификацией.

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 заграждения вентиляционных отверстий.
- Не ставьте тяжелые предметы на устройство.
- При установке/демонтаже камеры надевайте защитные перчатки. Высокая температура поверхности изделия может вызвать ожог.

Руководство пользователя содержит инструкции по использованию продуктов.

В руководстве используются следующие обозначения.

- Справка : сведения по использованию устройства
 - Примечание : На случай возможных повреждений имущества или вреда здоровью людей в результате несоблюдения инструкций
- ✳ Прочтите это руководство по безопасности перед использованием устройств и сохраните его в безопасном месте.

В некоторых условиях установки могут возникать помехи радиосвязи.

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

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РЕКОМЕНДУЕМАЯ КОНФИГУРАЦИЯ ПК

- Процессор : Intel(R) Core(TM) i7 3,4 ГГц или больше
- ОЗУ : 8 ГБ или больше
- Поддерживаемые ОС : MS Windows, Mac OS X
- **Дополнительный программный модуль Free web viewer**
Поддерживаемые веб-браузеры : Google Chrome, Microsoft Edge, Mozilla Firefox (только 64-разрядная ОС Windows), Apple Safari (только Mac OS X)
- **Webviewer с дополнительным программным модулем**
Поддерживаемые веб-браузеры : Microsoft Internet Explorer, Apple Safari (только Mac OS X)

Подробная информация о поддерживаемых ОС и версиях браузеров приведена в приложении.

РЕКОМЕНДУЕМЫЕ ХАРАКТЕРИСТИКИ КАРТ ПАМЯТИ SD/SDHC/SDXC

- Рекомендуемая емкость : 4GB ~ 128GB (Для SD-карт памяти 128 Гбайт рекомендуется файловая система ext4.)
- Мы рекомендуем с камерой использовать карточки следующих производителей:
Карта памяти SD/SDHC/SDXC (типа MLC) : Sandisk, Transcend
- При частоте кадров ниже 30 кадр/с рекомендуется использовать карту памяти класса 6 или выше.
- При частоте кадров свыше 31 кадр/с рекомендуется использовать карту памяти класса 10 или выше.

РЕКОМЕНДУЕМЫЕ ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ NAS

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

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



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

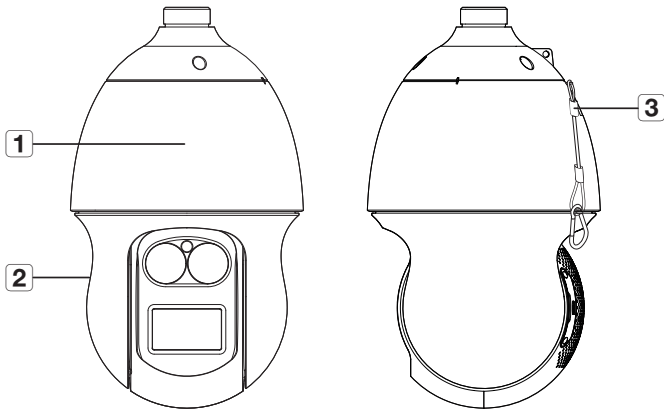
КОМПЛЕКТ ПОСТАВКИ

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

Внешний вид	Название элемента	Количество	Описание
	Основной корпус	1	
	Краткое Руководство (необязательно)	1	
	Гарантийный талон (необязательно)	1	
	Кабель для тестирования монитора	1	Используется для подключения камеры к портативному устройству отображения
	Винт с шестигранной головкой	3	Используется для крепления основания для установки к камере.
	Г-образный ключ	1	Используется для фиксации основания для установки после прикрепления его к камере.
	Основание для установки	1	Кронштейн для установки на открытом воздухе
	Гидроизоляционные принадлежности	1	Устанавливаются для использования в местах с высокой влажностью

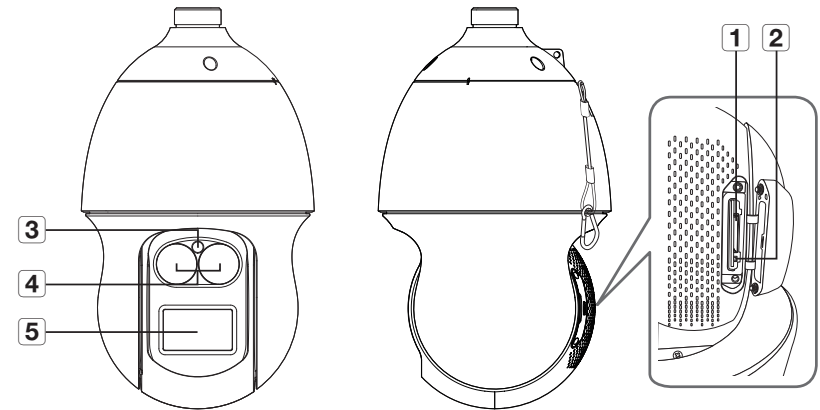
ОБЩИЙ ОБЗОР

Внешний вид



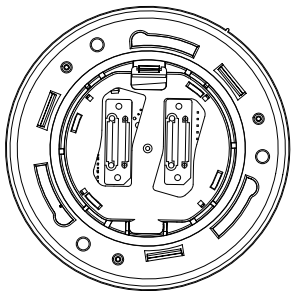
Элемент	Описание
1 Основная секция	Защищает внутренний механизм PTZ от воздействия прямых солнечных лучей, дождя и других внешних воздействий.
2 Крышка	Крышка для защиты объектива и самого устройства.
3 Предохранительный трос	Трос предохраняет изделие от падения при установке.

Внутренняя часть

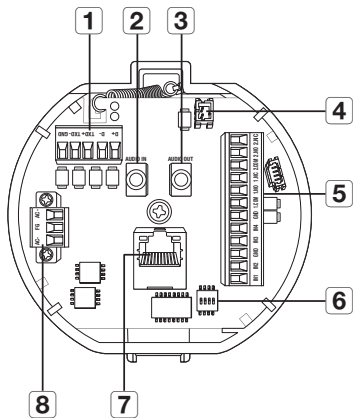


Элемент	Описание
1 Отсек для карты памяти SD	Отсек для карты памяти SD. ☑ См. Раздел <Вставление/извлечение карточки памяти SD> для определения положения установки карты памяти SD. (стр. 14)
2 Кнопка сброса	Восстановление заводских настроек по умолчанию для всех параметров камеры. Для перезагрузки системы нажмите и удерживайте в течение 5 секунд. ■ Если сбросить настройки камеры, то сетевые настройки позволят активировать DHCP. Если в сети 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.
3 Светочувствительный датчик	Обнаруживает поступающий свет для управления инфракрасным светодиодом.
4 Инфракрасный светодиод	Инфракрасные светодиоды управляются светочувствительным датчиком.
5 Объектив	Объектив видеокамеры.

Основание для установки
- вид снизу



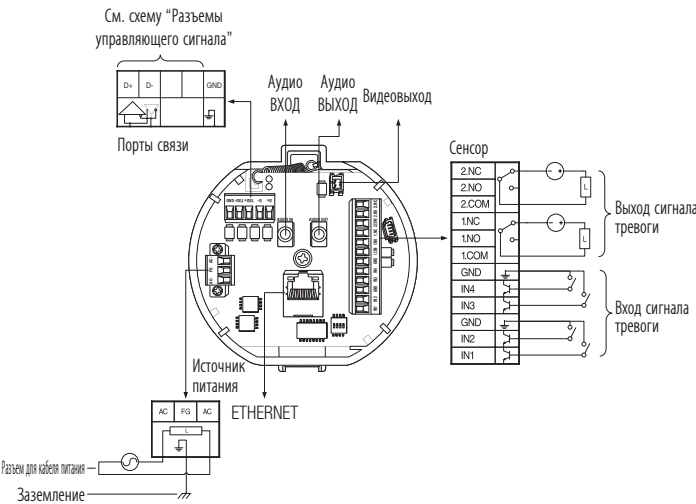
Основание для установки
- вид изнутри



Элемент	Описание
1 Порты связи	Используются для связи через RS-485.
2 Порт аудиовхода	Подключение кабеля аудиовхода.
3 Порт аудиовыхода	Подключение кабеля аудиовыхода.
4 Порт видеовыхода	Порт аналогового видеовыхода. (для установки)
5 Порт ввода-вывода тревог	Используется для подключения кабеля ввода-вывода тревог.
6 Переключатель настройки связи	Установите коммуникационный протокол (RS-485) и укажите, требуется ли оконцовка.
7 Сетевые подключения	Порт подсоединения к локальной сети с помощью кабеля Ethernet.
8 Порт питания	Используется для подключения кабеля питания.

Плата проводного интерфейса камеры

Детали электропроводки камеры представлены на рисунке ниже.

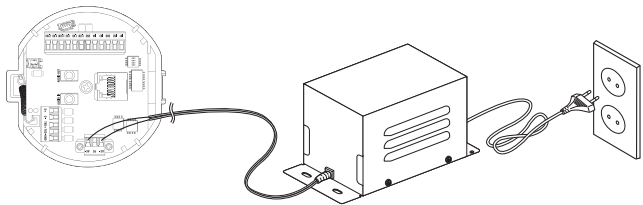


- Выберите опцию "Нормально открытый" в меню установки.
 - Входной разъем сенсора активируется при коротком замыкании для контактного типа, или когда он находится на уровне "Низкий" для активного типа.
- Выберите опцию "Нормально закрытый" в меню установки.
 - Входной разъем сенсора активируется при размыкании цепи для контактного типа или при нахождении в режиме высокого импеданса (разомкнутый коллектор) для активного типа.
- 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 их них подключен к соответствующему разъему.
- Для подключения продуктов, мощность которых выше мощности камеры, используйте дополнительное релейное устройство.
- Если кабели питания и заземления подключены неправильно к разъемам NC/NO или COM, это может привести к возгоранию или поломке оборудования.

ПОДКЛЮЧЕНИЕ К ДРУГОМУ УСТРОЙСТВУ

Подготовка адаптеров и кабелей

- Подсоедините камеру к адаптеру питания. Затем подключите кабель адаптера к сетевой розетке.



Перед выполнением подключений проверьте номинальное напряжение и силу тока.

Номинальная мощность	Допустимое входное напряжение	Потребление тока
24 В перем. тока	22-26 В перем. тока	6 А

- Это изделие нельзя использовать при температуре окружающей среды -50°C и ниже.
- Это изделие нельзя размораживать, в зависимости от зоны установки, при температуре -50°C.
- После того, как этот продукт был оставлен на морозе, для начала его нормальной работы потребуется до 2 часов.
- Скорость увеличения регулятора освещенности ИК может снизиться при температуре -40°C и ниже.
- Если изделие было включено после нахождения на морозе -20°C и ниже в течение некоторого времени, сбросьте время.

Сопротивление медного провода при [20°C (68°F)]

Сортамент медного провода (AWG)	№24 (0,22 кв. мм)	№22 (0,33 кв. мм)	№20 (0,52 кв. мм)	№18 (0,83 кв. мм)
Сопротивление (Ω/м)	0,078	0,050	0,030	0,018
Падение напряжения (В/м)	0,028	0,018	0,011	0,006
Рекомендуемое расстояние (м)	Менее 20	Менее 30	Менее 30	Менее 30

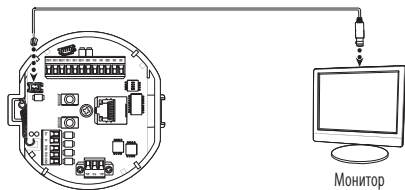
- Согласно вышеприведенной таблице, величина снижения напряжения зависит от длины провода. Поэтому использование слишком длинного провода для подключения камеры может отрицательно повлиять на ее работу.
 - Рабочее напряжение камеры: 24 В±10% перем. тока
 - Реальные значения падения напряжения могут отличаться от представленных в таблице и зависят от типа медного кабеля и его производителя.

Подключение к сети Ethernet

Подключите кабель Ethernet к локальной сети или к Интернету.

Подключение монитора

Подключите кабель к выходному видеоразъему на задней панели камеры и 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.

УСТАНОВКА

Подготовка и установка кронштейна камеры

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

Доступные модели кронштейнов

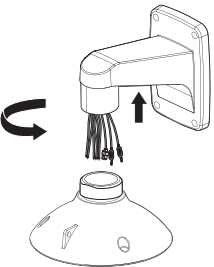
Модель	Позиция
SBP-300WM1	Настенное крепление
SBP-300WM	
SBP-300CM	Установка на потолке
SBP-300LM	Крепление на парапет
SBP-300KM	Угловое крепление
SBP-300PM	Крепление к опоре

- !
- Внешний вид каждого кронштейна (продаются отдельно) можно посмотреть в разделе "Дополнительные принадлежности для установки". (стр. 12)

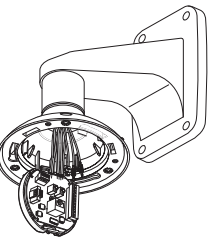
Установка с помощью настенного крепления

■ Фиксация основания для установки на кронштейне

1. Зафиксируйте основание на кронштейне, повернув его в направлении часовой стрелки.



2. Как показано на рисунке ниже, слегка нажмите и приподнимите ручку на навесной двери, которая находится в нижней части основания для установки. Подсоедините провода, выполнив инструкции раздела "Плата проводного интерфейса камеры" на стр. 9.

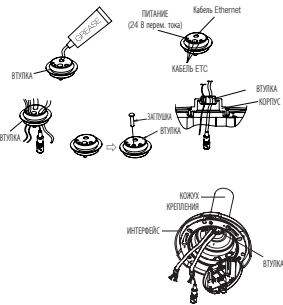


- !
- Не подключайте камеру к сетевой розетке до тех пор, пока установка не будет полностью завершена. Поддача питания в процессе установки может привести к возгоранию или повреждению продукта.

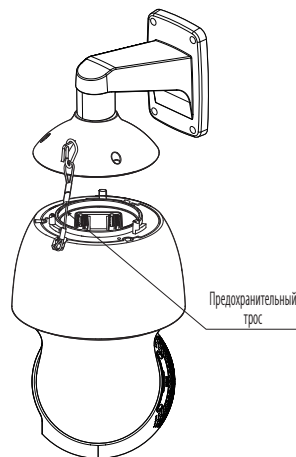
- ✓ Проверьте способ подсоединения кабеля и подключите его.

- Следует иметь в виду, что прилагаемые **ВТУЛКИ** предназначены для установки на улице, где они будут подвержены воздействию влажности через **ТРУБКУ** или **КРЕПЕЖ**. Для предотвращения попадания влаги используйте **ВТУЛКУ** при установке **КОРПУСА**.

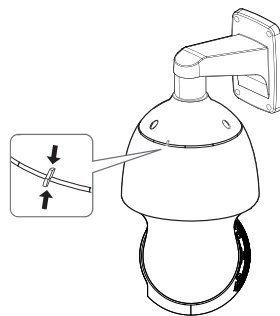
- Перед сборкой нанесите соответствующее количество смазки на **ВТУЛКУ**, а затем пропустите кабели через каждое отверстие втулок. Для закрытия отверстий, через которые не проходят кабели, используйте **ЗАГЛУШКИ**.
- Соберите **ВТУЛКИ** с верхней стороны **КОРПУСА** внутри, как показано на следующем рисунке. Быстро равномерно надавите на **ВТУЛКУ**, чтобы прочно закрепить ее в **КОРПУСЕ**, как показано на рисунке.



3. Подсоедините предохранительный трос камеры к основанию для установки.

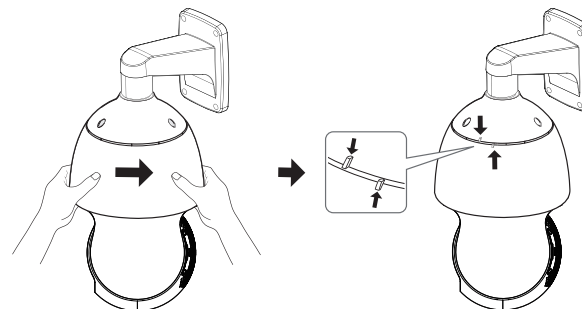


4. Сборка камеры и основания для установки. Соедините основание для установки и камеру, сопоставив установочные метки этих двух частей.



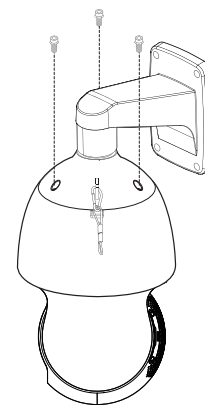
5. Крепление камеры.

Поверните основной корпус камеры по часовой стрелке так, чтобы расположить опорные метки на верхней и нижней секциях так, как показано на рисунке.



6. Крепление камеры и основания для установки.

Закрепите установочное основание и камеру винтами с шестигранным шлицем.



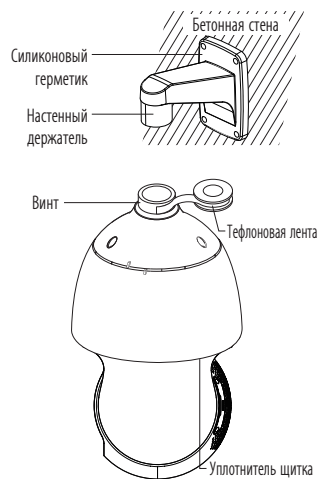
Замечания по обеспечению водонепроницаемости

Эта модель представляет собой интегрированный продукт для наружной установки.

■ Фиксация крепежного элемента на основном корпусе для настенного монтажа.

1. Закрепите настенный держатель на вертикальной стене. При монтаже на наклонную стену, влага может попадать в корпус через внешний кабель.
2. Оберните винтовую часть корпуса достаточным количеством тефлоновой ленты для монтажа.
3. Убедитесь, что прокладка не отошла от крышки во время снятия крышки и установки на корпус изделия.
4. Установите держатель настенного крепления для обеспечения водонепроницаемости и используйте силиконовый герметик между стеной и настенным держателем и вокруг стены и настенного держателя для уплотнения.

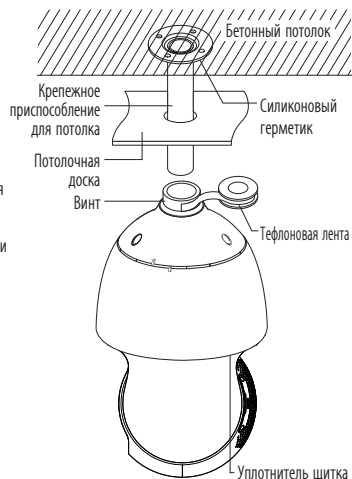
■ Обратите особое внимание на обеспечение надлежащего уплотнения, если поверхность, на которую проводится монтаж, не является плоской.



■ Фиксация крепежного элемента на основном корпусе и настенном адаптере для установки не стене.

1. Оберните винтовую часть корпуса достаточным количеством тефлоновой ленты для монтажа.
2. Убедитесь, что прокладка не отошла от крышки во время снятия крышки и установки на корпус изделия.
3. Установите крепежное приспособление для потолка для обеспечения водонепроницаемости и используйте силиконовый герметик между стеной и потолочным креплением и вокруг стены и потолочного крепления для уплотнения.

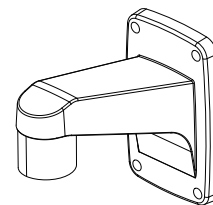
■ Обратите особое внимание на обеспечение надлежащего уплотнения, если поверхность, на которую проводится монтаж, не является плоской.



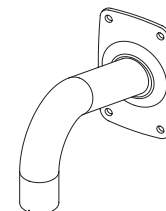
Дополнительные принадлежности для установки

Для упрощения установки можно приобрести дополнительные принадлежности.

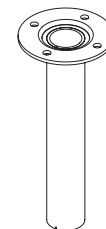
1. Если камера устанавливается на стене
 - Настенное крепление (SBP-300WM1)



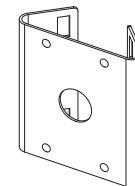
- Настенное крепление (SBP-300WM)



2. Если камера устанавливается на потолке
 - Установка на потолке (SBP-300CM)

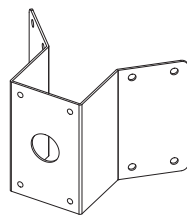


3. Если настенное крепление (SBP-300WM/SBP-300WM1) устанавливается на цилиндре длиной не менее 80 мм
 - Крепление к опоре (SBP-300PM)



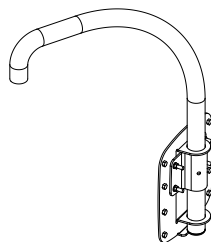
4. Если настенное крепление (SBP-300WM/SBP-300WM1) устанавливается в углу стены

- Угловое крепление (SBP-300KM)

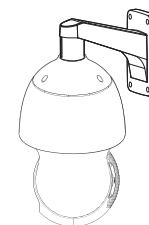


5. Если установка выполняется на крыше здания

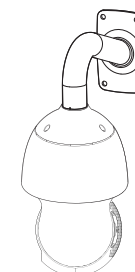
- Крепление на парапет (SBP-300LM)



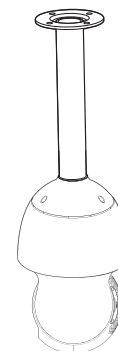
■ Монтажное соединение



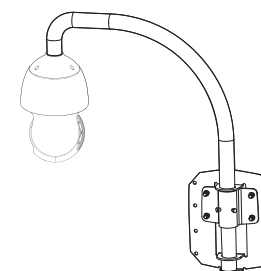
Настенное крепление
(SBP-300WM1)



Настенное крепление
(SBP-300WM)



Установка на потолке
(SBP-300CM)



Крепление на парапет
(SBP-300LM)

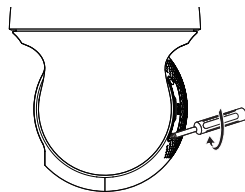
ВСТАВЛЕНИЕ/ИЗВЛЕЧЕНИЕ КАРТОЧКИ ПАМЯТИ SD

- ❗ Прежде чем вставлять карту памяти SD, отсоедините кабель питания от камеры.
- Не рекомендуется извлекать SD-карту памяти в дождливую либо очень сырую погоду.
- Затяните винты при сборке корпуса камеры, щитка и кронштейна держателя SD, чтобы предотвратить попадание влаги.
- При монтаже или демонтаже карты памяти SD сначала установите основной корпус на пол, чтобы предотвратить случайную потерю частей и падение.

Вставление карточки памяти SD

1. Ослабьте два винта на кронштейне держателя SD, повернув их с помощью отвертки против часовой стрелки.

- ❗ Не снимайте винты.

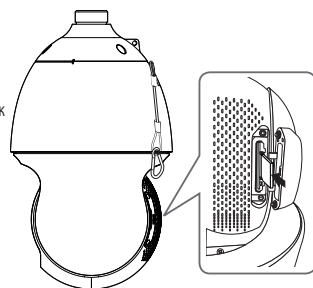


2. Потяните кронштейн держателя SD вверх и нажмите на карту памяти SD в направлении стрелки, как показано на рисунке.

- ❗ Правильно расположенная карта памяти SD вставляется без усилия. Принудительная установка карты памяти SD не той стороной может привести к ее повреждению.

3. После вставки карты памяти SD соберите камеру в порядке, обратном разборке.

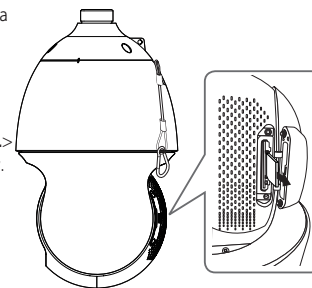
- ❗ При сборке камереер затяните винты, чтобы предотвратить попадание в нее влаги.



Извлечение карточки памяти SD

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

- ❗ Если нажать на карту памяти слишком сильно, а затем отпустить, она может выскочить из разъема.
- Перед тем как удалять карту памяти, переведите устройство в режим <Выкл.> в меню <Накопитель>. Затем нажмите [Применить] и выключите камеру.
- Если вы выключите камеру или извлечете из продукта карту памяти SD, содержащую данные, то эти данные могут быть потеряны или повреждены.

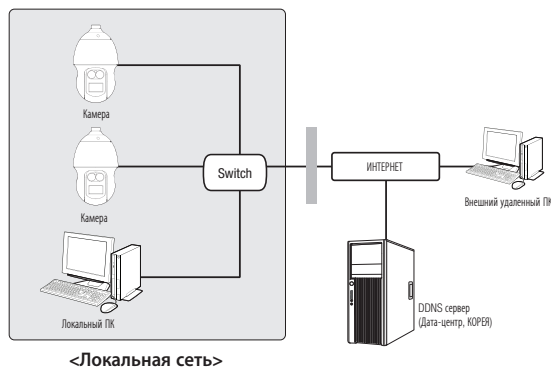


Можно выставить сетевые настройки согласно сетевой конфигурации.

ПОДКЛЮЧЕНИЕ КАМЕРЫ НАПРЯМУЮ К ЛОКАЛЬНОЙ СЕТИ

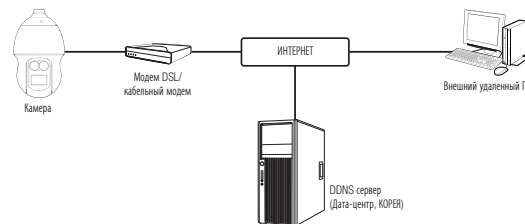
Подключение к камере через локальный ПК в локальной сети

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.
- В Device Manager для установки IP-адреса, маски подсети, шлюза, порта HTTP, порта VNP и типа IP можно использовать исходный 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, нужно использовать Device Manager. Для получения дополнительной информации об использовании Device Manager см. раздел «Использование Device Manager». (Стр. 17)

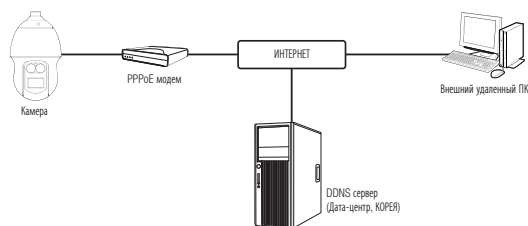
ПРЯМОЕ ПОДКЛЮЧЕНИЕ КАМЕРЫ К МОДЕМУ DSL/КАБЕЛЬНОМУ МОДЕМУ С ПОДДЕРЖКОЙ ПРОТОКОЛА DDNS



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.

ПОДКЛЮЧЕНИЕ КАМЕРЫ НАПРЯМУЮ К МОДЕМУ PPPoE

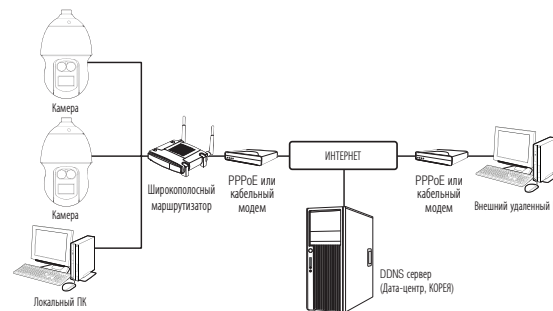


1. Подсоедините напрямую ПК пользователя с сетевой камерой.
2. Запустите Device Manager и измените IP-адрес камеры, чтобы можно было для подключения к Интернету использовать веб-браузер вашего компьютера.
3. Установите подключение к интерактивной программе просмотра в веб-браузере.
4. Перейдите на страницу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

ПОДКЛЮЧЕНИЕ КАМЕРЫ К ШИРОКОПОЛОСНЫЙ МАРШРУТИЗАТОР ЧЕРЕЗ PPPoE/КАБЕЛЬНЫЙ МОДЕМ

Используется в небольших сетях внутри домов, в маленьких офисах и обычных магазинах.



Настройка сетевых параметров локального ПК, подключенного к Широкополосный маршрутизатор

При настройке сетевых параметров локального ПК, подключенного к Широкополосный маршрутизатор, руководствуйтесь нижеследующей инструкцией.

- Выберите : **<Network>** → **<Properties>** → **<Local Area Connection>** → **<General>** → **<Properties>** → **<Internet Protocol (TCP/IP)>** → **<Properties>** → **<Obtain an IP address automatically>** или **<Use the following IP address>**.

- Следуйте данным инструкциям, если было выбрано **<Use the following IP address>**:

пр1) Если адрес (LAN IP) Широкополосный маршрутизатор 192.168.1.1

IP-адрес : 192.168.1.100
Маска подсети : 255.255.255.0
Основной шлюз : 192.168.1.1

пр2) Если адрес (LAN IP) Широкополосный маршрутизатор 192.168.0.1

IP-адрес : 192.168.0.100
Маска подсети : 255.255.255.0
Основной шлюз : 192.168.0.1

пр3) Если адрес (LAN IP) Широкополосный маршрутизатор 192.168.xxx.1

IP-адрес : 192.168.xxx.100
Маска подсети : 255.255.255.0
Основной шлюз : 192.168.xxx.1

- Чтобы узнать адрес Широкополосный маршрутизатор, обратитесь к документации изделия.
- Дополнительную информацию о переадресации портов на широкополосном маршрутизаторе см. в разделе **"Настройка Переадресации Диапазона Портов (Распределение Портов)"**. (Стр. 19)

ИСПОЛЬЗОВАНИЕ DEVICE MANAGER



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

АВТОМАТИЧЕСКИЙ ПОИСК КАМЕРЫ

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

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

НАСТРОЙКА IP-АДРЕСА

Чтобы изменить сетевые настройки камеры, в поле <Status (Состояние)> должен отображаться значок <Login OK (Вход 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.
- VNP Port : используется для управления передачей видеосигнала. Значение по умолчанию - 4520.
- RTSP Port: Порт, который управляет потоковой передачей в реальном времени. По умолчанию установлено значение 554.

В случае 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. 19)

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
	Subnet Mask	255.255.255.0
	Gateway	192.168.1.1
Настройки, связанные с портами	Порт HTTP	8080
	Порт VNP	4521
	Порт RTSP	555



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

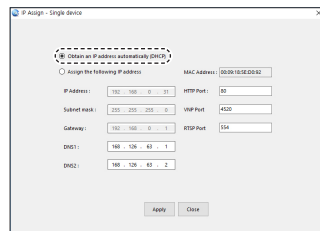
5. Нажмите кнопку [Применить].
6. Если появится сообщение об успешной настройке, нажмите [OK].

Настройка динамического IP-адреса

Получите IP-адрес от DHCP

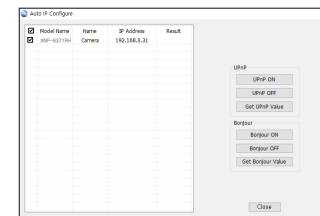
- Примеры динамического IP-окружения
 - Сервер DHCP назначает IP-адрес Широкополосный маршрутизатор с подключенными камерами.
 - Прямое подключение камеры к модему с помощью протоколов DHCP
 - Внутренний сервер DHCP назначает IP-адреса по локальной сети.

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



АВТОМАТИЧЕСКАЯ НАСТРОЙКА IP

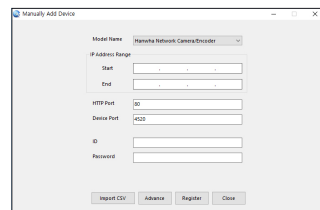
1. Выберите из списка камеру, для которой необходимо автоматически настроить параметры IP.
2. На главной странице Device Manager нажмите **< + >**.
 - Появится меню настроек оборудования.
3. Выберите в меню **<Auto IP Configure (Автоматическая настройка IP)>**.
4. Нажмите кнопку **[Close (Закрыть)]**.



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

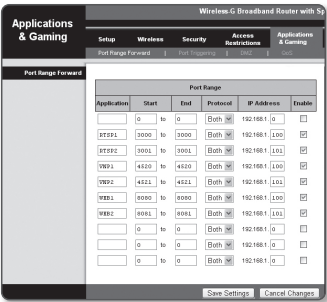


НАСТРОЙКА ПЕРЕАДРЕСАЦИИ ДИАПАЗОНА ПОРТОВ (РАСПРЕДЕЛЕНИЕ ПОРТОВ)

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.

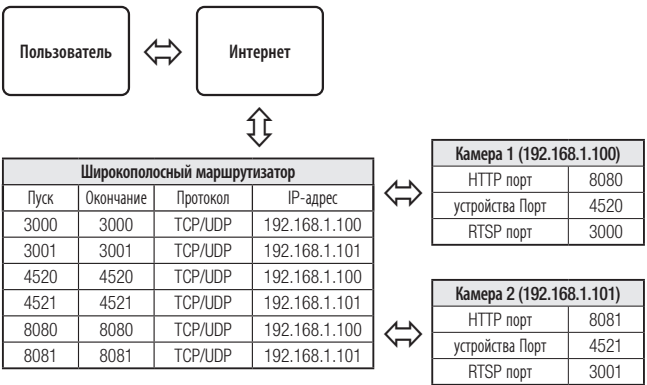


- Настройка переадресации портов является примером настройки IP-маршрутизатора CISCO.
- Параметры могут различаться в зависимости от модели Широкополосный маршрутизатор.
Для получения дополнительных сведений см. руководство пользователя соответствующего маршрутизатора.

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 <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>

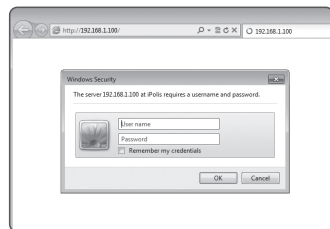


- Чтобы использовать DDNS, зарегистрируйтесь на домашней странице DDNS (<http://ddns.hanwha-security.com>) и зарегистрируйте продукт через меню **[Мой DDNS]> [Зарегистрировать продукт]**.

ПОДКЛЮЧЕНИЕ К КАМЕРЕ

Обычный порядок действий

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



Номер порта HTTP отличен от 80

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

Использование URL-адреса

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

! ■ Сетевое подключение выключено только в среде LAN.

Подключение через UPnP

1. Запустите систему клиента или операционную 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 напрямую к кабельному модему DHCP, модему DSL или модему PPPoE, то IP-адрес вашей сети будет изменяться при каждом подключении к серверу поставщика услуг Интернета. В этом случае вам не будет сообщаться об изменении IP-адреса, выполненном DDNS.

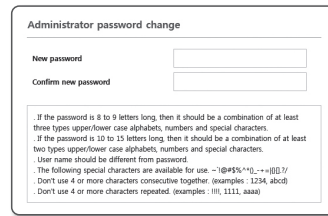
Если вы зарегистрируете устройство с динамическим IP-адресом на сервере DDNS, то во время доступа к этому устройству вы всегда можете проверить, как изменился его IP-адрес.

Чтобы зарегистрировать устройство на сервере <DDNS>, посетите веб-сайт <http://ddns.hanwha-security.com>. Сначала зарегистрируйте камеру, а затем задайте <Сеть> - <DDNS> для <DDNS> в программе Web Viewer, а также укажите <Код продукта>, который использовался для регистрации DDNS.

УСТАНОВКА ПАРОЛЯ

Когда доступ к продукту выполняется первый раз, необходимо зарегистрировать пароль входа в систему. Когда откроется окно **“Смена пароля”**, введите новый пароль.

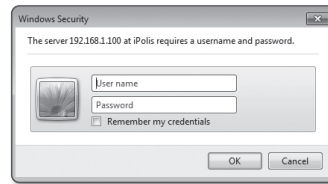
- Для нового пароля от 8 до 9 символов, необходимо использовать не менее 3 символов из числа следующих: строчные/прописные буквы, цифры и специальные символы. Для пароля от 10 до 15 символов необходимо использовать не менее 2 типов указанных символов.
 - Допускаются следующие специальные символы : ~!@#\$%^&*()_-=![];./
- 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.



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.

СПЕЦИФИКАЦИИ ПОДКЛЮЧАЕМЫХ ПРОГРАММНЫХ МОДУЛЕЙ ДЛЯ ВСЕХ БРАУЗЕРОВ

Теперь Web Viewer существует как в виде плагина, так и в виде самостоятельного сервиса. Благодаря этому Web Viewer можно использовать и с такими современными браузерами, как Chrome, Edge и Firefox (только 64-разрядная ОС Windows), где не поддерживаются плагины. Последние же рекомендуется устанавливать в браузеры Internet Explorer и Safari, которые предоставляют такую возможность. В зависимости от браузера возможны отличия, описанные ниже.

- **Браузеры Chrome, FireFox (только 64-разрядная ОС Windows), Edge и Safari** : Сервис Web Viewer позволяет просматривать изображение с камеры через Интернет, даже если в вашем браузере не поддерживаются плагины.
 - Сервис Web Viewer может работать медленнее, чем плагин Web Viewer. Это зависит от кода и разрешения видео.
 - Если во время трансляции видео наблюдаются задержки, автоматически создается профиль для сервиса (кодек H.264, разрешение 1280 x 720, 20 кадров в секунду).
 - Во время воспроизведения возможны задержки. Это зависит от кода и разрешения видео.
 - Сервис Web Viewer оптимизирован для браузера Chrome.
- **Браузеры Internet Explorer и Safari** : Можно использовать Web viewer, даже если имеющийся подключаемый программный модуль Web viewer не установлен.
 - Для бесперебойного наблюдения/воспроизведения сохраненного видео необходимо установить подключаемый программный модуль.

УСТАНОВКА ДОПОЛНИТЕЛЬНОГО МОДУЛЯ WebViewer

Если вы открыли сервис Web Viewer в браузере Internet Explorer и пытаетесь использовать какие-либо функции (например, посмотреть трансляцию или воспроизвести записанное видео), появится запрос на установку плагина. Его необходимо установить, чтобы получить доступ к нужным функциям.

1. При самом первом обращении к странице мониторинга отображается страница установки. Кликните на [\[Click Here\]](#), чтобы начать установку.

■ Если статус загрузки установочного файла плагина приостанавливается на 99% в браузере Internet Explorer, попробуйте еще раз после выбора "Оключить фильтр SmartScreen" в "Инструменты → фильтр SmartScreen".

2. Кликните **[Run]** в окне сообщений.

3. Кликните **[Yes]** когда в окне-примечании появится сообщение о том, что все окна браузеров будут закрыты.

■ Шаги 4 и 5 будут пропущены, если плагин Web Viewer не установлен.

4. Если установлена старая версия плагина Web Viewer, отобразится сообщение в окне-примечании, что старая версия будет удалена. Кликните **[Yes]** когда появится окно-примечание.

5. Кликните **[OK]**.
Старая версия плагина Web Viewer удалена.

6. Кликните **[Install]**, чтобы начать установку плагина Web Viewer.

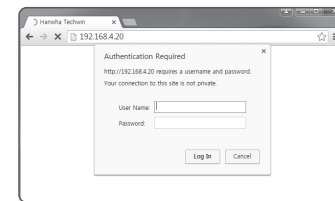
7. Кликните **[Finish]**.
Установка плагина Web Viewer завершена.

■ В веб-браузере после установки подключаемого модуля webviewer проверьте, установилась ли кнопка webviewer_activexplugin_lib.control из меню "Инструменты → Управление дополнительными функциями" в состояние "Активировано". Если нет, и если имеется неустранимая проблема, выберите "Инструменты → Опции Интернет → Общие" и удалите все записи поиска. Если это не поможет устранить проблему, откройте в браузере меню «Сервис → Свойства обозревателя → Безопасность → Надежные узлы» и укажите домен или IP-адрес камеры.

ИСПОЛЬЗОВАНИЕ ПОДКЛЮЧАЕМОГО ПРОГРАММНОГО МОДУЛЯ ВЕБ-ПРОСМОТРА

Пользователям Google Chrome, Mozilla Firefox и Microsoft Edge не понадобится устанавливать плагин. Они смогут смотреть трансляцию видео и без этого.

1. Для входа в систему введите свои имя пользователя и пароль.
2. После входа в систему появится экран с прямым изображением от камеры.



НАСТРОЙКА WEB VIEWER

1. Щелкните по значку **[Настройка (⚙)]**.
2. Откроется окно настроек.
3. Можно управлять по сети настройками базовой информации о камере, PTZ, видео и аудио, сети, событий, анализа, системы и открытой платформы.
4. Выберите **<Справка (🔍)>** для просмотра подробного описания каждой функции.

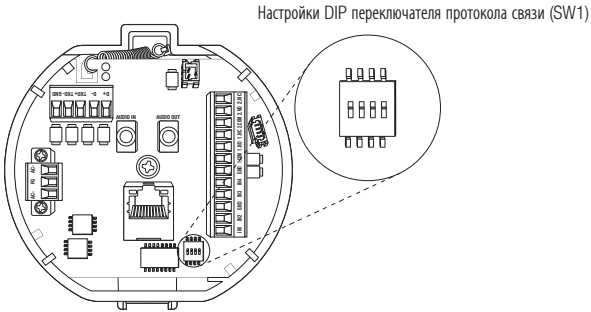
НАСТРОЙКА DIP-ПЕРЕКЛЮЧАТЕЛЯ

Настройка протоколов и DIP переключателей ID

С помощью DIP переключателей связи и ID можно управлять различными настройками системы камеры. Перед установкой продукта настройте DIP переключатели в соответствии со средой установки.

- 1. Настройте переключатели в соответствии со средой установки. Более подробная информация о настройке представлена в таблице на следующей странице.
- 2. Если переключатели будут переведены в положение включения/выключения не полностью, в работе камеры могут происходить сбои; до завершения настройки дважды проверьте положение переключателей.
- 3. Осторожно – при использовании острых предметов переключатель может быть поврежден.
- 4. Осторожно – при работе с большим усилием переключатель может быть поврежден.

Настройки DIP



переключателя протокола связи (SW1)



Номер контакта SW1	Назначение
1	Резерв
2	Настройка прерывания 1
3	Настройка прерывания 2
4	Резерв

• Настройки прерывания

Чтобы предотвратить ослабление сигналов связи между камерой и контроллером, для камер на концах линии необходимо задать настройки прерывания.

Расположение входа камеры	SW1-№2	SW1-№3
Прерывание самой длинной ветви	ON	ON
На ветви	OFF	OFF

- В каждой таблице параметров значение по умолчанию затенено.
- Если требуется использовать с данным продуктом контроллер стороннего производителя, обратитесь за консультацией в отдел сервисного обслуживания или технологический отдел.

ПОДКЛЮЧЕНИЕ КАМЕРЫ

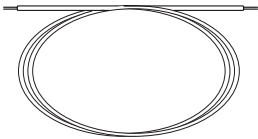
Разъемы управляющего сигнала

- Связь по RS-485



Кабель связи

Для установки связи камеры с контроллером требуется линия связи RS-485.



- Рекомендуемая длина кабеля, используемого для подключения, должна составлять 30 м или меньше.
- Кабель связи не должен находиться в одном корпусе с камерой.

ХАРАКТЕРИСТИКИ

	Элементы	Описание
Видео	Устройство обработки изображения	1/2" 2,17M CMOS
	Общее количество пикселей	1952(Г) x 1113(В), 2,17M
	Количество эффективных пикселей	1937(Г) x 1097(В), 2,12M
	Система сканирования	Прогрессивная
	Мин. освещенность	Цветное: 0,01 люкс (1/30 с, F1,5) Ч/Б: 0 люкс (ИК светодиод включен)
	Соотношение сигнал/шум	50dB
	Видеовыход	CVBS : 1.0 Vp-p / 75Ω композитный, 720x480(N), 720x576(P), Для установки
Объектив	Фокусное расстояние (коэффициент трансфокации)	6–222 мм (37-кратное оптическое увеличение)
	Макс. относительное отверстие	F1,5(широкоуг.) / F4,6(теле)
	Угловое поле зрения	Г : 59,3°(широкоуг.) ~ 1,9°(теле) / В : 35,8°(широкоуг.) ~ 1,1°(теле)
	Мин. расстояние до объекта	Широкоугольный (1,5 м), длиннофокусный (2 м)
	Регулятор фокусировки	Автоматический, ручную, одномоментный фокус
	Тип объектива	Автоматическая диафрагма
	Тип крепления	Встроенное
Панорама/Наклон/ Поворот	Диапазон панорамирования	360° до бесконечности
	Скорость панорамирования	Предуст.: 400°/сек, Ручную: 0,024°/сек - 250°/сек
	Диапазон наклона	190°(-5° ~ 185°)
	Скорость наклона	Предуст.: 300°/сек, Ручную: 0,024°/сек - 250°/сек
	Чередование	Предустановки (300 шт.), качание, группа (6 шт.), слежение, тур, автозапуск, расписание
	Точность предустановки	±0.2°
	Азимут	Да (Е / W / S / N / NE / NW / SE / SW OSD)
	Автоматическое слежение	Выкл. / Вкл.

	Элементы	Описание
Рабочие характеристики	Название камеры	Выкл. / Вкл (отображается до 85 знаков) - Общемировые: Английские/Цифровые/Специальные символы - Общие: Многострочный (до 5), цвет (серый/зеленый/красный/синий/черный/белый), прозрачность, автоматическое масштабирование по разрешению
	День/Ночь	Авто (ICR) / Цвет / Ч/Б / Расписание
	Компенсация подсветки	Выкл. / BLC / HLC / WDR
	Широкий динамический диапазон	150dB
	Улучшение контрастности	SSDR (Выкл./Вкл.)
	Цифровое шумоподавление	SSNR5 (фильтр шумов 2D+3D) (Выкл./Вкл.)
	Цифровая стабилизация изображения	Выкл./вкл. (встроенный гироскоп)
	Защита от злостеования (Optical)	Abto / Ручную / Выкл.
	Детектор движения	Вкл./выкл. (8 точек замера, прямоугольные зоны)
	Зоны маскирования	Выкл. / Вкл. (24 прямоугольные зоны) - Цвет: Серый / Зеленый / Красный / Синий / Черный / Белый - Опция коэффициента увеличения для режима маскирования - Функция мозаики
	Регулировка усиления	Выкл. / Низкий / Средний / Высокий
	Баланс белого	ATW/AWC/ручную/внутри/снаружи (также учитывается свет ртутных и натриевых ламп)
	Скорость электронного затвора	Мин/Макс/Подавление мерцаний (2 ~ 1/12 000 с)
	Цифровая трансфокация	32x
	Поворот изображения	Переверот / Зеркальное отображение : Вкл. / Выкл.
	Анализ изображения и звука	Обнаружение взлома, передвижения, направления, виртуальная линия, вход/выход, появление/исчезновение, обнаружение звука, распознавание лица, детектор движения, обнаружение тумана, классификация звука
	Последовательный интерфейс	RS-485 - Samsung-T, Pelco-D/P, Panasonic, Bosch, AD, GE, Vicon, Honeywell
	В/В сигнала	Вход 4 шт./Выход 2 шт. (Вид ретрансляции)
	Триггеры сигналов тревоги	Вход сигнализации, обнаружение движения, Анализ изображения и звука, отключение локальной сети

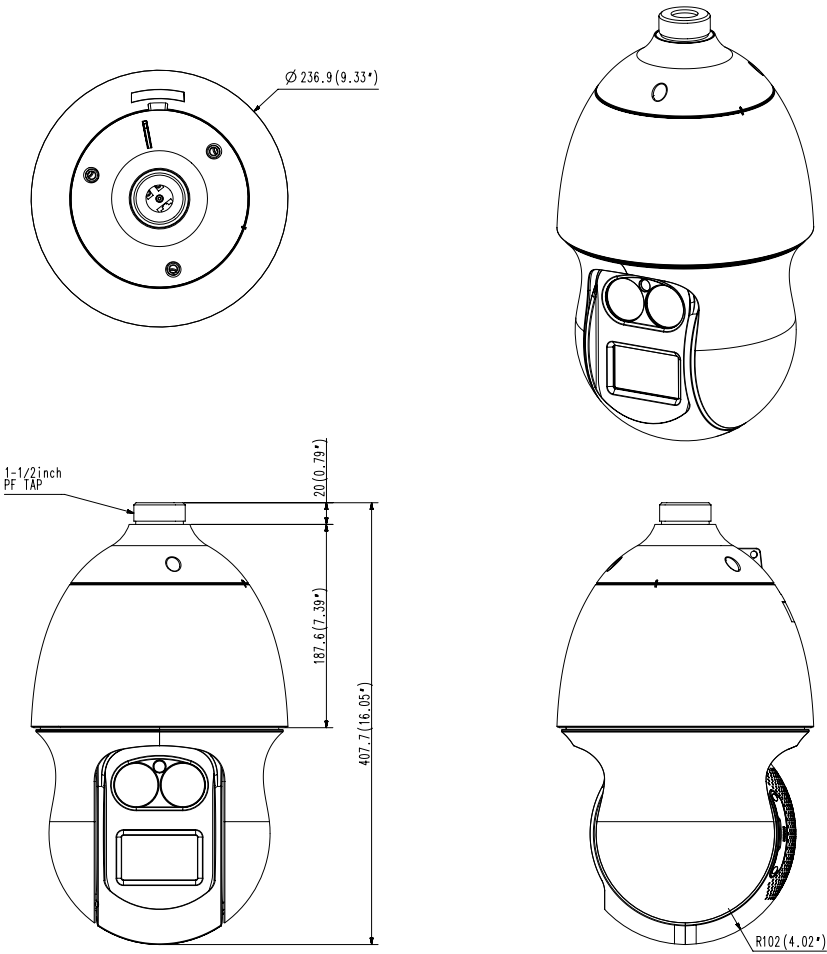
Элементы		Описание
Рабочие характеристики	События тревоги	- Выгрузка файла через FTP, электронную почту - Оповещение по электронной почте, протоколам TCP и HTTP - Локальный носитель (SD/SDHC/SDXC), или NAS запись при наличии события (триггеры сигналов тревоги) - Внешний выход - Предустановка PTZ
	Аудио вход	На выбор (вход Mic IN / вход Line IN), Сетевое напряжение: 2,5 В постоянного тока (4 мА), входное сопротивление: приблизительно 2 кОм
	Аудио выход	Линейный выход (гнездо монофонического выхода 3,5 мм), макс. выходной уровень: 1 В дейст.
	Счетчик пикселей	Поддержка
Сеть	Ethernet	RJ-45 (10/100BASE-T)
	Формат сжатия видео	H.264 (MPEG-4 часть 10/AVC), H.265, Движение JPEG
	Разрешение	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
	Макс. частота кадров	H.265/H.264: До 60 кадр/с при всех разрешениях Motion JPEG: До 30 кадр/с при всех разрешениях
	Технология Smart Codec	Ручной режим (на основе зон: 5 зон)
	Настройка качества видео	для H.264/H.265/MJPEG : Управление скоростью передачи
	Способы управления скоростью передачи бит	H.264/H.265: Постоянная или переменная скорость передачи данных с WiseStream Движение JPEG : VBR
	Возможности потоковой передачи	Многопотоковая (до 10 профилей)
	Формат сжатия звука	G.711 u-law /G.726, выбирается G.726 (ADPCM) 8 кГц, G.711 8 кГц G.726 : 16 кбит/с, 24 кбит/с, 32 кбит/с, 40 кбит/с AAC-LC: 48 кбит/с при 16 кГц
	Аудиосвязь	Двунаправленный

Элементы		Описание
IP		IPv4, IPv6
Протокол		TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour
Безопасность		Проверка подлинности при входе HTTPS (SSL); проверка подлинности при входе Digest; фильтрация IP-адресов; регистрация доступа пользователей Способ проверки подлинности 802.1x (EAP-TLS, EAP-LEAP)
Способ потоковой передачи		Одноадресная / многоадресная
Макс. количество пользователей		20 пользователей в одноадресном режиме
Функция Edge Store		SD/SDHC/SDXC (до 128GB) - Можно загрузить изображения движения, записанные на карте памяти SD/SDHC/SDXC. - Камера может обнаруживать движение автоматически, если память подключена. - Отображение состояния памяти (Готово/Ошибка/Запись/Форматирование/Заблокирована) NAS (сетевое хранилище данных) Локальный ПК для мгновенной записи (просмотр только через программный подключаемый модуль)
Интерфейс прикладного программирования		ONVIF Profile S/G SUNAPI 2.0(HTTP API) Открытая платформа WiseNet
Язык веб-страницы		Английский, Французский, Немецкий, Испанский, Итальянский, Китайский, Корейский, Русский, Японский, Шведский, Португальский, Чешский, Польский, Турецкий, Голландский, Венгерский, Греческий
Веб-обозреватель		Поддерживаемые ОС : Windows 7 / 8.1 / 10, MAC OS X 10.10, 10.11, 10.12 Дополнительный программный модуль Free web viewer Поддерживаемые браузеры: Google Chrome, Microsoft Edge, Mozilla Firefox (только 64-разрядная ОС Windows), Apple Safari 10 (только Mac OS X) Webviewer с дополнительным программным модулем Поддерживаемые браузеры: Microsoft Internet Explorer 11, Apple Safari 10 (только Mac OS X)
ПО для центрального управления		SmartViewer

Элементы	Описание
Условия	Рабочая температура/влажность от -50°C до +55°C (-58°F до +131°F) / Относительная влажность менее 90%.
	Температура хранения/влажность от - 50°C до +60°C (- 58°F до +140°F) / Относительная влажность менее 90%.
	Пыле- и влагозащита IP66
	Антивандальная защита IK10
Электропитание	Входное напряжение/сила тока Переменный ток, 24 В ±10 %
	Потребляемая мощность 90W(Подогреватель Вкл., ИК светодиоды Вкл.), 60W(Подогреватель Выкл., ИК светодиоды Вкл.)
Физические характеристики	Цвет/материал Черная (головка) + спонсовая кость (корпус)/Пластик, металл
	Размеры (Ø x В) Ø236,9 x 8407,7 mm
	Вес 7,1кг

ПРИЛОЖЕНИЕ

Единицы измерения: мм (дюймы)



ПОИСК И УСТРАНЕНИЕ НЕПОЛАДОК

ПРОБЛЕМА	РЕШЕНИЕ
Чувствительность микрофона изменяется при использовании Web Viewer через Chrome или Firefox в Windows 10.	Это происходит, если установлен драйвер микрофона от Realtek. Используйте стандартный драйвер High Definition Audio из состава Windows или сторонний драйвер.
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. - Может произойти разрыв соединения при плохой связи, если камера подключена к PPPoE.
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.

ПРОБЛЕМА	РЕШЕНИЕ
Звук не записывается, даже если настроен аудиовход.	Откройте меню <Основные> — <Параметры видео> и установите флажок <Аудио вход>.
После установки переключателя <Детектор движения> в положение <Активировать> (меню <Аналитика>) не отправляются файлы по электронной почте, хотя происходят отслеживаемые события.	- 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 SD.	Проверьте, исправна ли карта памяти.
Карта памяти 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>.
Не удается произвести запись в NAS.	Убедитесь в том, что информация, зарегистрированная в NAS, указана верно.
Это сообщение о том, что настройка NAS не удалась.	- Убедитесь в том, что IP-адрес NAS введен правильно. - Убедитесь в том, что ID/пароль NAS введены правильно. - Убедитесь в том, что доступ к папке, установленной в качестве основной папки с использованием ID номера NAS, открыт. - Убедитесь в том, что с элементов NAS SMB/CIFS сняты флажки (выделения). - Убедитесь в том, что IP-адрес NAS и IP-адрес камеры имеют одинаковый формат. - Ex) Начальное значение маски подсети для NAS и камеры 255.255.255.0. Если IP-адрес 192.168.20.32, то IP-адрес NAS должен быть в диапазоне 192.168.20.1~192.168.20.255. - Проверьте, не осуществлялась ли попытка получения доступа под другим пользователем без форматирования основной папки (сохраненной или используемой). - Убедитесь в том, что используется рекомендуемое оборудование NAS.

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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	
zerocoinf	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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- Version 1.1

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For more information on the PHP Group and the PHP project, please see <http://www.php.net>. PHP includes the Zend Engine, freely available at <http://www.zend.com>.

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Component Name	License	URL
zlib-1.2.8	zlib / libpng	http://zlib.net/

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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 Vision заботится об окружающей среде и прилагает усилия для ее сохранения на всех этапах производства и предоставляет потребителям экологически безопасную продукцию. Знак Eco демонстрирует цель компании Hanwha Vision по созданию экологически безопасной продукции и указывает на соответствие изделия директиве ЕС RoHS.



Правильная утилизация данного устройства (Утилизация электрического и электронного оборудования)

(Действует во всех странах Европейского Союза и других странах Европы, принявших систему разделения отходов)

Подобная маркировка на изделии, принадлежностях или в руководстве к нему предупреждает, что по истечении срока службы изделие или электронные принадлежности для него (например, зарядное устройство, наушники, кабель USB) не следует выбрасывать вместе с другим бытовым мусором. Чтобы избежать вредного воздействия на окружающую среду или на здоровье человека от неконтролируемой утилизации отходов, следует отделять маркированные подобным образом изделия от другого мусора для соответствующей переработки и повторного использования в качестве сырья.

За подробной информацией о месте и способе экологически безопасной утилизации бытовым потребителям следует обращаться к продавцу данного изделия или в органы местного самоуправления.

Промышленным потребителям необходимо обратиться к поставщику, чтобы уточнить сроки и условия договора купли-продажи. Подобные изделия и электронные принадлежности не следует утилизировать вместе с другими производственными отходами.



Правила утилизации батарей данного изделия

(Действительны в Европейском Союзе и иных европейских странах с системами раздельной утилизации.)

Данная маркировка на батарее или упаковке указывает на запрет утилизации изделия с иными бытовыми отходами по окончании срока службы. При наличии маркировки, химические символы Hg, Cd или Pb указывают на содержание в батарее ртути, кадмия или свинца выше контрольных уровней, указанных в директиве ЕС 2006/66. При неправильной утилизации батарей, данные вещества могут нанести вред здоровью человека или окружающей среде. Для защиты природных ресурсов и поддержки повторного использования материалов рекомендуется хранить батареи отдельно от других типов отходов и утилизировать их через местную систему бесплатного возврата батарей.

Замена аккумуляторов, встроенных в данное изделие, пользователем не предусмотрена. Информация по замене аккумуляторов может быть получена у обслуживающей компании.



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