

**WISENET**

# **СЕТЕВАЯ КАМЕРА**

Руководство пользователя

XNZ-6320



# Сетевая Камера

## Руководство пользователя

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❖ Конструкция и характеристики устройства могут быть изменены без предварительного уведомления.

❖ Первоначальный ID администратора - "admin", а пароль следует задать при первом входе в систему.

Для надежной защиты личной информации и предотвращения ущерба от кражи данных меняйте пароль каждые три месяца.

Имейте в виду, что ответственность за безопасность а также за любые проблемы, связанные с ненадлежащим обращением с паролем, несет пользователь.

## ВАЖНЫЕ ПРАВИЛА ТЕХНИКИ БЕЗОПАСНОСТИ

1. Прочтите эти правила.
2. Сохраните эти правила.
3. Принимайте во внимание все предупреждения.
4. Следуйте всем правилам.
5. Не используйте изделие вблизи воды.
6. Очищайте загрязненные места на поверхности изделия мягкой, сухой или влажной тряпкой.  
(Не используйте моющие средства либо косметические продукты, содержащие спирт, растворители, либо ПАВ, либо смазочные материалы, поскольку они могут привести к деформации или повреждению продукта.)
7. Не загромождайте никакие вентиляционные отверстия. Выполните установку изделия в соответствии с инструкциями изготовителя.
8. Не устанавливайте изделие рядом с источниками тепла, такими, как радиаторы, решетки системы отопления, или другими устройствами, которые генерируют тепло (включая усилители).
9. В целях безопасности не отказывайтесь от использования вилок поляризованного или заземляющего типа. Вилка поляризованного типа имеет два ножевых контакта, один из которых шире другого. Вилка заземляющего типа имеет два контакта и третий заземляющий штырь. Широкое лезвие третьего заземляющего штыря предусмотрено для вашей безопасности.  
Если вилка поставляемого вместе с аппаратом шнура питания не подходит для вашей розетки, попросите опытного электрика заменить старую розетку.
10. Не наступайте на шнур питания и не допускайте его защемления, особенно вблизи от штепсельной вилки, в месте подключения к розетке и там, где шнур выходит из изделия.
11. Пользуйтесь только теми приспособлениями/ принадлежностями, которые рекомендованы изготовителем.
12. Используйте устройство только с тележкой, подставкой, штативом, кронштейном и столом, указанными производителем или приобретенными вместе с устройством. Во избежание травм вследствие опрокидывания тележки с устройством соблюдайте осторожность при ее передвижении.
13. Отсоединяйте устройство от сети во время грозы или если оно не используется в течение длительного времени.
14. Все работы, связанные с техническим обслуживанием изделия, должны выполняться квалифицированными специалистами по техническому обслуживанию. Обслуживание изделия требуется выполнять, когда изделие получило какое-либо повреждение, например, был поврежден его шнур питания или вилка шнура питания, внутрь изделия попала жидкость или посторонние предметы, изделие подверглось воздействию дождя или влаги, изделие не работает должным образом, а также после падения изделия.
15. Питание для данного изделия должно подаваться устройством электропитания с маркировкой Class 2 или LPS и с номинальными значениями 12 В пост. тока, 0,62 А / 37-57 В пост. тока (питание по Ethernet), 0,19 А.
16. Если при установке изделия прилагать чрезмерные усилия, возможно повреждение с нарушением работы камеры. Если с силой устанавливать устройство, пользуясь неподходящими инструментами, возможно повреждение устройства.
17. Не допускается установка устройства в местах, где присутствуют или могут появляться химические вещества или пары масла. Поскольку пищевые масла, например, соевое, могут вызвать повреждение или привести к деформации устройства, не устанавливайте его на кухне или вблизи кухонного стола.  
В противном случае возможна порча устройства.
18. При установке устройства будьте осторожны, не допускайте попадания химических веществ на его поверхность. Некоторые химические растворители, например, очистители или клеящие вещества, могут сильно повредить поверхность продукта.
19. Если монтировать/демонтировать устройство не рекомендованным образом, нельзя гарантировать выполнение функций/соответствие характеристик устройства.  
Устанавливайте устройство, обратившись к разделу "Установка и подключение" в руководстве пользователя.
20. Установка или эксплуатация устройства в воде может привести к значительному повреждению изделия.



## ПРЕДУПРЕЖДЕНИЕ

ВО ИЗБЕЖАНИЕ ПОВРЕЖДЕНИЙ, СЛЕДСТВИЕМ КОТОРЫХ МОЖЕТ БЫТЬ ПОЖАР ИЛИ ПОРАЖЕНИЕ ЭЛЕКТРИЧЕСКИМ ТОКОМ, НЕ ДОПУСКАЙТЕ ПОПАДАНИЯ ДАННОГО ИЗДЕЛИЯ ПОД ДОЖДЬ ИЛИ В УСЛОВИЯ ВЫСОКО Й ВЛАЖНОСТИ. ЗАПРЕЩАЕТСЯ ВСТАВЛЯТЬ КАКИЕ-ЛИБО МЕТАЛЛИЧЕСКИЕ ПРЕДМЕТЫ В ВЕНТИЛЯЦИОННЫЕ РЕШЕТКИ ИЛИ ДРУГИЕ ОТВЕРСТИЯ В ОБОРУДОВАНИИ.

Не подвергайте устройство воздействию жидкостей. Не следует также ставить на него предметы, наполненные жидкостью, например вазы.

Во избежание травм данное устройство должно быть надежно закреплено на стене/потолке в соответствии с инструкциями по установке.

## ВНИМАНИЕ



## ОПИСАНИЕ ГРАФИЧЕСКИХ ОБОЗНАЧЕНИЙ



Молния со стрелкой в равностороннем треугольнике предупреждает пользователя об "опасном напряжении" в корпусе изделия, которое может представлять риск поражения электрическим током.



Восклицательный знак в равностороннем треугольнике предупреждает пользователя о важных инструкциях по работе и обслуживанию в руководстве, которое прилагается к устройству.

## Класс Конструкции I

Устройства КЛАССА I следует подключать к ЭЛЕКТРО розетке с защитным заземлением.

## Батарея

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

The battery cannot be replaced.

## Отключение устройства

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

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

## ВНИМАНИЕ

Настоящие инструкции по обслуживанию предназначены только для квалифицированных специалистов.

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

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

К источнику входного питания может подсоединяться только одна камера.

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

Внимательно прочитайте приведенные ниже правила техники безопасности.

- Не ставьте устройство на неровную поверхность.
- Не устанавливайте устройство на поверхность, подверженную прямым солнечным лучам, рядом с нагревательным оборудованием или в очень холодном месте.
- Не устанавливайте это устройство вблизи электропроводящего.
- Не следует ремонтировать устройство самостоятельно.
- Не следует ставить на устройство стаканы с водой.
- Не устанавливайте поблизости источники магнитного поля.
- Не допускайте заграждения вентиляционных отверстий.
- Не ставьте тяжелые предметы на устройство.
- При установке/демонтаже камеры надевайте защитные перчатки. Высокая температура поверхности изделия может вызвать ожог.

Руководство пользователя содержит инструкции по использованию продуктов.

В руководстве используются следующие обозначения.

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

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## ХАРАКТЕРИСТИКИ УСТРОЙСТВА

- **Поддерживаются видео с разрешением 2М пикселей.**
- **Потоковая передача данных с использованием универсального кодека**  
Эта сетевая камера может отображать видео с различным разрешением и качеством одновременно с помощью разных кодеков.
- **Наблюдение с помощью веб-обозревателя**  
Использование веб-обозревателя для просмотра изображений в локальной сетевой среде.
- **Тревога**  
При возникновении события соответствующее видео отправляется либо на зарегистрированный пользователем адрес электронной почты, FTP сервер, или сохраняется на карту памяти Micro SD, или в сетевом хранилище (NAS), или же на терминал выхода сигнала тревоги отправляется сигнал.
- **Детектор несанкционированного вмешательства**  
Выявление попыток вмешательства в настройки видеонаблюдения.
- **Функция обнаружения расфокусировки**  
Обнаруживает признаки расфокусировки объектива камеры.
- **Детектор движения**  
Определение движения с конкретного видеовхода камеры.
- **Распознавание аудио**  
Распознавание звука, уровень громкости которого выше заданного пользователем.
- **Smart Codec**  
Адаптивное применение кодеков к части областей угла обзора камеры для повышения качества выбранной пользователем зоны.
- **Обнаружение тумана**  
Обнаруживается туман, более плотный, чем установленный уровень.
- **Распознавание лица**  
В заданной зоне на видео с камеры обнаруживаются лица.
- **Интеллектуальная видео аналитика (IVA)**  
Определяется движение или ситуация, которая соответствует заданным правилам наступления событий.
- **Классификация источника звука**  
Определяется источник звука, указанный пользователем.
- **Соответствие ONVIF**  
Данное устройство поддерживает ONVIF Profile S&G.  
Веб-сайт [www.onvif.org](http://www.onvif.org).



## РЕКОМЕНДУЕМАЯ КОНФИГУРАЦИЯ ПК

- Процессор : Intel(R) Core(TM) i7 3,4 ГГц или больше
  - ОЗУ: 8 Гб или больше
  - Поддерживаемые ОС : Windows, Mac OS X
  - Рекомендуемый браузер : Google Chrome
  - Поддерживаемые браузеры : MS Explorer, MS Edge, Mozilla Firefox (только 64-битная Windows), Apple Safari (который поддерживается только Mac OS X)
- ※ Подробную информацию о поддерживаемых ОС и браузерах см. в приложении.  
Некоторые функции могут быть ограничены даже в поддерживаемых браузерах.

## РЕКОМЕНДУЕМЫЕ ХАРАКТЕРИСТИКИ КАРТ ПАМЯТИ МИКРО SD/SDHC/SDXC

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

## 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

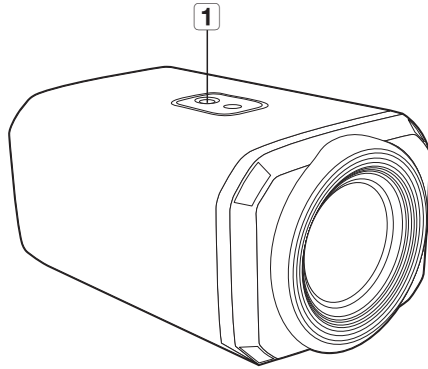
Проверьте наличие всех принадлежностей в комплекте поставки камеры.  
(У изделий, продаваемых в разных странах, принадлежности могут отличаться.)

Внешний вид	Название элемента	Количество	Описание
	Камера	1	
	Руководство пользователя, Установщик ПО на диске CD	1	
	Краткое Руководство (необязательно)	1	
	Гарантийный талон (необязательно)	1	
	Кабель для тестирования монитора	1	Используется для подключения камеры к портативному устройству отображения
	10-позиционный клеммный блок	1	Подключение к клеммам ввода/вывода сигналов тревоги

-  ■ SFP-модули и волоконно-оптические преобразователи продаются отдельно. Выберите и приобретите SFP-модуль для 100 Base-FX и волоконно-оптический преобразователь.


ОБЩИЙ ОБЗОР

Передняя сторона

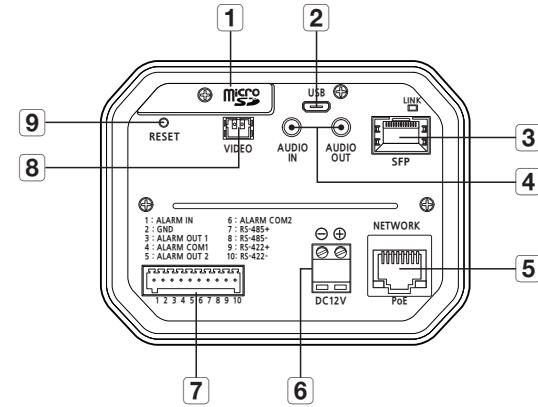


Элемент	Описание
<b>1</b> Резбовое отверстие для крепления кронштейна	Используется для крепления камеры на монтажный кронштейн. <ul style="list-style-type: none"> <li>Размер винта : Это – спецификация на винты, которые используются для прикрепления камеры к опоре. 1/4" - 20 UNC Длина: 4,5 ± 0,2 мм (стандарт ISO) или 0,197" (стандарт ASA)</li> </ul>



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

Задняя сторона



Элемент	Описание	
<b>1</b> Отсек для карты памяти Микро SD	Отсек для карты памяти Микро SD.	
<b>2</b> Порт Micro-USB	Порт для подключения адаптера WiFi. Можно просмотреть видео об установке через приложения, установленные на смартфоне. См. "Подключение к адаптеру Wi-Fi" на стр. 12. <ul style="list-style-type: none"> <li>Аппаратный ключ WiFi и переходник OTG продаются отдельно.</li> </ul>	
<b>3</b> Слот SFP-модуля	Разъем, который обеспечивает волоконно-оптическое соединение через SFP-модуль (тип LC). (100Base-FX)	
<b>4</b> Разъем аудиовыхода	AUDIO OUT	Используется для подключения к динамикам.
	AUDIO IN	Используется для подключения к микрофону.
<b>5</b> Порт Сеть	Подсоединение кабеля PoE или Ethernet для установки сетевого подключения.	
<b>6</b> Порт питания	Используется для подключения кабеля питания.	

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.
	ALARM COM	Общий разъем, который соединяет сигнал выхода аварийной сигнализации.
	GND	Используется для грунтового заземления.
	RS-485+/RS-485-	Линия передачи данных RS-485
	RS-422+/RS-422-	Линия передачи данных RS-422
8 Порт тестирования выходного сигнала монитора	Порт вывода для тестирования выходного видеосигнала наблюдения. Подсоедините мобильный дисплей к порту с помощью кабеля для тестирования видеонаблюдения и проверьте видео.	
9 Кнопка сброса	<p>Восстановление заводских настроек по умолчанию для всех параметров камеры. Для перезагрузки системы нажмите и удерживайте в течение 5 секунд.</p> <p><b>!</b> Если сбросить настройки камеры, то сетевые настройки позволят активировать DHCP. Если в сети сервер DHCP отсутствует, необходимо запустить программу IP Installer, чтобы изменить основные настройки сети (IP-адрес, маска подсети, шлюз и проч.), прежде чем подключаться к сети.</p>	

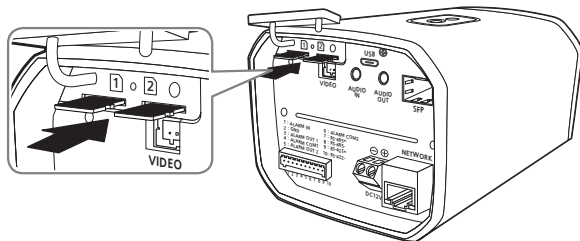
- !** Порт RS-485/RS-422 поддерживает прямое подключение с драйвером поворота/наклона, внешние подключения контроллера RS-485/RS-422 не поддерживаются.

## УСТАНОВКА/ИЗВЛЕЧЕНИЕ КАРТЫ ПАМЯТИ МИКРО SD

- ❗ Перед установкой карты Микро SD отключите кабель питания от камеры.
- Не вставляйте его через силу в обратном направлении. Это может привести к повреждению карты памяти Микро SD и изделия.
- Не рекомендуется вставлять или вынимать карту памяти Микро SD во время дождя или при высокой влажности.

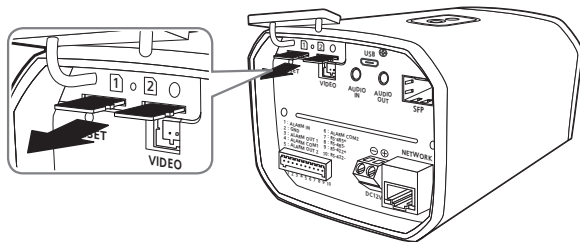
### Установка карты памяти Микро SD

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



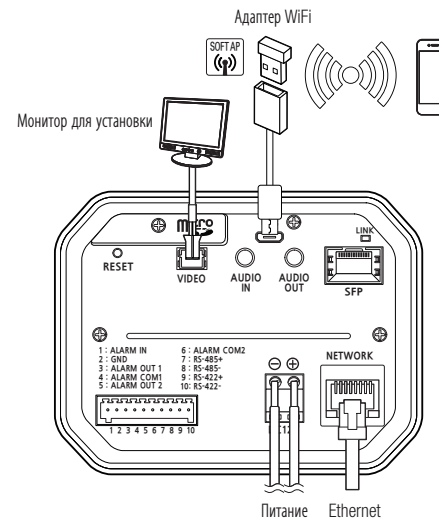
### Извлечение карты памяти Микро SD

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.

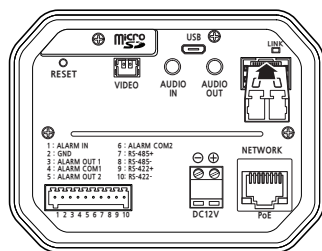
## ПОДКЛЮЧЕНИЕ К ДРУГОМУ УСТРОЙСТВУ



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

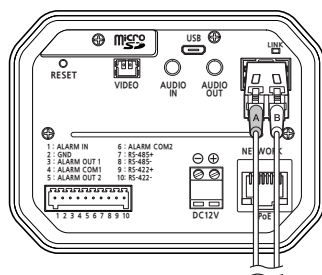
## Подключение SFP-модуля

1. Вставьте SFP-модуль.



2. Присоедините оптический кабель (AB) типа LC к SFP.

3. Присоедините другой конец оптического кабеля (BA) к волоконно-оптическому преобразователю, который составляет пару с SFP-модулем.



■ SFP-модули и волоконно-оптические преобразователи продаются отдельно.

■ Рекомендуются SFP-модули и волоконно-оптические преобразователи следующих изготовителей:

- Comnet, IFS, Skylane, AVAGO, CISCO

■ Присоедините SFP-модуль и волоконно-оптический преобразователь посредством кросс-соединения (AB/BA).

■ Соединение SFP-модуля должно быть выполнено после того, как подсоединенная камера отключена.

■ Не устанавливайте и не снимайте SFP-модуль, пока камера включена.

■ Перекручивание оптического кабеля может вызвать нарушение соединения для связи.

■ Не смотрите прямо на оптический кабель. Это может вызвать повреждение глаз.

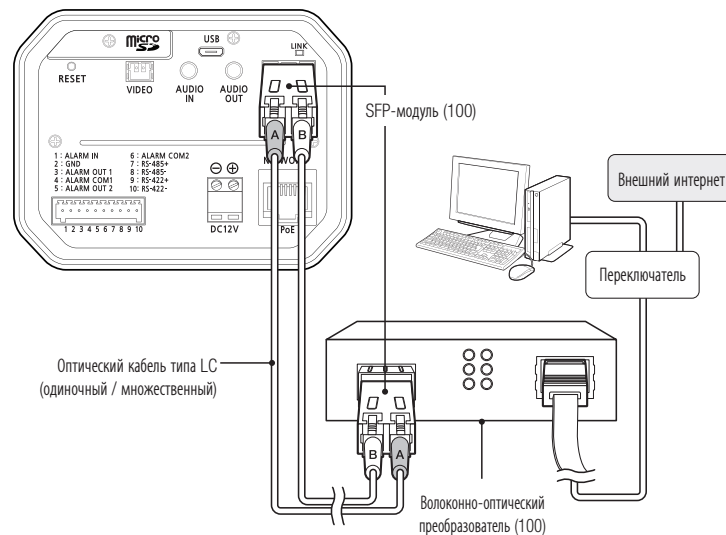
## Подключение к сети Ethernet

Подключитесь к своей местной сети или к интернету посредством подсоединения Ethernet-кабеля или оптического соединения SFP.

Ethernet-соединение данного изделия поддерживает резервную линию связи между RJ-45 и SFP, при этом SFP имеет приоритет.

Пример поведения системы:

- Если SFP-порт подсоединяется во время использования RJ-45, SFP активируется для Ethernet-соединения, тогда как RJ-45 деактивируется.
- Если SFP-соединение неожиданно прерывается во время использования SFP, соединение RJ-45 автоматически активируется.



## Подключение WiFi

### Настройка камеры

1. Подключите переходник OTG (5-контактный) и аппаратный ключ WiFi к соединителю micro USB.

### Настройка смартфона

1. Установите приложение для установки Wisenet.
2. После включения Wi-Fi выберите SSID камеры.
3. Запустите приложение для установки Wisenet.
4. После входа в камеру будет подключено видео (первоначальный пароль: 4321)
  - Во время первоначального подключения без входа в систему видео будет воспроизводиться.
5. Угол обзора камеры можно регулировать во время просмотра видео на смартфоне.

### Рекомендуемый производитель адаптеров

Производитель	Модель
NETIS	WF2123 n300
EDIMAX	EW-7811Un
IP Time	N100mini
TP-LINK	TL-WN823N V1
ASUS	USB-N13
NETGEAR	WNA3100M

## Источник питания

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

- ! ■ Если источники питания для питания по Ethernet и 12 В постоянного тока включаются одновременно, для питания устройства будет использоваться внешний источник питания (12 В постоянного тока).
  - Также для подачи питания к видеокамере используется маршрутизатор с поддержкой PoE.
  - Применяемая технология PoE должна быть совместима с протоколами IEEE802.3af.
  - Как в случае питания по Ethernet, так и в случае 12 В постоянного тока, рекомендуется использование единого источника питания.
- Подключая кабель питания, будьте очень внимательны, чтобы не перепутать полярность.
- Если необходимо подключить внешнее устройство, перед началом работы его необходимо выключить.
- Сначала соедините устройство и шнур адаптера питания, а затем включите кабель питания в стенную розетку.

## Спецификация на силовую кабель для каждой модели

Входная мощность	Тип проводов (AWG)	Длина кабеля (макс.)
DC 12V	#20	23m
	#18	30m

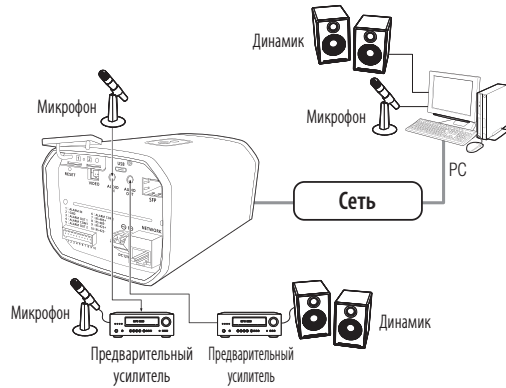
## Спецификация сетевого кабеля

Пункт	Содержание	Примечание
Разъем	RJ45 (10/100BASE-TX)	
Ethernet	10/100Base-TX	
Кабель	UTP категории 5е	
Макс. расстояние	100 м	Сопротивление постоянного тока ≤ 0,125 / м
Поддержка питания по Ethernet	IEEE 802.3af	

## Стандарт Ethernet для оптической связи

Пункт	Содержание
Ethernet: Оптическая связь	SFP (тип LC)
Оптическая связь: Физический уровень Ethernet	100 Base-FX
Оптическая связь: Скорость по умолчанию	100 Мбит/с
Оптическая связь: Стандарт Ethernet	IEEE 802.3u

## 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

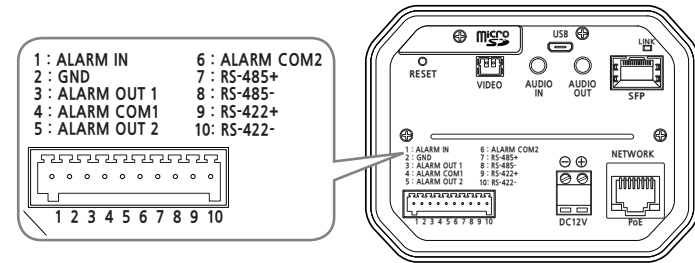
- Аудио вход : G.711 PCM (скорость передачи: 64кбит/с / частота дискретизации: 8кГц), G.726 АДИКДМ (скорость передачи: 16кбит/с , 24кбит/с , 32кбит/с , 40кбит/с / частота дискретизации: 8кГц), AAC (скорость передачи: 48кбит/с / частота дискретизации: 16кГц)
- Аудио выход : G.711 PCM (скорость передачи: 64кбит/с / частота дискретизации: 8кГц)

### • Дуплексное аудио

- **Звуковой вход** : Моносигнальный линейный вход (макс. 2,4 В пикового напряжения)
- **Звуковой выход** : Моносигнальный линейный выход (макс. 2,4 В пикового напряжения)
- **Сопrotивление 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.
- **ALARM COM** : Общий разъем, который соединяет сигнал выхода аварийной сигнализации.
- **GND** : Используется для грунтового заземления.
- **RS-485+** : Порт связи для ресивера RS-485 (+).
- **RS-485-** : Порт связи для ресивера RS-485 (-).
- **RS-422+** : Порт связи для ресивера RS-422 (+).
- **RS-422-** : Порт связи для ресивера RS-422 (-).

## Подключение внешнего устройства RS-485/422

Подключите камеру к внешнему устройству с помощью портов [RS-485/422 +, -]. Можно управлять операциями панорамирования\наклона через соединение по RS-485/422.

- Для связи через RS-485/422 рекомендуется подключить разъем GND. При обнаружении ошибки связи подключите контакт GND к соответствующему разъему GND между камерой и внешним устройством.

## Изменение протокола RS-485/422

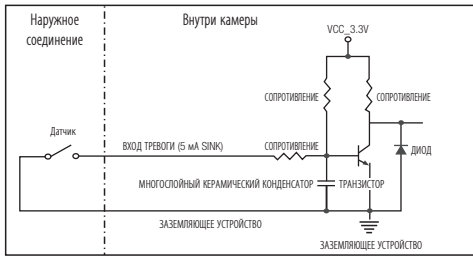
После получения доступа к веб-средству просмотра перейдите в меню **Setup** → **PTZ** → **External PTZ**, чтобы изменить протокол.



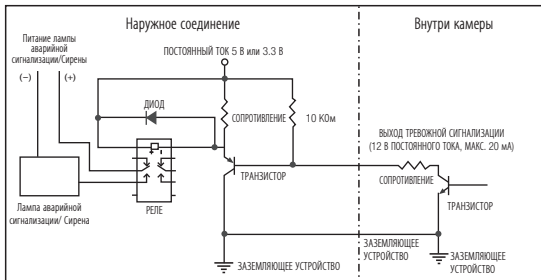
## Подключение к внешнему датчику

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

## Монтажная схема входа тревоги



## Монтажная диаграмма выхода тревоги

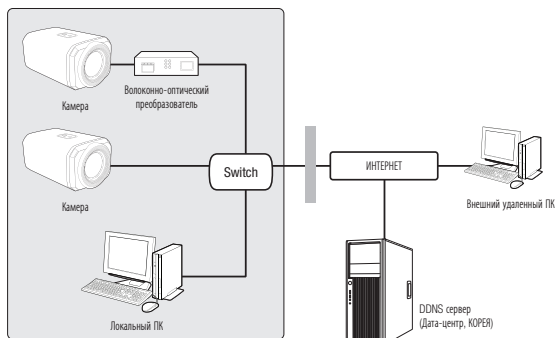


Можно выставить сетевые настройки согласно сетевой конфигурации.

## ПОДКЛЮЧЕНИЕ КАМЕРЫ НАПРЯМУЮ К ЛОКАЛЬНОЙ СЕТИ

### Подключение к камере через локальный ПК в локальной сети

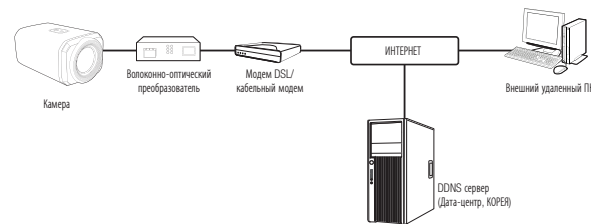
1. Запустите Интернет-браузер на локальном ПК.
2. Введите адрес IP-роутера в адресной строке браузера.



<Локальная сеть>

- Удаленный ПК во внешней сети или в Интернете не может подключиться к камере, установленной в интранет, если не задана правильная перенадресация портов или установлен фаервол. В этом случае обратитесь к системному администратору для устранения проблемы.
- Для задания IP-адреса, маски подсети, шлюза, порта HTTP, порта VNP и типа IP в установщике IP можно использовать первоначальный пароль "4321". Для лучшей защиты после изменения сетевого интерфейса войдите в web viewer и поменяйте пароль.
- Согласно заводским настройкам по умолчанию, IP-адрес назначается сервером DHCP автоматически. Если сервер DHCP отсутствует, будет задан следующий IP-адрес: 192.168.1.100. Чтобы изменить IP-адрес, используйте программу IP Installer. Для получения дополнительных сведений о программе IP Installer см. раздел "Настройка статического IP-адреса". (Стр. 16)

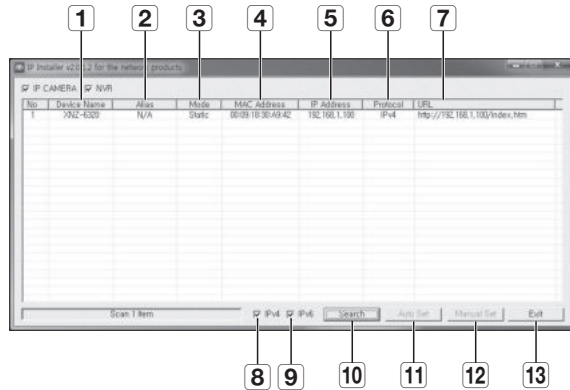
## ПРЯМОЕ ПОДКЛЮЧЕНИЕ КАМЕРЫ К МОДЕМУ DSL/КАБЕЛЬНОМУ МОДЕМУ С ПОДДЕРЖКОЙ ПРОТОКОЛА DDNS



1. Подсоедините напрямую ПК пользователя с сетевой камерой.
2. Запустите программу IP Installer и измените IP-адрес камеры, чтобы использовать веб-браузер на рабочем столе для подключения к Интернету.
3. Установите подключение к интерактивной программе просмотра в веб-браузере.
4. Перейдите на страницу [Настройка].
5. Перейдите на страницу [Сеть] - [DDNS] и настройте параметры DDNS.
6. Перейдите по меню [Basic] - [IP & Порт] и задайте тип IP для [DHCP].
7. Подсоедините камеру, отключенную от ПК, непосредственно к модему.
8. Перезапустите камеру.

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

## ЭЛЕМЕНТЫ ЭКРАННОГО МЕНЮ ПРОГРАММЫ IP INSTALLER



Элемент	Описание
<b>1</b> Device Name	Название модели подключенной камеры. Щелкните этот столбец, чтобы отсортировать список по названиям моделей. Поиск прекратится, если щелкнуть мышью до его окончания.
<b>2</b> Alias	Эта функция сейчас недоступна.
<b>3</b> Mode	Текущее состояние сетевого соединения: <Static> или <Dynamic>.
<b>4</b> MAC(Ethernet) Address	Адрес Ethernet для подключенной камеры. Щелкните этот столбец, чтобы отсортировать список по адресам Ethernet. Поиск прекратится, если щелкнуть мышью до его окончания.
<b>5</b> IP Address	IP-адрес. Щелкните этот столбец, чтобы отсортировать список по IP-адресам. Поиск прекратится, если щелкнуть мышью до его окончания.
<b>6</b> Protocol	Настройка сети для конкретной камеры. Заводская настройка по умолчанию "IPV4". Камера с настройкой IPv6 отображается как "IPV6".
<b>7</b> URL	DDNS URL-адрес для доступа из внешней сети Интернет. Этот адрес будет заменен на <IP Address> камеры, если произойдет сбой регистрации DDNS.
<b>8</b> IPv4	Поиск камер с настройкой IPv4.

Элемент	Описание
<b>9</b> IPv6	Поиск камер с настройкой IPv6. Активируется в среде, где имеется поддержка IPv6.
<b>10</b> Search	Поиск камер, подключенных в данный момент к сети. Эта кнопка будет неактивной, если ни IPV4, ни IPV6 не выбраны.
<b>11</b> Auto Set	Программа IP Installer автоматически настраивает параметры сети.
<b>12</b> Manual Set	Настройка сети вручную.
<b>13</b> Exit	Выход из программы IP Installer.

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

## НАСТРОЙКА СТАТИЧЕСКОГО IP-АДРЕСА

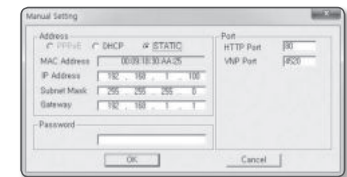
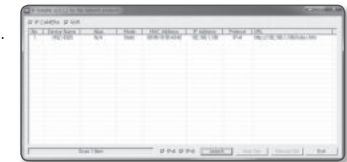
### Настройка сети вручную

Запустите <IP Installer\_v2.XX.exe>, чтобы получить доступ к списку поиска камеры. Кнопки [Auto Set] и [Manual Set] будут неактивны при первом запуске программы.

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

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

- Соответствующие параметры IP устанавливаются только, когда DHCP не проверена.



### В случае отсутствия Широкополосный маршрутизатор

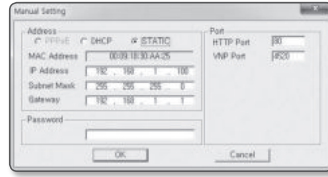
Узнайте значения параметров <IP Address>, <Subnet Mask> и <Gateway> у своего сетевого администратора.

4. В разделе <Port> укажите необходимую информацию.

- HTTP Port : Используется для получения доступа к камере через веб-обозреватель. Значение по умолчанию - 80.
- VNP Port : используется для управления передачей видеосигнала. Значение по умолчанию - 4520.

5. Введите пароль.

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



! ■ По соображениям безопасности для пароля рекомендуется использовать сочетание цифр, строчных и прописных букв, а также специальных символов.

■ За информацией об изменении пароля обратитесь к онлайнной справке программы Web Viewer.

6. Нажмите кнопку [OK].

Ручная настройка сети завершена.

### В случае использования Широкополосный маршрутизатор

• IP Address : введите адрес, который соответствует IP-диапазону, заданному Широкополосный маршрутизатор.  
 пр) 192.168.1.2~254, 192.168.0.2~254, 192.168.XXX.2~254

• Subnet Mask : параметр <Subnet Mask> Широкополосный маршрутизатор соответствует параметру <Subnet Mask> камеры.

• Gateway : параметр <Local IP Address> Широкополосный маршрутизатор соответствует параметру <Gateway> камеры.



✍ ■ Параметры могут различаться в зависимости от модели Широкополосный маршрутизатор.

Для получения дополнительных сведений см. руководство пользователя соответствующего маршрутизатора.

■ Дополнительную информацию о переадресации портов на широкополосном маршрутизаторе см. в разделе "Настройка Переадресация Диапазона Портов (Распределение Портов)". (Стр. 18)

### Если к Широкополосный маршрутизатор подключено несколько камер

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

пр)

Категория		Камера №1	Камера №2
Настройки, связанные с IP	IP Address	192.168.1.100	192.168.1.101
	Subnet Mask	255.255.255.0	255.255.255.0
	Gateway	192.168.1.1	192.168.1.1
Настройки, связанные с портами	HTTP Port	8080	8081
	VNP Port	4520	4521

✍ ■ Если для параметра <HTTP Port> выбрано значение свыше 80, необходимо указать номер <Port> в адресной строке веб-обозревателя, прежде чем получить доступ к камере.

пр) http://IP-адрес : Порт HTTP  
 http://192.168.1.100:8080

### Автоматическая настройка сети

Запустите <IP Installer\_v2.XX.exe>, чтобы получить доступ к списку поиска камеры.

Кнопки [Auto Set] и [Manual Set] будут неактивны при первом запуске программы.

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

1. Выберите камеру в списке поиска.

Проверьте MAC-адрес, указанный на наклейке видеокamеры.

Кнопки [Auto Set] и [Manual Set] станут активными.

2. Нажмите кнопку [Auto Set].

Появится диалоговое окно Auto Setting.

Значения параметров <IP Address>, <Subnet Mask> и <Gateway> будут установлены автоматически.



3. Введите пароль.

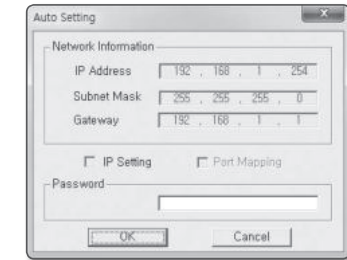
Укажите пароль учетной записи "admin", которая использовалась для доступа к камере.

! ■ По соображениям безопасности для пароля рекомендуется использовать сочетание цифр, строчных и прописных букв, а также специальных символов.

■ За информацией об изменении пароля обратитесь к онлайнной справке программы Web Viewer.

4. Нажмите кнопку [OK].

Автоматическая настройка сети завершена.



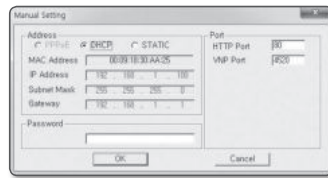
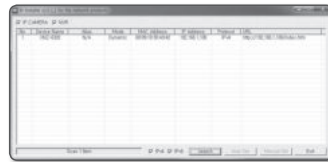
## НАСТРОЙКА ДИНАМИЧЕСКОГО IP-АДРЕСА

### Настройка динамического IP-окружения

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

### Просмотр динамического IP-адреса

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

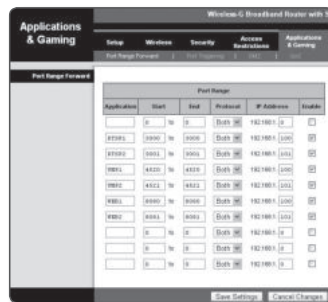


## НАСТРОЙКА ПЕРЕАДРЕСАЦИИ ДИАПАЗОНА ПОРТОВ (РАСПРЕДЕЛЕНИЕ ПОРТОВ)

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

### Переадресации диапазона портов вручную

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.



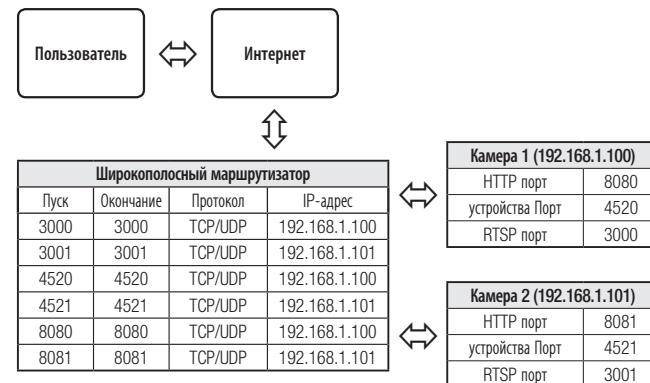
3. Затем нажмите кнопку [Save Settings]. Заданные настройки будут сохранены.

- Выше приведены инструкции для Широкополосный маршрутизатор CISCO.
- Параметры могут различаться в зависимости от модели Широкополосный маршрутизатор. Для получения дополнительных сведений см. руководство пользователя соответствующего маршрутизатора.

### Настройка переадресации диапазона портов для нескольких сетевых камер

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

Когда камера 1 и камера 2 подключены к маршрутизатору:



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

## ПОДКЛЮЧЕНИЕ К КАМЕРЕ С ЛОКАЛЬНОГО КОМПЬЮТЕРА ОБЩЕГО ДОСТУПА

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



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

## ПОДКЛЮЧЕНИЕ К КАМЕРЕ С УДАЛЕННОГО КОМПЬЮТЕРА ЧЕРЕЗ ИНТЕРНЕТ

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

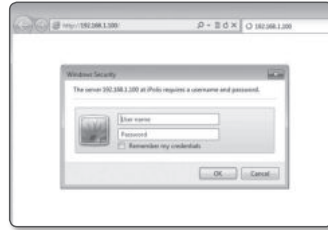
1. Прежде чем получить доступ к камере в сети Широкополосный маршрутизатор, необходимо настроить переадресацию диапазона портов для Широкополосный маршрутизатор.
2. На удаленном компьютере запустите веб-обозреватель и введите DDNS URL-адрес камеры или IP-адрес Широкополосный маршрутизатор в адресную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

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

## ПОДКЛЮЧЕНИЕ К КАМЕРЕ

### Обычный порядок действий

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




### Номер порта HTTP отличен от 80

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

### Использование URL-адреса

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

 ■ Сетевое подключение выключено только в среде LAN.

### Подключение через UPnP

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

### Соединение через службу Bonjour

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

### Просмотр DDNS-адреса

Если камера подключена непосредственно к кабельному модему на основе DHCP или к модему DSL, то IP-адрес будет изменяться каждый раз при соединении с Интернет-провайдером (компанией, с которой у вас подписка).

В этом случае вам не будет сообщаться об изменении IP-адреса, выполненном DDNS.

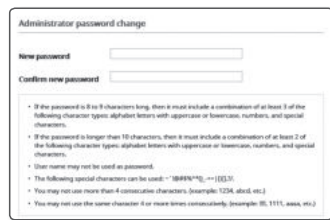
Если вы регистрируете устройство с динамическим IP-адресом на сервере DDNS, то во время доступа к этому устройству вы всегда можете проверить, как изменился его IP-адрес.

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

## УСТАНОВКА ПАРОЛЯ

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

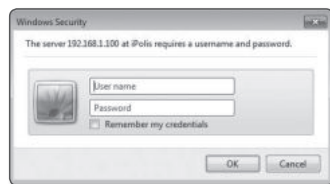
- Для нового пароля от 8 до 9 символов, необходимо использовать не менее 3 символов из числа следующих: строчные/прописные буквы, цифры и специальные символы. Для пароля от 10 до 15 символов необходимо использовать не менее 2 типов указанных символов.
  - Допускаются следующие специальные символы : ~!@#\$\$%^&\*()\_ - +=!00.??
- 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.

## НАСТРОЙКА WEB VIEWER

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

**ХАРАКТЕРИСТИКИ**

Элементы	Описание	
Видео	Устройство обработки изображения	1/2.8" 2.4M CMOS
	Общее количество пикселей	1981(Г) x 1288(В), 2.55M
	Количество эффективных пикселей	1944(Г) x 1212(В), 2.35M
	Система сканирования	Прогрессивная
	Мин. освещенность	Цветное : 0,05 Lux (1/30 с, F1.6) Ч/Б : 0,005 Lux (1/30 с, F1.6)
	Соотношение сигнал/шум	50дБ
	Видеовыход	CVBS : 1,0 Vp-p / 75Ω композитный, 720x480(N), 720x576(P), Для установки USB : Micro USB, тип B, 1280X720, для установки
Объектив	Фокусное расстояние (коэффициент трансфокации)	4,44 ~ 142,6мм(оптическое увеличение 32X)
	Макс. относительное отверстие	F1.6 (широкоугольный) / F4.4 (телескопический)
	Угловое поле зрения	H : 61,8°(широкоугольный) ~ 2,19°(телескопический) / V : 36,2°(широкоугольный) ~ 1,24°(телескопический)
	Мин. расстояние до объекта	широкоугольный 1,5м, телескопический 2м
	Регулятор фокусировки	Автоматически / вручную / покадровая фокусировка (One shot AF)
	Тип объектива	Автоматическая регулировка диафрагмы по постоянному току (DC Auto Iris)
	Тип крепления	Тип board-in
Рабочие характеристики	Название камеры	Выкл. / Вкл (отображается до 85 знаков) - Общемировые: Английские/Цифровые/Специальные символы - Общие: Многострочный (до 5), цвет (серый/зеленый/красный/синий/черный/белый), прозрачность, автоматическое масштабирование по разрешению
	День/Ночь	Авто (ICR) / Цвет / B/W / Расписание
	Компенсация подсветки	Выкл. / BLC / HLC / WDR
	Широкий динамический диапазон	150dB
	Улучшение контрастности	SSDR (Выкл / Вкл)
	Цифровое шумоподавление	SSNR5 (фильтр шумов 2D+3D) (Выкл / Вкл)
	Цифровая стабилизация изображения	Выкл. / вкл. (встроенный Gyro)

Элементы	Описание
Защита от зпотевания	Авто / Вручную / Выкл.
Детектор движения	Выкл. / вкл. (8 шт., Polygonal)
Зоны маскирования	Выкл. / вкл. (24 зон, многоугольных областей) - Цвет: серый, зеленый, красный, синий, черный, белый - Опция кратности масштабирования для режима выделения - Мозаика
Регулировка усиления	Выкл. / Низкий / Средний / Высокий
Баланс белого	ATW / AWC / Средний/Внутри / Снаружи (включая металлик и матовый)
Скорость электронного затвора	Минимум / Максимум / Защита от мерцания (1 ~ 1/12 000 с)
Цифровое масштабирование	32x
Поворот изображения	Прерывающее зеркало: Вкл. / выкл.
Анализ видео и аудио	Постороннее вмешательство, режим ожидания, выявление направления, выявление тумана, виртуальная линия, войти/выйти появится/исчезнуть, обнаружение по шуму, функция распознания лиц, обнаружение движения, классификация звука, обнаружение удара.
Последовательный интерфейс	RS-485/RS-422 - Samsung-T, Pelco-D/P, Panasonic, Bosch, AD, GE, Vicon, Honeywell
Ввод-вывод сигнализации	Ввод – 1 шт. / вывод – 2 шт. (реле)
Триггеры сигналов тревоги	Вход тревожного сигнала, обнаружение движения, анализ видео и аудио, отключение от локальной сети.
События тревоги	<ul style="list-style-type: none"> <li>Загрузка файлов через FTP, электронную почту</li> <li>Уведомление через E-Mail, TCP и HTTP</li> <li>Местное хранилище данных (SD/SDHC/SDXC) или NAS с записью при отключенной сети и наступлении события (срабатывание сигнала тревоги)</li> <li>Внешний вывод</li> <li>Предварительная установка</li> </ul>
Аудио вход	На выбор (вход Mic IN /вход Line IN) Сетевое напряжение: 2,5 В постоянного тока (4 мА), входное сопротивление: приблизительно 2 кОм
Аудио выход	Линейный выход, максимальный сигнал: 1 В действ.
Счетчик пикселей	Поддержка

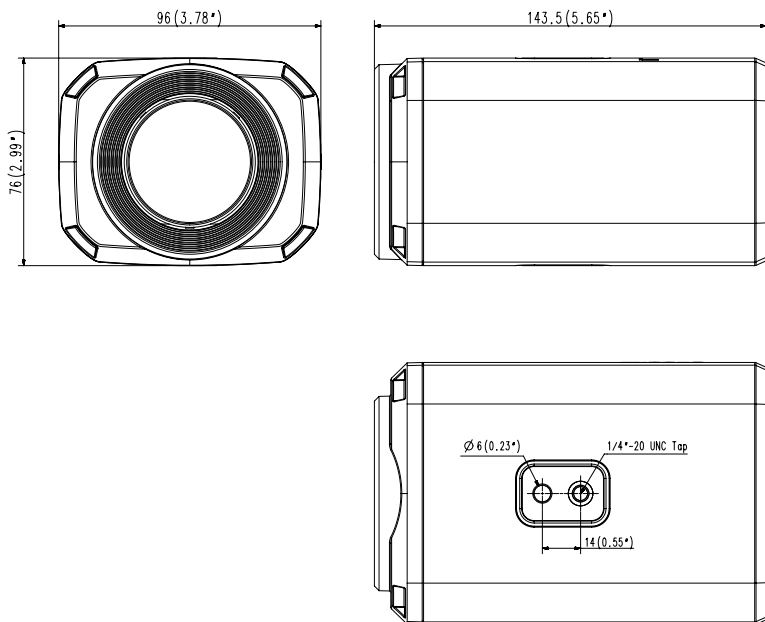
Элементы	Описание
Ethernet	RJ-45 (10/100BASE-TX), SFP-слот (100Base-FX)
Формат сжатия видео	H.264 (MPEG-4 Part 10/AVC), H.265, Motion JPEG
Разрешение	1920x1080 / 1280x1024 / 1280x960 / 1280x720 / 1024x768 / 800x600 / 800x448 / 720x576 / 720x480 / 640x480 / 640x360 / 320x240
Макс. частота кадров	H.265/H.264 : Макс. 60кадр/с при любых разрешениях Motion JPEG : Макс. 30кадр/с при любых разрешениях
Кодек Smart	Ручной режим (по зонам: 5 шт.)
WiseStream II	Поддерживается
Настройка качества видео	для H.264 / H.265 / MJPEG : Заданной скорости бит
Способы управления скоростью передачи бит	для H.264/H.265 : CBR или VBR Motion JPEG : VBR
Возможности потоковой передачи	Многопоточная (до 10 профилей)
Формат сжатия звука	G.711 μ-law /G.726 выбираемый G.726 (ADPCM) 8 КГц, G.711 8 КГц G.726 : 16 Кбит/с, 24 Кбит/с, 32 Кбит/с, 40 Кбит/с AAC-LC: 48 кбит/с при 16 кГц
Аудиосвязь	Двунаправленная
IP	IPv4, IPv6
Протокол	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour
Безопасность	Проверка подлинности при входе HTTPS (SSL) проверка подлинности при входе Digest фильтрация IP-адресов регистрация доступа пользователей Способ проверки подлинности 802.1X (EAP-TLS, EAP-LEAP)

Сеть

Элементы	Описание
Способ потоковой передачи	Одноадресная / многоадресная
Макс. количество пользователей	20 пользователей в одноадресном режиме
Функция Edge Store	Micro SD/SDHC/SDXC (до 512 Гбайт) - Непрерывная запись (с 1-го слота на 2-й) - Можно загрузить изображения движения, записанные на карте памяти SD/SDHC/SDXC. NAS (сетевое хранилище данных) Локальный ПК для быстрой записи
Программируемый интерфейс	ONVIF Profile S/G SUNAPI 2.0(HTTP API) Открытая платформа Wisenet
Язык веб-страницы	Английский, Корейский, Французский, Немецкий, Испанский, Итальянский, Китайский, Русский, Японский, Шведский, Португальский, Чешский, Польский, Турецкий, Голландский, Венгерский, Греческий
Веб-обозреватель	Поддерживаемые ОС : Windows 7 / 8.1 / 10, MAC OS X 10.10, 10.11, 10.12 Рекомендуемый браузер: Google Chrome Поддерживаемые браузеры: MS Explorer 11, MS Edge, Mozilla Firefox (только Windows 64-bit), Apple Safari (только Mac OS X)
ПО для центрального управления	SmartViewer
Условия	Рабочая температура/влажность -10°C ~ +55°C (14°F ~ +131°F) / Относительная влажность менее 90%. Температура хранения/влажность -30°C ~ +60°C (-22°F ~ +140°F) / Относительная влажность менее 90%. Пыле- и влагозащита - Защита от умышленной порчи -
Электропитание	Входное напряжение/сила тока 12 В пост. тока ±10 %, питание по Ethernet (IEEE 802.3af, класс 3) Потребляемая мощность Макс. 6,7 Вт (12 В пост. тока), Макс. 7 Вт (питание по Ethernet)
Физические характеристики	Цвет/материал Черный / пластик + металл Размеры Ш96 x В76 x Г143.5мм (3.78" x 2.99" x 5.65") Вес 580г

ПРИЛОЖЕНИЕ

Единицы измерения: мм (дюймы)



ПОИСК И УСТРАНЕНИЕ НЕПОЛАДОК

ПРОБЛЕМА	РЕШЕНИЕ
Если пользователь Windows 10 получает доступ к Web viewer через Chrome или Firefox, громкость микрофона периодически изменяется.	<ul style="list-style-type: none"> <li>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.</li> </ul>
Если доступ производится через подключаемый программный модуль Free webviewer на Safari через HTTPS, видео не отображается.	<ul style="list-style-type: none"> <li>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".</li> <li>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.</li> </ul>
Нет доступа к камере через веб-браузер.	<ul style="list-style-type: none"> <li>Проверьте на правильность сетевые настройки камеры.</li> <li>Убедитесь в правильности подключения всех сетевых кабелей.</li> <li>Убедитесь в том, что камера получает динамический IP-адрес при использовании DHCP-технологии.</li> <li>Если камера подключена к Широкополосный маршрутизатор, убедитесь в том, что переадресация портов настроена правильно.</li> </ul>
Происходит разрыв соединения по время мониторинга видео в экране просмотра.	<ul style="list-style-type: none"> <li>При любом изменении настроек камеры или сети происходит разрыв соединения с наблюдательными терминалами.</li> <li>Проверьте все сетевые соединения.</li> <li>Может произойти разрыв соединения при плохой связи, если камера подключена к PPPoE.</li> </ul>
Программа IP Installer не находит камеру, подключенную к сети.	<ul style="list-style-type: none"> <li>Отключите фаервол на своем ПК и заново запустите поиск камеру.</li> </ul>
Картинки перекрываются.	<ul style="list-style-type: none"> <li>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.</li> </ul>
Нет картинки.	<ul style="list-style-type: none"> <li>Если задан метод передачи на группу адресов, убедитесь, что в локальной сети, к которой подключена камера, есть роутер, поддерживающий технологию multicast.</li> </ul>

ПРОБЛЕМА	РЕШЕНИЕ
Голос не записывается, даже если заданы настройки входа аудио.	<ul style="list-style-type: none"> <li>• Необходимо установить флажок &lt;Аудио вход&gt; в меню &lt;Basic&gt; - &lt;Профиль видео&gt;.</li> </ul>
<Детектор движения> в меню <Аналитика> установлено в <Активировать>, но уведомления по электронной почте не приходят, даже когда произошло событие аналитики.	<ul style="list-style-type: none"> <li>• Проверьте настройки в следующей последовательности:               <ol style="list-style-type: none"> <li>А. Проверьте настройки параметра &lt;Дата и время&gt;.</li> <li>В. Для параметра &lt;Детектор движения&gt; необходимо задать значение &lt;Активировать&gt;.</li> <li>С. Проверьте, выбран ли в меню &lt;Настройка событий&gt; параметр &lt;Настройка событий&gt;.</li> </ol> </li> </ul>
Сигнал тревоги не выводится на соответствующий порт даже при регистрации события анализа интеллектуального видео.	<ul style="list-style-type: none"> <li>• Проверьте настройки для выходных портов сигналов.</li> </ul>
Не удается записать данные на карту памяти Micro SD.	<ul style="list-style-type: none"> <li>• Проверьте, исправна ли карта памяти.</li> </ul>
Карта памяти Micro SD установлена, однако камера работает неверно.	<ul style="list-style-type: none"> <li>• Проверьте, в правильном ли направлении вставлена карта памяти. Возможность использования карт памяти, отформатированных на других устройствах, не гарантируется.</li> <li>• Снова отформатируйте карту памяти в меню &lt;Настройка&gt; → &lt;Событие&gt; → &lt;Накопитель&gt;.</li> </ul>
Не удается произвести запись в NAS.	<ul style="list-style-type: none"> <li>• Убедитесь в том, что информация, зарегистрированная в NAS, указана верно.</li> </ul>
Это сообщение о том, что настройка NAS не удалась.	<ul style="list-style-type: none"> <li>• Убедитесь в том, что IP-адрес NAS введен правильно.</li> <li>• Убедитесь в том, что ID/пароль NAS введены правильно.</li> <li>• Убедитесь в том, что доступ к папке, установленной в качестве основной папки с использованием ID номера NAS, открыт.</li> <li>• Убедитесь в том, что с элементов NAS SMB/CIFS сняты флажки (выделения).</li> <li>• Убедитесь в том, что IP-адрес NAS и IP-адрес камеры имеют одинаковый формат.               <p>Ех) Начальное значение маски подсети для NAS и камеры 255.255.255.0.</p> <p>Если IP-адрес 192.168.20.32, то IP-адрес NAS должен быть в диапазоне 192.168.20.1~192.168.20.255.</p> </li> <li>• Проверьте, не осуществлялась ли попытка получения доступа под другим пользователем без форматирования основной папки (сохраненной или используемой).</li> <li>• Убедитесь в том, что используется рекомендуемое оборудование NAS.</li> </ul>

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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	<a href="http://www.busybox.net/downloads/snapshots">http://www.busybox.net/downloads/snapshots</a>
iproute2-4.3.0	GPL 2.0	
iptables-1.4.21	GPL 2.0	<a href="http://ftp.netfilter.org/pub/iptables">http://ftp.netfilter.org/pub/iptables</a>
ethtool-4.2	GPL 2.0	
mtd-1.5.2	GPL 2.0	<a href="ftp://ftp.infradead.org/pub/mtd-utils">ftp://ftp.infradead.org/pub/mtd-utils</a>
mi-diag-2.11	GPL 2.0	
rp-pppoe-3.11	GPL 2.0	<a href="http://www.roaringpenguin.com/pppoe/">http://www.roaringpenguin.com/pppoe/</a>
wpa_supplicant-2.5	GPL 2.0	
bash-4.3.30	GPL 3.0	
zeroconf	GPL 2.0	

## LGPL SW

Component Name	License	URL
glibc	LGPL 2.0	
inetutils	LGPL 3.0	
neon-0.29.6	LGPL 2.0	<a href="http://www.webdav.org/neon/">http://www.webdav.org/neon/</a>

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established by T-Engine Forum  
on January 23, 2004  
revised on June 17, 2004  
revised on December 21, 2006  
revised on March 24, 2009

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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.

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bzip2/libbzip2 version 1.0.5 of 10 December 2007

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iperf performance test

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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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