

КАМЕРА С ТЕПЛОВЫМ НАВЕДЕНИЕМ

Руководство пользователя

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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.) Не загромождайте никакие вентиляционные отверстия. Выполните установку изделия в соответствии с инструкциями изготовителя.
7. Не устанавливайте изделие рядом с источниками тепла, такими, как радиаторы, решетки системы отопления, или другими устройствами, которые генерируют тепло (включая усилители).
8. 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.
9. 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.
10. Пользуйтесь только теми приспособлениями/ принадлежностями, которые рекомендованы изготовителем.
11. 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.
12. Отсоединяйте устройство от сети во время грозы или если оно не используется в течение длительного времени.
13. 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.
14. Данное изделие предназначено для питания от утвержденных источников питания с маркировкой "Class 2" или "LPS" с номинальным выходом 24 В перем. тока (50 или 60 Гц), не менее .6 А.
15. Если при установке изделия прилагать чрезмерные усилия, возможно повреждение с нарушением работы камеры.
Если с силой устанавливать устройство, пользуясь неподходящими инструментами, возможно повреждение устройства.
16. 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.
17. 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.
18. 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.
19. 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 батарее 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.

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.

ОБЗОР 3	3	Важные правила техники безопасности
	6	Рекомендуемая Конфигурация Пк
	6	Рекомендуемая Конфигурация Карточки памяти Micro SD/SDHC/SDXC
	6	Рекомендуемые Технические Характеристики NAS
	7	Комплект Поставки
	8	Общий Обзор

УСТАНОВКА И ПОДКЛЮЧЕНИЕ 9	9	Установка
	10	Установка/извлечение карты памяти Микро SD
	11	Информация о Карточке Памяти (Не Включено)
	12	Подключение к Другому Устройству

СЕТЕВОЕ СОЕДИНЕНИЕ И НАСТРОЙКА 15	15	Подключение Камеры Напрямую к Локальной Сети
	15	Прямое Подключение Камеры к Модему DSL/кабельному Модему С Поддержкой Протокола DHCP
	16	Подключение Камеры Напрямую к Модему PPPoE
	16	Подключение Камеры к Широкополосный маршрутизатор Через PPPoE/кабельный Модем
	17	Использование Device Manager
	17	Автоматический поиск камеры
	17	Настройка IP-адреса
	18	Регистрация камеры вручную
	18	Автоматическая настройка IP
	19	Настройка Переадресации Диапазона Портов (Распределение Портов)
	20	Подключение к Камере с Локального Компьютера Общего Доступа
	20	Подключение к Камере с Удаленного Компьютера Через Интернет

ИНТЕРАКТИВНАЯ ПРОГРАММА ПРОСМОТРА 21	21	Подключение к Камере
	21	Установка пароля
	22	Вход
	22	Спецификации подключаемых программных модулей для всех браузеров
	22	Установка дополнительного модуля WebViewer
	22	Использование подключаемого программного модуля веб-просмотра

ПРИЛОЖЕНИЕ 23	23	Поиск и Устранение неполадок
	24	Open Source Announcement

РЕКОМЕНДУЕМАЯ КОНФИГУРАЦИЯ ПК

- Процессор : Intel(R) Core(TM) i7 3,4 Ггц или больше
- ОЗУ: 8 Гб или больше
- Поддерживаемые ОС : Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12
- Webviewer
Рекомендуемый браузер: Google Chrome 63
Поддерживаемые браузеры: Microsoft Internet Explorer 11, Microsoft Edge 41, Mozilla Firefox 57 (только в 64-разрядной ОС Windows), Apple Safari 11 (только в ОС Mac OS X)

РЕКОМЕНДУЕМАЯ КОНФИГУРАЦИЯ КАРТОЧКИ ПАМЯТИ MICRO SD/SDHC/SDXC

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

РЕКОМЕНДУЕМЫЕ ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ NAS

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

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

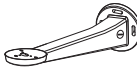


▪ Если предполагается использование оборудования NAS не только для хранения видеоматериалов, количество одновременно доступных камер может быть сокращено.

КОМПЛЕКТ ПОСТАВКИ

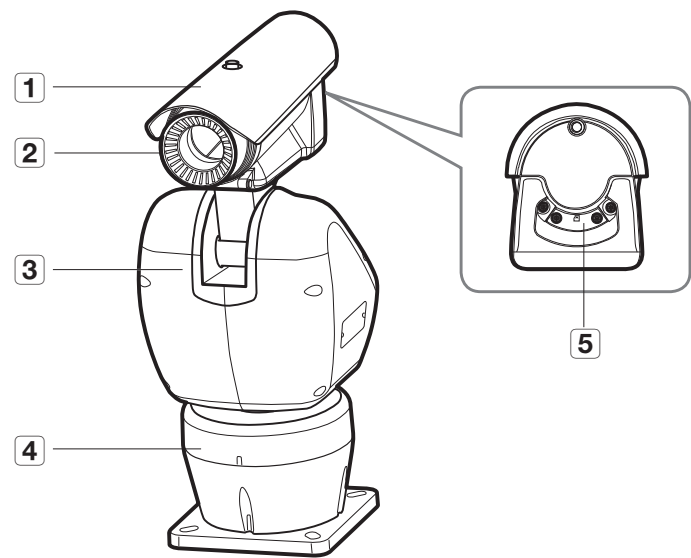
Проверьте наличие всех принадлежностей в комплекте поставки камеры.
(У изделий, продаваемых в разных странах, принадлежности могут отличаться.)

Внешний вид	Название элемента	Количество	Описание
	Корпус камеры	1	-
	Краткое Руководство (необязательно)	1	-
	Гарантийный талон (необязательно)	1	-
	Светозащитная блenda	1	Защищает камеру от воздействия прямых солнечных лучей.
	Держатель светозащитной бленды	1	Используется для закрепления светозащитной бленды на камере
	Звездообразный ключ	1	Для закрытия разъема карты памяти
	Комплектующий влагостойкий кабель RJ45	1	Используется при установке в сырых местах.

Внешний вид	Название элемента	Количество	Описание
Кронштейн для монтажа на стене (не входят в комплект)			
	Кронштейн для монтажа на стене	1	Используется при установке камеры на стене
	Плоские шайбы(M5 X 20)/ болты под ключ	3/3	Для соединения основного корпуса и кронштейна
	Болты(M3 x 8)	8	Для Присоединения Крышки Кабельного Канала
	Уплотнительное кольцо	1	Для соединения основного корпуса и кронштейна

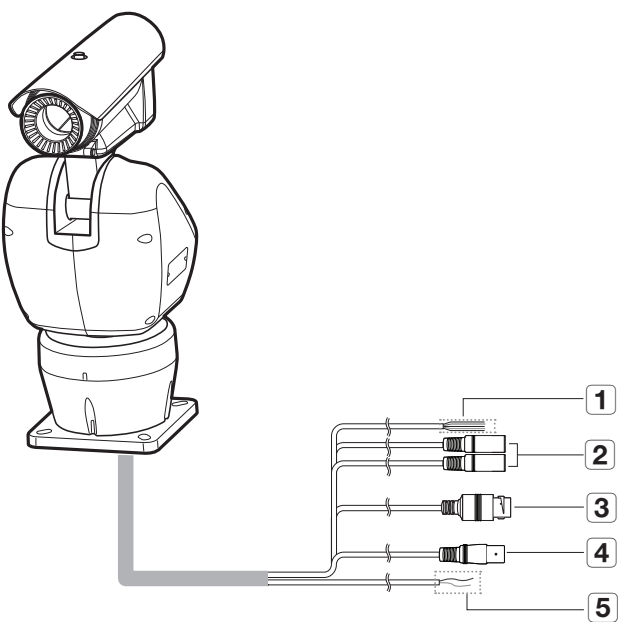
ОБЩИЙ ОБЗОР

Внешний вид



Элемент	
1	Солнечный козырек
2	Камера
3	Основной корпус
4	Кожух основания
5	Гнездо для карты памяти Micro SD

Кабели



Элемент	Описание
1 Кабель сигнализации	Кабель ввода-вывода сигнализации (черный/коричневый/красный/желтый/оранжевый)
2 Аудиокабель	Кабель ввода-вывода аудиосигнала.
3 Ethernet	Кабель для подключения Ethernet.
4 Кабель выхода видео	Служит для вывода видео.
5 Кабель питания	Кабель питания камеры (коричнево-синий)

УСТАНОВКА

Меры предосторожности, принимаемые перед установкой

Прежде чем устанавливать камеру, обязательно прочтите приведенные далее инструкции.

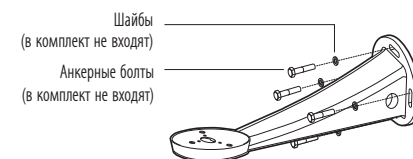
- Устанавливайте систему на основе следующих указаний. Если требуется установить другим методом, необходимо подтвердить рекомендации по безопасности, заранее сделав запрос производителю.
- Масса системы с упаковкой — 11,7 кг. Поднимая устройство, держите его за корпус, а не за камеру. Используйте прорезиненные перчатки, чтобы не выронить изделие.
- Установку необходимо выполнять в таком месте (на потолке или стене), которое может выдержать вес в 4 раз превышающий вес камеры, включая установочный кронштейн.
- 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.

Дополнительные принадлежности для установки

Для упрощения установки можно приобрести дополнительные принадлежности.

■ Установка на стене с использованием кронштейна

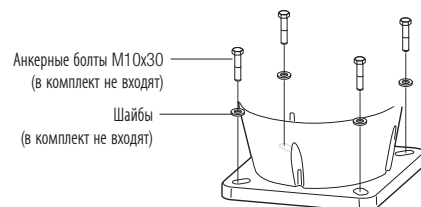
1. Закрепите кронштейн боком на стене 4 анкерными болтами (в комплект не входят).



- ! ■ Для установки камеры на бетоне рекомендуется использовать анкерные болты M10x30 или большие.
- Используйте болты, которые могут выдержать более четырехкратного веса оборудования.

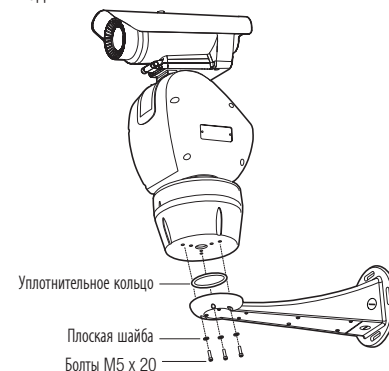
Установка устройства на полу

1. Установите основание на полу.

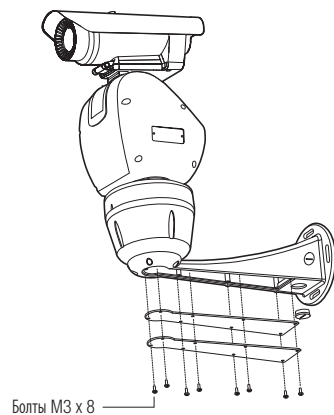


- ! ■ Для установки камеры на бетоне рекомендуется использовать анкерные болты M10x30 или большие.
- Используйте болты, которые могут выдержать более четырехкратного веса оборудования.

2. Сняните главный корпус и кронштейн 3-мя болтами под гаечный ключ.



3. После укладки кабелей, как показано на рисунке, установите крышку.



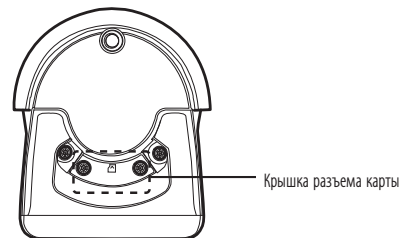
УСТАНОВКА/ИЗВЛЕЧЕНИЕ КАРТЫ ПАМЯТИ МИКРО SD



- Перед установкой карты Микро SD отключите кабель питания от камеры.
- Правильно расположенная карта памяти Микро SD вставляется без усилия. Принудительная установка карты памяти Микро SD не той стороной может привести к ее повреждению.
- Не рекомендуется вставлять или вынимать карту памяти Микро SD во время дождя или при высокой влажности.

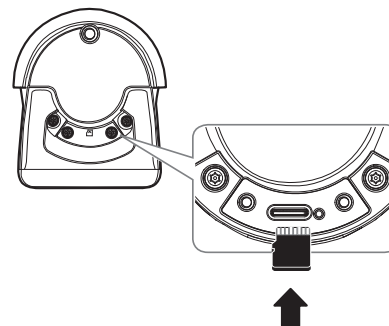
Снятие крышки с разъема карты Микро SD

Чтобы снять крышку с разъема, используйте ключ «звездочка».



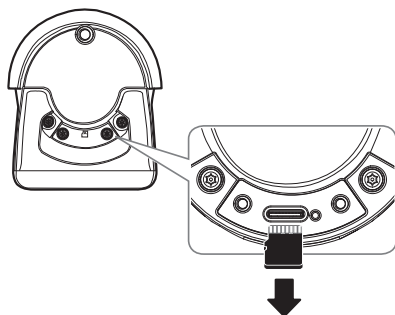
Установка карты памяти Микро SD

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



Извлечение карты памяти Микро SD

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



- При слишком сильном нажатии на карту памяти Микро SD она может “выстрелить” из разъема при отпускании пальца.
- 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.

ИНФОРМАЦИЯ О КАРТОЧКЕ ПАМЯТИ (НЕ ВКЛЮЧЕНО)

Что такое карточка памяти?

Карточка памяти - это устройство для внешнего хранения данных, разработанное чтобы обеспечить совершенно новый способ записи и обмена видео, аудио и текстовой информации посредством цифровых устройств.

Выбор наиболее подходящей карточки памяти

Данная камера поддерживает карты памяти Микро SD/SDHC/SDXC.

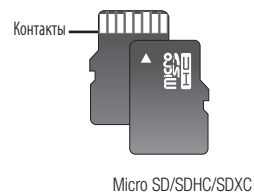
Могут возникнуть проблемы при использовании карточек других моделей и других производителей.

Для данной камеры рекомендуются карты памяти следующих типов указанных производителей.

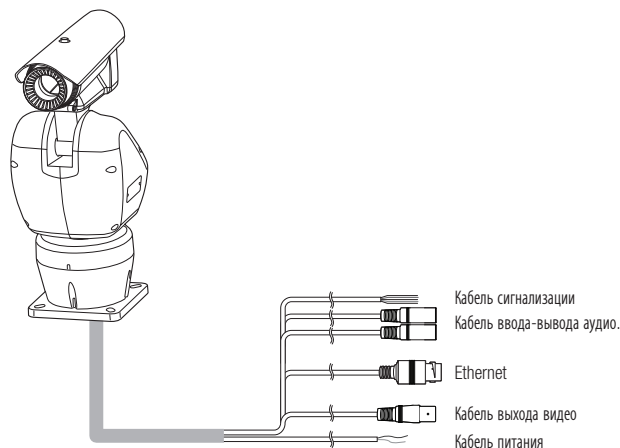
- Производитель : SanDisk, Transcend
- Линейка изделий: С длительным сроком службы

Для данной видеокамеры рекомендуется использовать карты памяти емкостью от 16 до 256 Гбайт (типа MLC).

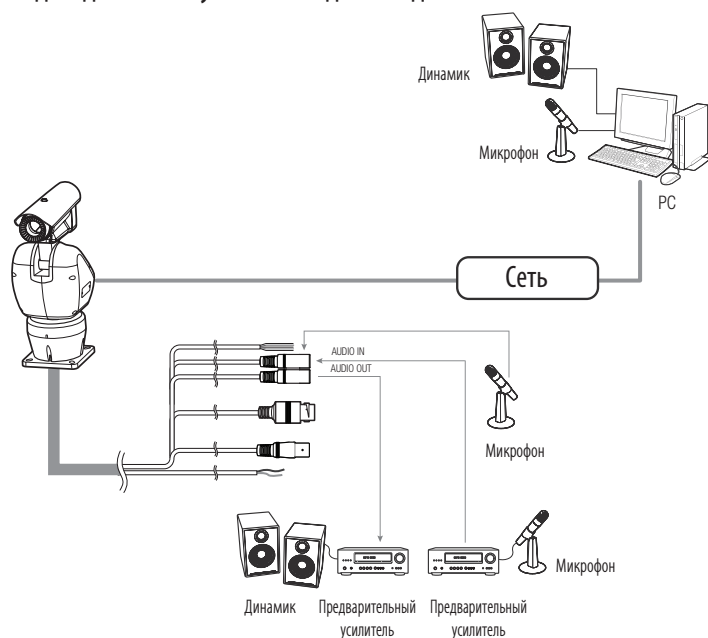
На характеристики воспроизведения может влиять быстроедействие карты памяти.



ПОДКЛЮЧЕНИЕ К ДРУГОМУ УСТРОЙСТВУ



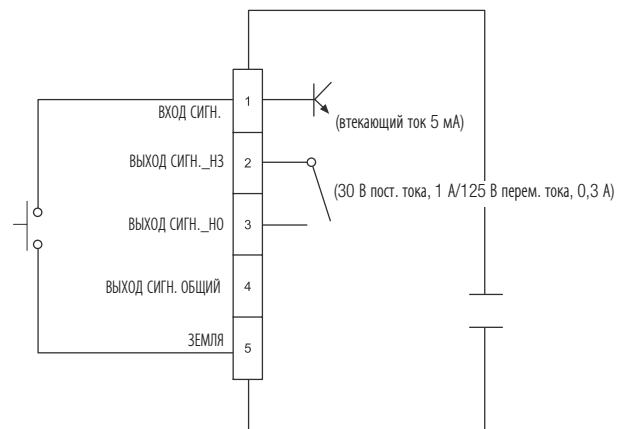
Подсоединение звукового ввода/вывода



1. Соедините порт AUDIO IN камеры напрямую с микрофоном или же с портом LINE OUT усилителя, к которому подключен микрофон.
2. Соедините порт AUDIO OUT камеры и порт LINE IN динамика.
3. Проверьте характеристики для аудиовхода.

- **Аудиокодек** : G.711 PCM, μ -law 64 кБ/с 8 кГц
- **Дуплексное аудио**
- **Звуковой вход** : Используется для входного моносигнала (макс. 2,4 В пикового напряжения)
- **Звуковой выход** : Используется для выходного моносигнала (макс. 2,4 В пикового напряжения)
- **Сопротивление выходного канала Line out** : 600 Ом

Монтажная схема сигнальных кабелей ввода-вывода тревог



Подключение внешних кабелей

Подключите внешние кабели, согласно таблице ниже.

- ! ■ Подключите по одному входные/выходные кабели сигнализации к каждой клемме.

Надпись на бирке	ЦВЕТ	Описание	Примечания
ВХОД СИГН.	Черный	Контакт для подключения внешнего входного тревожного сигнала	
ЗЕМЛЯ	Коричневый	Общий контакт (ЗЕМЛЯ) для подключения внешнего входного тревожного сигнала	
ВЫХОД СИГН. НО	Красный	Контакт (НО) для подключения релейного выходного сигнала	
ВЫХОД СИГН. ОБЩИЙ	Желтый	Контакт (ЗЕМЛЯ) для подключения релейного выходного сигнала	
ВЫХОД СИГН. НЗ	Оранжевый	Контакт (НЗ) для подключения релейного выходного сигнала	

Подключение к сети Ethernet

Подключите кабель Ethernet к локальной сети или к Интернету.

Источник питания

Подключение линии адаптера питания к входному контакту питания камеры.

Пункт	ЦВЕТ
Основное питание	КОРИЧНЕВЫЙ
	СИНИЙ

- ! ■ Перед началом подключения питания убедитесь, что подключается источник питания переменного (неполярного) тока 24 В.

Спецификация сетевого кабеля

Пункт	Содержание	Примечание
Разъем	RJ45	
Ethernet	10/100Base-T	10/100 Мбит/с
Кабель	UTP категории 5е	
Макс. расстояние	100 м	

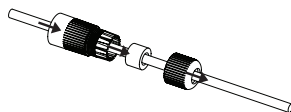
Спецификация кабеля питания

В случае входа : перем. тока 24 В:

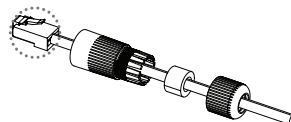
Тип проводов (AWG)	#16	#14
Длина кабеля (макс.)	15 м	24 м

Подключение влагостойкого кабеля RJ45 к кабелю локальной сети

1. Вставьте его в направлении, показанном стрелкой.

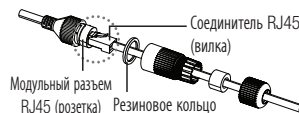


2. Подключите соединитель локальной сети (вилка) к кабелю.



3. Подключите модульный разъем (розетка) к соединителю RJ45 (вилка).

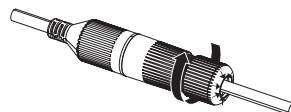
! ■ Храните каждую из частей отдельно.



4. Соедините, повернув модульный разъем RJ45 (розетка) и защитную крышку RJ45 по часовой стрелке (в направлении, указанном стрелкой).



5. Соедините, повернув защитную крышку RJ45 и заднюю крышку по часовой стрелке (в направлении, указанном стрелкой). Когда задняя крышка встанет на место, водонепроницаемая прокладка кабеля плотно прижмется к кабелю, обеспечив его влагозащиту.

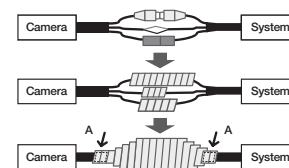


! ■ Необходимо полностью собрать узел, повернув заднюю крышку до конца винтовой резьбы соединителя RJ45.

Наружный монтаж

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

1. Подсоедините силовой кабель, кабели ввода/вывода, AUDIO-соединителя и кабели локальной сети передачи данных.
2. Оберните черный кабельный кожух (Зона A) и зону присоединения кабеля водонепроницаемой лентой (бутылкаучук) так, чтобы лента бутылкаучука перекрывалась больше чем на половину.



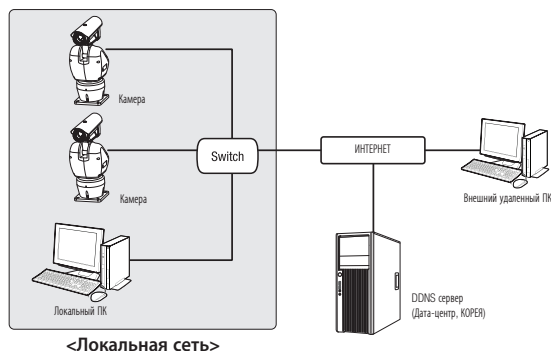
- ! ■ Если не обеспечена надлежащая водонепроницаемость кабельного кожуха, это может стать причиной течи. Удостоверьтесь, что кабель обмотан толстым слоем ленты.
- Водонепроницаемая лента сделана из бутылкаучука, который может растягиваться по длине более чем в два раза.
- Не нужно выполнять гидроизоляцию резиновой лентой, так как кабель локальной сети водонепроницаем.

Можно выставить сетевые настройки согласно сетевой конфигурации.

ПОДКЛЮЧЕНИЕ КАМЕРЫ НАПРЯМУЮ К ЛОКАЛЬНОЙ СЕТИ

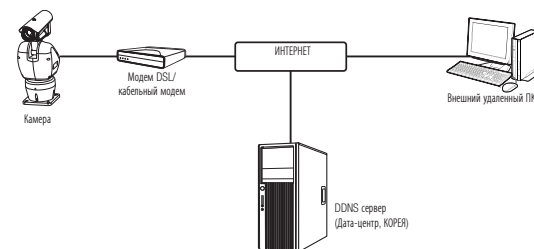
Подключение к камере через локальный ПК в локальной сети

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 преадресация портов или установлен файрвол. 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

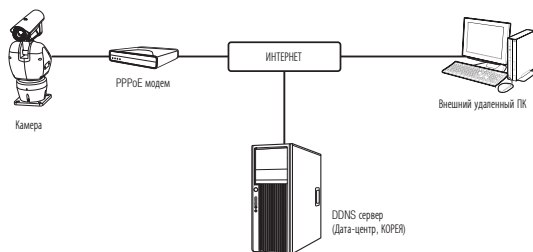


1. Подсоедините напрямую ПК пользователя с сетевой камерой.
2. Запустите Device Manager и измените IP-адрес камеры, чтобы можно было для подключения к Интернету использовать веб-браузер вашего компьютера.
3. Установите подключение к интерактивной программе просмотра в веб-браузере.
4. Перейдите на страницу [Setup].
5. Перейдите на страницу [Network] - [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



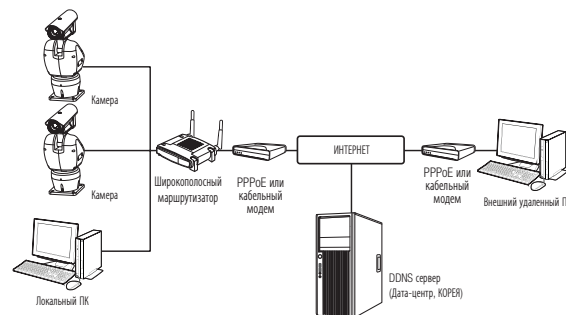
1. Подсоедините напрямую ПК пользователя с сетевой камерой.
2. Запустите Device Manager и измените IP-адрес камеры, чтобы можно было для подключения к Интернету использовать веб-браузер вашего компьютера.
3. Установите подключение к интерактивной программе просмотра в веб-браузере.
4. Перейдите на страницу [Setup].
5. Перейдите на страницу [Network] - [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 нижеприведенной 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)



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

АВТОМАТИЧЕСКИЙ ПОИСК КАМЕРЫ

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

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

НАСТРОЙКА IP-АДРЕСА

Чтобы изменить сетевые настройки камеры, в поле **<Status (Состояние)>** должен отображаться значок **<Login OK (Вход 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	192.168.1.101
	Subnet Mask	255.255.255.0	255.255.255.0
	Gateway	192.168.1.1	192.168.1.1
Настройки, связанные с портами	Порт HTTP	8080	8081
	Порт VNP	4520	4521
	Порт RTSP	554	555



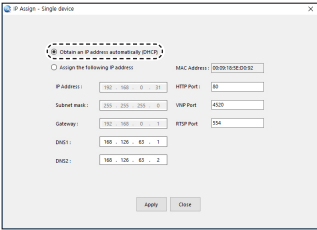
- Если для параметра **<HTTP Port>** выбрано значение выше 80, необходимо указать номер **<Порт>** в адресной строке веб-обозревателя, прежде чем получить доступ к камере.
пр) http://IP-адрес : Порт HTTP
http://192.168.1.100:8080

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

Настройка динамического IP-адреса

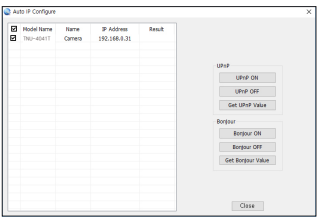
Получите IP-адрес от DHCP

- 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

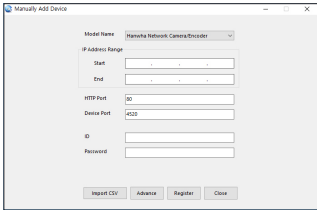
1. Выберите из списка камеру, для которой необходимо автоматически настроить параметры IP.
2. На главной странице Device Manager нажмите < + >.
 - Появится меню настроек оборудования.
3. Выберите в меню <Auto IP Configure (Автоматическая настройка IP)>.
4. Нажмите кнопку [Close (Закрыть)].



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.

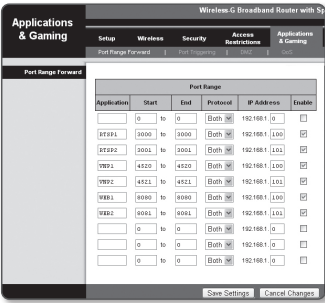


НАСТРОЙКА ПЕРЕАДРЕСАЦИИ ДИАПАЗОНА ПОРТОВ (РАСПРЕДЕЛЕНИЕ ПОРТОВ)

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.

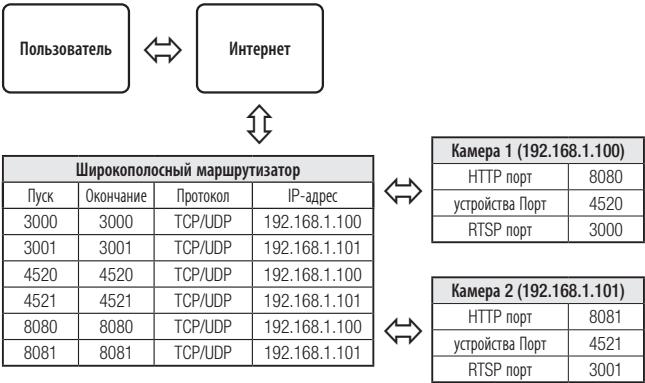


- Настройка переадресации портов является примером настройки IP-маршрутизатора CISCO.
- Параметры могут различаться в зависимости от модели Широкополосный маршрутизатор. Для получения дополнительных сведений см. руководство пользователя соответствующего маршрутизатора.

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]**.

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.



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 <https://ddns.hanwha-security.com>. Сначала зарегистрируйте камеру, а затем задайте <Network> - <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.

-
- The screenshot shows a dark-themed window titled "Administrator password change". It contains two input fields labeled "New password" and "Confirm new password", both showing masked characters. Below the inputs are four bullet points detailing password requirements: minimum length of 8 letters, inclusion of upper/lower case alphabets, numbers, and special characters; a requirement for at least 10 letters if all character types are used; prohibition of user names or their substrings; and a requirement for at least one occurrence of each character class [!@#%&*~\|_+{}(){}^<>=,.-]. Examples of valid and invalid passwords are provided at the bottom.
- 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 include 4 or more characters consecutive together. (example: 1234, abc)
- Don't use 0 or more characters repeated. (examples: IIII, IIIII, aaas)

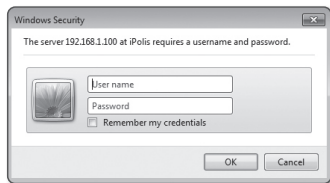


- Для нового пароля от 8 до 9 символов, необходимо использовать не менее 3 символов из числа следующих: строчные/прописные буквы, цифры и специальные символы. Для пароля от 10 до 15 символов необходимо использовать не менее 2 типов указанных символов.
 - Допускаются следующие специальные символы: ~!@#\$%^&*()-+=[]{}|?/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

Имеющийся Web viewer с подключаемым программным модулем и новый веб-просмотр без встраиваются программного модуля встраиваются совместно. Это позволяет использовать Web viewer в среде более новых браузеров, таких как Chrome, EDGE и Firefox (только 64-битная Windows), которые не поддерживают подключаемые программные модули. Для браузеров, допускающих установку подключаемого программного модуля, таких как IE и Safari, рекомендуется установка этого модуля. В зависимости от программной среды браузера могут наблюдаться следующие отличия.

- **Браузеры Chrome, Firefox(который поддерживается только Windows 64bit), EDGE** : Хотя они не поддерживают подключаемые программные модули, можно использовать Web viewer, так как установлен web viewer, не использующий подключаемый программный модуль.
- ! Поскольку бесплатный подключаемый программный модуль веб-просмотра имеет более низкие характеристики, чем подключаемый программный модуль веб-просмотра, имеется ограничение на наблюдение под профилями с высоким качеством и воспроизведение сохраненных видеоданных.
Для наблюдения под профилями с высоким качеством и воспроизведения сохраненных видео используйте либо подключаемый программный модуль веб-просмотра, либо программу SmartViewer.
 - Условия создания веб-среды просмотра, работающего без подключаемого модуля: Выбранный профиль по своим характеристикам превышает MJPEG Full HD 10 кадр/с H.264 (Chrome: поддерживается полноэкранное разрешение / Edge, Firefox, Safari: FullHD 30 кадр/с или выше) H.265 FullHD 10 кадр/с 2 Мбит/с или выше
 - Условия воспроизведения без подключаемого модуля: MJPEG/H.264 полноэкранное разрешение, H.265 HD или ниже
- Функция бесплатного подключаемого программного модуля оптимизирована для браузера Chrome.
- Поддерживается адаптивная потоковая передача
 - Это функция, которая обеспечивает автоматическое понижение свойств профиля, если задержка больше 5 секунд. Она служит для предотвращения таких явлений, как повышенное время ожидания и отсутствие отклика от браузера при воспроизведении видео в системе с аппаратными характеристиками ниже рекомендуемых.
Профиль видео понижается в следующем порядке: 1920X1080 (20 кадр/с) -> 1280X720 (20 кадр/с) -> 640X480 (20 кадр/с).
- **Браузер IE, 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

Для того чтобы получить доступ к подключаемому программному модулю веб-просмотра и воспроизводить прямое (H.264/H.265) или записанное видео, будет выведено сообщение с предложением установить модуль. Для надлежащего применения функции необходимо установить подключаемый программный модуль веб-просмотра.

1. При самом первом обращении к странице монитора отображается страница установки. Кликните на **[Download plugin]**, чтобы начать установку.
- ! ■ Если статус загрузки установочного файла плагина приостанавливается на 99% в браузере Internet Explorer, попробуйте еще раз после выбора "Отключить 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_activeplugin_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 проблема не устраняется, зарегистрируйте IP-адрес или домен своей камеры в "Инструменты → Опции Интернета → Безопасность → Доверенные сайты".

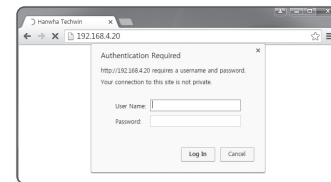
ИСПОЛЬЗОВАНИЕ ПОДКЛЮЧАЕМОГО ПРОГРАММНОГО МОДУЛЯ ВЕБ-ПРОСМОТРА

Если доступ к камере производится из веб-браузера Google Chrome, Mozilla Firefox или MS Edge, то, хотя установить программный модуль отдельно невозможно, можно просматривать видео и управлять им и без установки модулей.

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

Настройка камеры

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.



ПОИСК И УСТРАНЕНИЕ НЕПОЛАДОК

ПРОБЛЕМА	РЕШЕНИЕ
Если пользователь Windows 10 получает доступ к Web viewer через Chrome или Firefox, громкость микрофона периодически изменяется.	Это происходит, когда для микрофона установлен драйвер Realtek. Установите в качестве драйвера микрофона драйвер Windows по умолчанию для звукового устройства с поддержкой High Definition Audio, либо драйвер стороннего поставщика.
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.
Невозможно управление системой.	- Проверьте питание. Убедитесь, что питание включено. - Проверьте, подключен ли кабель связи.
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.
Не получается подключиться к системе, используя многооконный режим Internet Explorer 7.0.	При подключении нового окна или вкладки может произойти ошибка, так как данные cookie используются совместно. Не используйте новое окно или вкладку, выберете "Файл → Новая сессия".
Подключенная к сети камера не обнаружена в программе Device Manager.	Отключите фаервол на своем ПК и заново запустите поиск камеры.
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 картинок.	Если задан метод передачи на группу адресов, убедитесь, что в локальной сети, к которой подключена камера, есть роутер, поддерживающий технологию multicast.

ПРОБЛЕМА	РЕШЕНИЕ
Голос не записывается, даже если заданы настройки входа аудио.	Необходимо установить флажок <Аудио вход> в меню <Basic> - <Профиль видео>.
<MD / VA> в меню <Event> 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 <MD / VA> необходимо задать значение <Активировать>. С. Проверьте, выбран ли в меню <Настройка событий> параметр <Настройка событий>.
Сигнал тревоги не выводится на соответствующий порт даже при регистрации события анализа интеллектуального видео.	Проверьте настройки для выходных портов сигналов.
Не удается записать данные на карту памяти Micro SD.	Проверьте, исправна ли карта памяти.
Карта памяти Micro SD установлена, однако камера работает неверно.	- Проверьте, в правильном ли направлении вставлена карта памяти. Возможность использования карт памяти, отформатированных на других устройствах, не гарантируется. - Снова отформатируйте карту памяти в меню <Setup> → <Event> → <Запись>.
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. Ех) 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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GPL SW

Component Name	License	URL
Base Kernel	GPL 3.0	
Busybox	GPL 2.0	http://www.busybox.net/downloads/snapshots
iproute2-3.1.0	GPL 2.0	
alsa-utils-1.0.24.2	GPL 2.0	
alsa-lib-1.0.24.1	GPL 2.0	
iptables-1.4.12.2	GPL 2.0	http://ftp.netfilter.org/pub/iptables
ethtool-3.2	GPL 2.0	
mt-d-1.4.1	GPL 2.0	ftp://ftp.infradead.org/pub/mt-d-utils
mi-diag-2.11	GPL 2.0	
rp-pppoe-3.10	GPL 2.0	http://www.roaringpenguin.com/pppoe/
wpa_supplicant-0.7.3	GPL 2.0	
bash-4.2	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/
	(The Manual and test suite are GPL)	

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Version 2, June 1991

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- Version 1.1

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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 EC 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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