

WISENET

СЕТЕВАЯ КАМЕРА

Руководство пользователя

QNB-6002/QNB-8002



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 вилки поляризованного или заземляющего типа. Вилка поляризованного типа имеет два ножевых контакта, один из которых шире другого. Вилка заземляющего типа имеет два контакта и третий заземляющий штырь. Широкое лезвие третьего заземляющего штыря предусмотрено для вашей безопасности.
Если вилка поставляемого вместе с аппаратом шнура питания не подходит для вашей розетки, попросите опытного электрика заменить старую розетку.
10. Не наступайте на шнур питания и не допускайте его защемления, особенно вблизи от штепсельной вилки, в месте подключения к розетке и там, где шнур выходит из изделия.
11. Пользуйтесь только теми приспособлениями/ принадлежностями, которые рекомендованы изготовителем.
12. Используйте устройство только с тележкой, подставкой, штативом, кронштейном и столом, указанными производителем или приобретенными вместе с устройством. Во избежание травм вследствие опрокидывания тележки с устройством соблюдайте осторожность при ее передвижении.
13. Отсоединяйте устройство от сети во время грозы или если оно не используется в течение длительного времени.
14. Все работы, связанные с техническим обслуживанием изделия, должны выполняться квалифицированными специалистами по техническому обслуживанию. Обслуживание изделия требуется выполнять, когда изделие получило какое-либо повреждение, например, был поврежден его шнур питания или вилка шнура питания, внутрь изделия попала жидкость или посторонние предметы, изделие подверглось воздействию дождя или влаги, изделие не работает должным образом, а также после падения изделия.
15. Это изделие предназначено для поставки с указанным источником питания с маркировкой «Класс 2» или «LPS» и номинальной мощностью от 12 В пост. тока 0,5 А или PoE 0,13 А. (QNB-6002)
16. Это изделие предназначено для поставки с указанным источником питания с маркировкой «Класс 2» или «LPS» и номинальной мощностью от 12 В пост. тока 0,5 А или PoE 0,13 А. (QNB-8002)
17. Это изделие предназначено для использования с изолированным источником питания.
18. Если при установке изделия прилагать чрезмерные усилия, возможно повреждение с нарушением работы камеры. Если с силой устанавливать устройство, пользуясь неподходящими инструментами, возможно повреждение устройства.
19. 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.
20. 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.



21. 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.
22. Установка или эксплуатация устройства в воде может привести к значительному повреждению изделия.
23. Это устройство было проверено с помощью кабеля STP. Для эффективной защиты этого устройства и другого вашего имущества от скачков напряжения, ударов молнии и разрывов связи рекомендуется использовать соответствующее заземление через выход GND и кабель STP.

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.

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

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 VIDEO 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.

Качество приобретаемых отдельно сторонних продуктов (например, объективов или принадлежностей) не гарантируется.

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
 - Рекомендуемый браузер: Chrome
 - Поддерживаемые браузеры: Chrome, Safari, Firefox, MS Edge(chromium based)
 - Поддерживаемые ОС : Windows, Mac, Linux, Android, iOS, Chrome
 - Среда проверки
 - Windows 10: Google Chrome версии 80 или новее, Firefox версии 72 или новее, MS Edge версии 83 или новее
 - Mac 10.13/14: Safari версии 11.0.1 или новее
- ※ Производительность просмотра видео в Web Viewer зависит от производительности процессора и графической платы компьютера пользователя.

РЕКОМЕНДУЕМЫЕ ХАРАКТЕРИСТИКИ КАРТ ПАМЯТИ МИКРО SD/SDHC/SDXC

- Рекомендуемая емкость : от 16 до 128 Гбайт (необходим тип MLC)
- Рекомендуемые производители: SanDisk, Transcend
- Тип карты: износостойкая
- Совместимость может отличаться в зависимости от производителя и типа карты.

РЕКОМЕНДУЕМЫЕ ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ NAS

- Рекомендуемый объем : Рекомендуемый объем – не менее 200 Гб.
- Для этой модели камеры рекомендуется использование NAS со следующими техническими характеристиками производителя.
Рекомендуемые продукты: QNAP NAS, Synology NAS

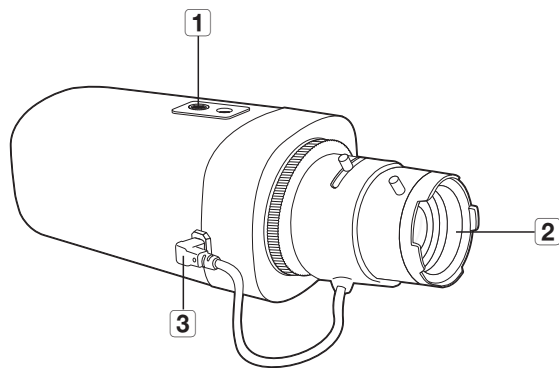
КОМПЛЕКТ ПОСТАВКИ

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

Внешний вид	Название элемента	Количество	Описание
	Камера	1	
	Краткое Руководство (необязательно)	1	
	Кабель для тестирования монитора	1	Используется для подключения камеры к портативному устройству отображения
	6-позиционный клеммный блок	1	Подключение к клеммам ввода/вывода сигналов тревоги
	Лист байонет объектива	2	Устанавливается между камерой и объективом для регулировки фокуса.
Опции (не входят в комплект)			
	Объектив C/CS		Дополнительные объективы для камеры

ОБЩИЙ ОБЗОР

Передняя сторона

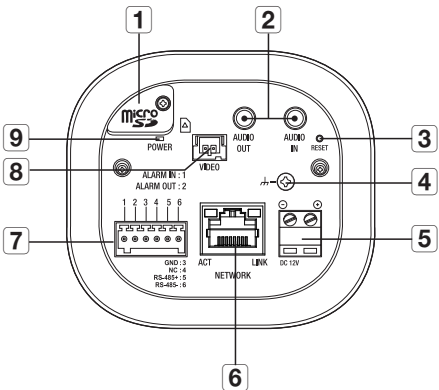


Элемент	Описание
1 Резбовое отверстие для крепления кронштейна	Используется для крепления камеры на монтажный кронштейн. ■ Размер винта : Это — спецификация на винты, которые используются для прикрепления камеры к опоре. 1/4" - 20 UNC Длина: 4,5 ± 0,2 мм (стандарт ISO) или 0,197" (стандарт ASA)
2 Объектив с автоматической ирисовой диафрагмой (дополнительно)	Устанавливается на адаптер для объектива.
3 Разъем объектива с автоматической ирисовой диафрагмой	Необходим для подачи питания и вывода сигнала с целью управления ирисовой диафрагмой.

■ Кронштейн для крепления в комплект не входит.
Для получения дополнительной информации по использованию кронштейна для крепления см. документацию к устройству.



Задняя сторона



Элемент	Описание	
1 Отсек для карты памяти Микро SD	Отсек для карты памяти Микро SD.	
2 Разъем аудиовыхода	AUDIO OUT	Используется для подключения к динамикам.
	AUDIO IN	Используется для подключения к микрофону.
3 Разъем аудиовыхода	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.	
4 Порт заземления для защиты от молнии	Предназначен для безопасного отведения тока молнии для защиты камеры.	
5 Порт питания	Используется для подключения кабеля питания.	
6 Порт Сеть	Подсоединение кабеля PoE или Ethernet для установки сетевого подключения.	

Элемент		Описание	
7	Порт ввода-вывода сигналов тревоги	ALARM IN	Используется для подключения сенсора входного сигнала тревоги или наружного сенсора день/ночь.
		ALARM OUT	Используется для передачи выходных сигналы тревоги.
		GND	Используется для грунтового заземления.
		RS-485+	Линия передачи данных RS-485
		RS-485-	Линия передачи данных RS-485
8	Видеовыход	Порт вывода для тестирования выходного видеосигнала наблюдения. Подсоедините мобильный дисплей к порту с помощью кабеля для тестирования видеонаблюдения и проверьте видео.	
9	Карта памяти индикаторы питания	POWER	ВКЛ : питание включено. ВЫКЛ : питание выключено.



■ Порт RS-485 поддерживает прямое подключение с драйвером поворота/наклона, внешние подключения контроллера RS-485 не поддерживаются.

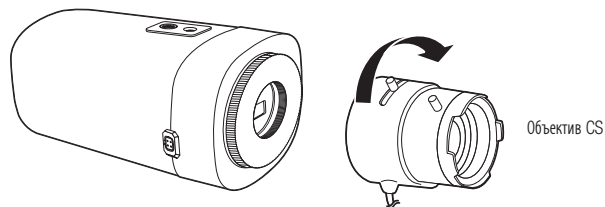
УСТАНОВКА ОБЪЕКТИВА

Сначала отсоедините кабель питания.

- Переходные кольца C/CS для объектива и C-крепление переходника в комплект поставки продукта не входят. Для этих целей необходимо использовать только мегаобъектив.

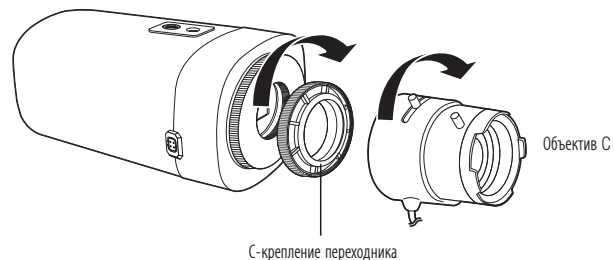
Установка объектива с CS-креплением

Поверните объектив с креплением CS по часовой стрелке, чтобы его прикрепить.



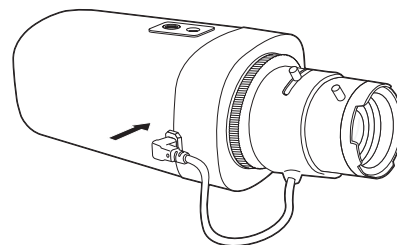
Установка объектива с C-креплением

Поверните C-крепление переходника и переходное C-кольцо объектива по часовой стрелке.



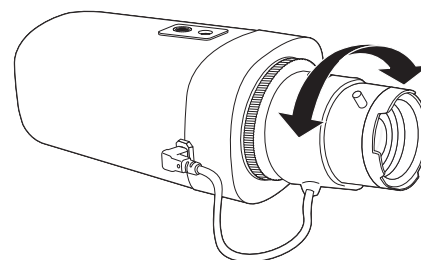
Подсоединение разъема объектива с автоматической ирисовой диафрагмой

Вставьте коннектор диафрагмы объектива в разъем камеры.



Фокусировка

Выберите цель на пленке, поверните ручку зума объектива для настройки увеличения, а затем фокус объектива так, чтобы цель четко отображалась.



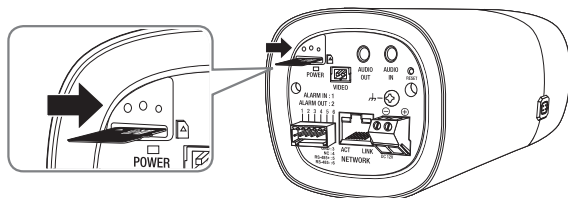
- Если не удастся отрегулировать фокус, установите между камерой и объективом один или два закрепляемых байонета объектива (seat lens mount), соберите их, а затем отрегулируйте фокус еще раз.

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.

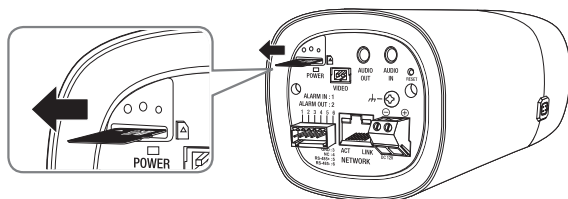
Установка карты памяти Микро SD

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



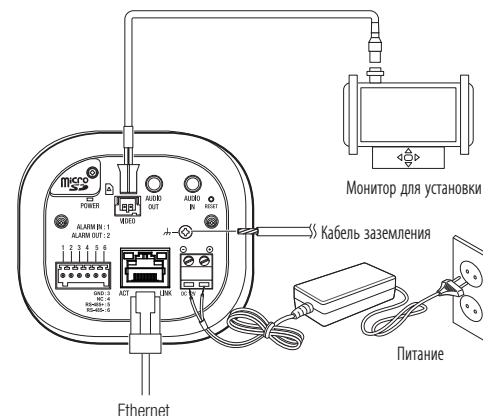
Извлечение карты памяти Микро SD

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



- ❗ 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.

ПОДКЛЮЧЕНИЕ К ДРУГОМУ УСТРОЙСТВУ



- ❗ Выходной разъем VIDEO устройства предназначен для облегчения монтажа и не рекомендуется использовать его для целей мониторинга.

Подключение к сети Ethernet

Подключите кабель Ethernet к локальной сети или к Интернету.

Источник питания

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

- ❗ Также для подачи питания к видеокамере используется маршрутизатор с поддержкой PoE.
- Применяемая технология PoE должна быть совместима с протоколами IEEE802.3af.
- Подключая кабель питания, будьте очень внимательны, чтобы не перепутать полярность.
- Если необходимо подключить внешнее устройство, перед началом работы его необходимо выключить.

Спецификация на силовой кабель для каждой модели

В случае входа : 12 В постоянного тока:

Тип проводов (AWG)	#22	#20
Длина кабеля (макс.)	18m	28m

Спецификация сетевого кабеля

Пункт	Содержание	Примечание
Разъем	RJ45	
Ethernet	10/100Base-T	10/100 Мбит/с
Кабель	категории 5е	
Макс. расстояние	100 м	
Поддержка питания по Ethernet	IEEE 802.3af	

Заземление устройства

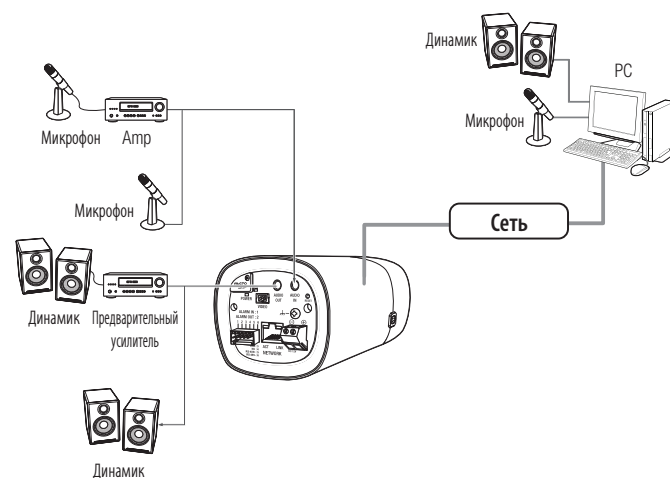
С помощью отвертки подсоедините заземляющий провод к клемме заземления, расположенной над гнездом питания.

- Заземление обеспечивает защиту устройства от перенапряжения и молний.
- Перед заземлением обязательно отключите питание устройства.

Рекомендуемый кабель заземления

- Длина: менее 3 м
- Сортамент: 18 AWG или больше
Пр) UL1007 AWG 18/16, UL1015 AWG18/16/14/12, UL2468 AWG18/16/14

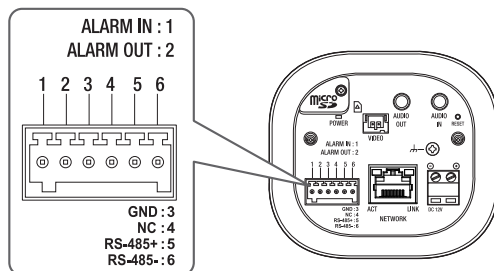
Подсоединение звукового ввода/вывода



1. Подключите микрофон к порту AUDIO IN камеры или соедините порты AUDIO IN и LINE OUT усилителя, к которому подсоединен микрофон.
 2. Подключите динамик к порту AUDIO OUT камеры или соедините порты AUDIO OUT и LINE OUT усилителя, к которому подсоединен динамик.
 3. Проверьте характеристики для аудиовхода.
- **Аудиокодек**
 - Аудио вход : G.711 PCM (скорость передачи: 64кбит/с / частота дискретизации: 8кГц), G.726 АДИКДМ (скорость передачи: 16кбит/с , 24кбит/с , 32кбит/с , 40кбит/с / частота дискретизации: 8кГц)
 - Аудио выход : G.711 PCM (скорость передачи: 64кбит/с / частота дискретизации: 8кГц)
 - **Дуплексное аудио**
 - **Звуковой вход** : Линейный вход (монофонический штекер 3,5 мм), поддерживаемое напряжение: 2,5 В постоянного тока (4 мА), входное сопротивление: 2 кОм
 - **Звуковой выход** : Линейный выход (монофонический штекер 3,5 мм), максимальный сигнал: 1 В (действующее значение)
 - **Сопротивление выходного канала Line out** : 600 Ом

Подключение к блоку портов ввода-вывода

Подключите сигнальный кабель ввода-вывода тревог к соответствующему порту блока, расположенного сзади.



- ALARM IN : Используется для подключения сенсора входного сигнала тревоги или наружного сенсора день/ночь.
- ALARM OUT : Используется для передачи выходных сигналы тревоги.
- GND : Используется для грунтового заземления.
- RS-485+ : Порт связи для ресивера RS-485 (+).
- RS-485- : Порт связи для ресивера RS-485 (-).

Подключение внешнего устройства RS-485

Подключите камеру к внешнему устройству с помощью портов [RS-485 +, -].

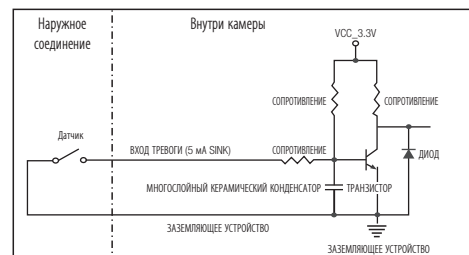
Можно управлять операциями панорамирования/наклона через соединение по RS-485.

- Для связи через RS-485 рекомендуется подключить разъем GND. При обнаружении ошибки связи подключите контакт GND к соответствующему разъему GND между камерой и внешним устройством.

Подключение к внешнему датчику

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

Монтажная схема входа тревоги

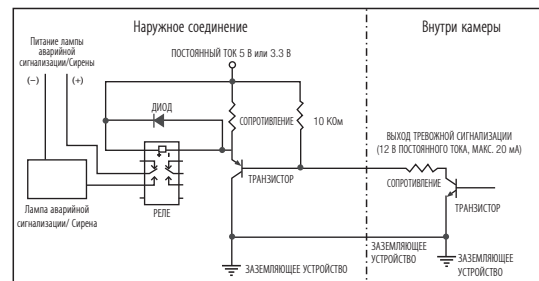


Подключение выхода тревоги

Если устройства (например, проблесковый световой маяк или сирена), превышающие допустимый уровень напряжение и тока, указанный в технических спецификациях, подсоединяются при помощи метода открытого коллектора, это может привести к сбою.

При подключении устройств, напряжение и текущие технические характеристики которых выше указанных в спецификации, смотрите схему подключения выхода тревоги, представленную ниже.

Монтажная диаграмма выхода тревоги

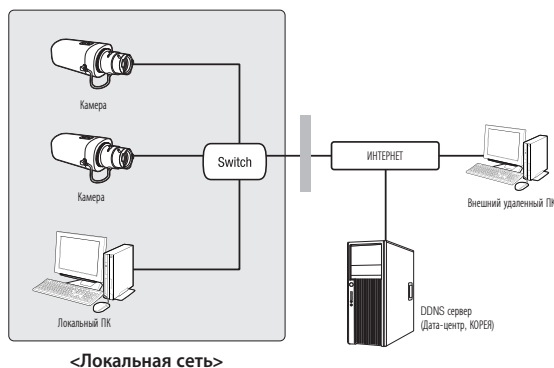


Можно выставить сетевые настройки согласно сетевой конфигурации.

ПОДКЛЮЧЕНИЕ КАМЕРЫ НАПРЯМУЮ К ЛОКАЛЬНОЙ СЕТИ

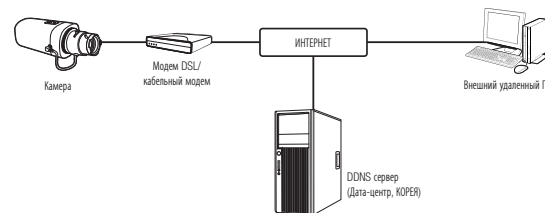
Подключение к камере через локальный ПК в локальной сети

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



- Удаленный ПК во внешней сети или в Интернете не может подключиться к камере, установленной в интранет, если не задана правильная переадресация портов или установлен фаервол. В этом случае обратитесь к системному администратору для устранения проблемы.
- Согласно заводским настройкам по умолчанию, IP-адрес назначается сервером DHCP автоматически. Если сервер DHCP отсутствует, будет задан следующий IP-адрес: 192.168.1.100. Чтобы изменить IP-адрес, нужно использовать Device Manager. Для получения дополнительной информации об использовании Device Manager см. раздел «Использование Device Manager». (Стр. 14)

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

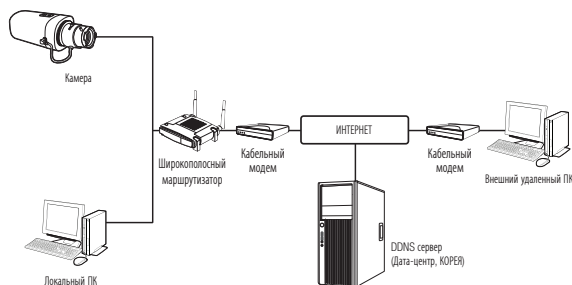


1. Подсоедините напрямую ПК пользователя с сетевой камерой.
2. Запустите Device Manager и измените IP-адрес камеры, чтобы можно было для подключения к Интернету использовать веб-браузер вашего компьютера.
3. Установите подключение к интерактивной программе просмотра в веб-браузере.
4. Перейдите на страницу [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 К ШИРОКОПОЛОСНЫЙ МАРШРУТИЗАТОР ЧЕРЕЗ 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. 16)

ИСПОЛЬЗОВАНИЕ DEVICE MANAGER



- Программу Device Manager можно загрузить с веб-сайта Hanwha Techwin через меню <Technical Guides> – <Online Tool>. (<http://www.hanwha-security.com>)
- Дополнительные инструкции по Device Manager можно найти в меню <Справка> главной страницы.

АВТОМАТИЧЕСКИЙ ПОИСК КАМЕРЫ

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

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

УСТАНОВКА ПАРОЛЯ

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

НАСТРОЙКА IP-АДРЕСА

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

Настройка статического IP

Вручную введите IP-адрес и информацию о порте.

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

Окно "IP Assign - Single device" содержит следующие поля:

- IP Address: 192.168.0.1
- Subnet mask: 255.255.255.0
- Gateway: 192.168.0.1
- DNS1: 192.168.0.1
- DNS2: 192.168.0.2
- HTTP Port: 80
- RTSP Port: 554

Вверху окна есть кнопки: "Obtain an IP address automatically (DHCP)", "Assign the following IP address", "Cancel", "OK". Внизу окна есть кнопки: "Apply", "Close".

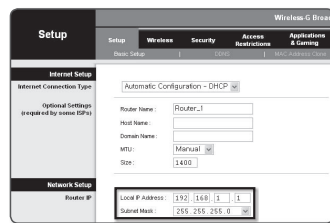
В случае отсутствия Широкополосный маршрутизатор

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

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

В случае использования Широкополосный маршрутизатор

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



- Параметры могут различаться в зависимости от модели Широкополосный маршрутизатор. Для получения дополнительных сведений см. руководство пользователя соответствующего маршрутизатора.
- Дополнительную информацию о переназначении портов на широкополосном маршрутизаторе см. в разделе "Настройка Переназначения Диапазона Портов (Распределение Портов)". (Стр. 16)

Если к Широкополосный маршрутизатор подключено несколько камер

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

пр)

Категория		Камера №1	Камера №2
Настройки, связанные с IP	IP Address	192.168.1.100	192.168.1.101
	Subnet Mask	255.255.255.0	255.255.255.0
	Gateway	192.168.1.1	192.168.1.1
Настройки, связанные с портами	Порт HTTP	8080	8081
	Порт RTSP	554	555

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

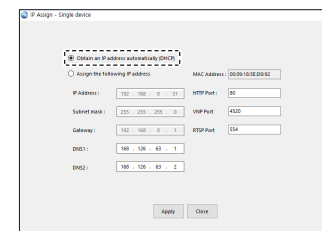
5. Нажмите кнопку [Применить].
6. Если появится сообщение об успешной настройке, нажмите [OK].

Настройка динамического IP-адреса

Получите IP-адрес от DHCP

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

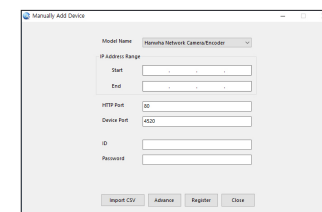
1. Выберите из списка камеру, у которой нужно изменить параметры IP.
2. Нажмите кнопку <IP Assign (Назначить IP)> на главной странице Device Manager.
3. Выберите <Obtain an IP address automatically (DHCP) (Получить IP-адрес автоматически (DHCP))>.
4. Нажмите кнопку [Apply (Применить)].
5. Если появится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



РЕГИСТРАЦИЯ КАМЕРЫ ВРУЧНУЮ

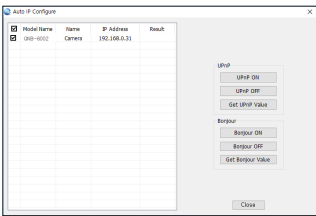
Если не удастся найти камеру с помощью функции поиска (если камера подключена к внешней сети), ее можно зарегистрировать удаленно, введя ее параметры IP вручную.

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



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 (Заккрыть)].

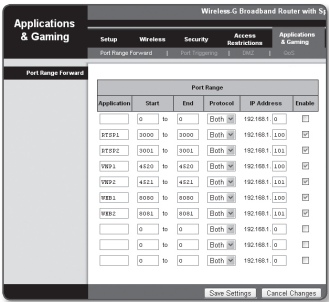


НАСТРОЙКА ПЕРЕАДРЕСАЦИИ ДИАПАЗОНА ПОРТОВ (РАСПРЕДЕЛЕНИЕ ПОРТОВ)

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

Переадресации диапазона портов вручную

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

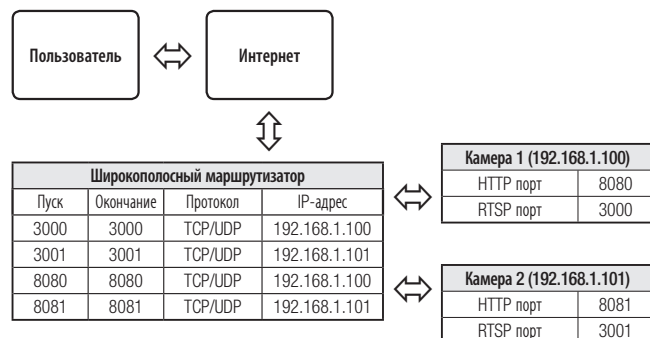


- Настройка переадресации портов является примером настройки IP-маршрутизатора CISCO.
- Параметры могут различаться в зависимости от модели Широкополосный маршрутизатор. Для получения дополнительных сведений см. руководство пользователя соответствующего маршрутизатора.

Настройка переадресации диапазона портов для нескольких сетевых камер

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

Когда камера 1 и камера 2 подключены к маршрутизатору:



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

ПОДКЛЮЧЕНИЕ К КАМЕРЕ С ЛОКАЛЬНОГО КОМПЬЮТЕРА ОБЩЕГО ДОСТУПА

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

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

ПОДКЛЮЧЕНИЕ К КАМЕРЕ С УДАЛЕННОГО КОМПЬЮТЕРА ЧЕРЕЗ ИНТЕРНЕТ

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

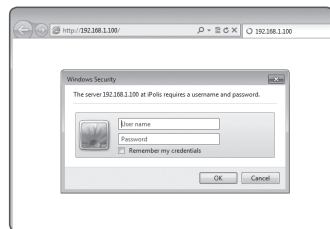
1. Прежде чем получить доступ к камере в сети Широкополосный маршрутизатор, необходимо настроить переадресацию диапазона портов для Широкополосный маршрутизатор.
2. На удаленном компьютере запустите веб-обозреватель и введите DDNS URL-адрес камеры или IP-адрес Широкополосный маршрутизатор в адресную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

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

ПОДКЛЮЧЕНИЕ К КАМЕРЕ

Обычный порядок действий

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



Номер порта HTTP отличен от 80

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

Использование URL-адреса

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

 ■ Сетевое подключение выключено только в среде LAN.

Подключение через UPnP

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

Соединение через службу Bonjour

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

Просмотр DDNS-адреса

Если камера подключена напрямую к кабельному модему DHCP или модему DSL, 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 <Wisenet DDNS> в программе Web Viewer, а также укажите <Код продукта>, который использовался для регистрации DDNS.

УСТАНОВКА ПАРОЛЯ

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



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

Administrator password change

New password

Confirm new password

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

ВХОД

При каждом доступе к камере будет появляться окно входа.

Укажите идентификатор пользователя и пароль для доступа к камере.

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



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



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

Windows Security

The server 192.168.1.100 at iPolis requires a username and password.

User name

Password

☐ Remember my credentials

OK Cancel

НАСТРОЙКА WEB VIEWER

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

ПОИСК И УСТРАНЕНИЕ НЕПОЛАДОК

ПРОБЛЕМА	РЕШЕНИЕ
Если 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.
Нет доступа к камере через веб-браузер.	• Проверьте на правильность сетевые настройки камеры. • Убедитесь в правильности подключения всех сетевых кабелей. • Убедитесь в том, что камера получает динамический IP-адрес при использовании DHCP-технологии. • Если камера подключена к Широкополосный маршрутизатор, убедитесь в том, что переадресация портов настроена правильно.
Происходит разрыв соединения по время мониторинга видео в экране просмотра.	• При любом изменении настроек камеры или сети происходит разрыв соединения с наблюдательными терминалами. • Проверьте все сетевые соединения.
Подключенная к сети камера не обнаружена в программе Device Manager.	• Отключите фаервол на своем ПК и заново запустите поиск камеру.
Картинки перекрываются.	• Убедитесь в том, что две или более камеры не транслируют данные на один и тот же multicast-адрес. Картинки могут перекрываться, если один адрес используется несколькими камерами.
Нет картинки.	• Если задан метод передачи на группу адресов, убедитесь, что в локальной сети, к которой подключена камера, есть роутер, поддерживающий технологию multicast.

ПРОБЛЕМА	РЕШЕНИЕ
Голос не записывается, даже если заданы настройки входа аудио.	• Необходимо установить флажок <Аудио вход> в меню <Basic> - <Профиль видео>.
<Детектор движения> в меню <Аналитика> установлено в <Активировать>, но уведомления по электронной почте не приходят, даже когда произошло событие аналитики.	• Проверьте настройки в следующей последовательности: А. Проверьте настройки параметра <Дата и время>. В. Для параметра <Детектор движения> необходимо задать значение <Активировать>. С. Проверьте, выбран ли в меню <Настройка событий> параметр <Настройка событий>.
Сигнал тревоги не выводится на соответствующий порт даже при регистрации события анализа интеллектуального видео.	• Проверьте настройки для выходных портов сигналов.
Не удается записать данные на карту памяти Micro SD.	• Проверьте, исправна ли карта памяти.
Карта памяти Micro SD установлена, однако камера работает неверно.	• Проверьте, в правильном ли направлении вставлена карта памяти. Возможность использования карт памяти, отформатированных на других устройствах, не гарантируется. • Снова отформатируйте карту памяти в меню <Настройка> → <Событие> → <Накопитель>.
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.

OPEN SOURCE ANNOUNCEMENT

GPL/LGPL software license

The software included in this product contains copyrighted software that is licensed under the GPL/LGPL. You may obtain the complete Corresponding Source code from us for a period of three years after our last shipment of this product by sending email to help.cctv@hanwha.com

If you want to obtain the complete Corresponding Source code in the physical medium such as CD-ROM, the cost of physically performing source distribution might be charged.

GPL SW

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

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

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 2. to develop and manufacture the Embedded Product containing the Binary Code, and, whether with or without payment, provide the End User with the same and make the Binary Code available to the End User on the Embedded Product.
5. The Source Code User and the System Developer shall be obligated to give a notice that the Source Code is used, in such a way as separately specified by T-Engine Forum, when they use the Source Code or the Binary Code, or make the Binary Code available for the End User on the Embedded Product.

Article 5. Distribution of Modified Source Code

1. Any of A- members of T-Engine Forum may become the Distributor of Modification by obtaining the approval of T-Engine Forum through the registration procedure as prescribed by the Forum provided that only the department of the A- member which has taken the registration procedure may distribute the Modified Source Code in such a way as provided for in this Article as long as it holds the Amembership.
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6. Developer with the Patch for Modification. Provided, however, that the Distributor of Modification shall be obligated to confirm that the System Developer is the Source Code User duly licensed under Article 4.1.
7. The Distributor of Modification may perform the Vicarious Execution of Patch Processing for the System Developer.
8. The System Developer shall not distribute the Modified Source Code in further modified form to any third party as a stand-alone software product.
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Article 6. Distribution and Registration of the Ported Source Code

1. The Source Code User and the System Developer may, whether with or without charge, distribute to any third party only the following parts of the Ported

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1. The Hardware-dependent Part and/or Compiler-dependent Part; provided that the Source Code User and the System Developer shall inform T-Engine Forum of, and T-Engine Forum may publish, a method for distributing said Part(s) to third parties.
2. The Header File; provided that the Header File shall be distributed together with the Binary Code of the Ported Source Code.
2. Any member of T-Engine Forum may request T-Engine Forum to register and distribute, as an original source code for T-Kernel, the Ported Source Code on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware.
3. Any member of T-Engine Forum who requests the distribution mentioned in the preceding paragraph shall accede to the following conditions:
 1. The member shall confirm that the object hardware is the T-Engine Hardware or the Similar Hardware to T-Engine Hardware.
 2. The member shall provide T-Engine Forum with a complete set of operational environment for the object hardware and T-Kernel free of charge when requesting the distribution.
 3. The member shall submit test results of the Ported Source Code to T-Engine Forum when requesting the distribution.
4. In the event that T-Engine Forum accepts the request mentioned in Article 6.2, T-Engine Forum shall register and distribute the Ported Source Code as the Source Code for T-Kernel. Provided, however, that the Ported Source Code may be treated in the same way as the Modified Source Code until the time of registration hereunder.
5. The provision set forth in Article 3 shall apply to the Ported Source Code registered in accordance with this Article.

Article 7. Use for Other Purpose

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

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Julian Seward, jseward@bzip.org

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Jean-loup Gailly Mark Adler

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

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