

СЕТЕВАЯ КАМЕРА

Руководство пользователя

XNV-6012/XNV-6012M/XNV-6013M
XNV-6022R/XNV-6022RM



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. Если при установке изделия прилагать чрезмерные усилия, возможно повреждение с нарушением работы камеры. Если с силой устанавливать устройство, пользуясь неподходящими инструментами, возможно повреждение устройства.
16. Не допускается установка устройства в местах, где присутствуют или могут появляться химические вещества или пары масла. Поскольку пищевые масла, например, соевое, могут вызвать повреждение или привести к деформации устройства, не устанавливайте его на кухне или вблизи кухонного стола. В противном случае возможна порча устройства.
17. При установке устройства будьте осторожны, не допускайте попадания химических веществ на его поверхность. Некоторые химические растворители, например, очистители или клеящие вещества, могут сильно повредить поверхность продукта.
18. Если монтировать/демонтировать устройство не рекомендованным образом, нельзя гарантировать выполнение функций/соответствие характеристик устройства.
Устанавливайте устройство, обратившись к разделу "Установка и подключение" в руководстве пользователя.
19. Установка или эксплуатация устройства в воде может привести к значительному повреждению изделия.



ПРЕДУПРЕЖДЕНИЕ

ВО ИЗБЕЖАНИЕ ПОВРЕЖДЕНИЙ, СЛЕДСТВИЕМ КОТОРЫХ МОЖЕТ БЫТЬ ПОЖАР ИЛИ ПОРАЖЕНИЕ ЭЛЕКТРИЧЕСКИМ ТОКОМ, НЕ ДОПУСКАЙТЕ ПОПАДАНИЯ ДАННОГО ИЗДЕЛИЯ ПОД ДОЖДЬ ИЛИ В УСЛОВИЯ ВЫСОКОЙ 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 (батареиный блок) чрезмерному нагреванию под воздействием солнечных лучей, огня и т.п.

Отключение устройства

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

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

ВНИМАНИЕ

Существует риск взрыва при замене батарее на батарею несоответствующего типа. Утилизируйте использованные батареи в соответствии с инструкциями.

Настоящие инструкции по обслуживанию предназначены только для квалифицированных специалистов.

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

К источнику входного питания может подсоединяться только одна камера.

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

Внимательно прочитайте приведенные ниже правила техники безопасности.

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

Руководство пользователя содержит инструкции по использованию продуктов.

В руководстве используются следующие обозначения.

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

В некоторых условиях установки могут возникать помехи радиосвязи.

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

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РЕКОМЕНДУЕМАЯ КОНФИГУРАЦИЯ ПК

- Процессор : Intel(R) Core(TM) i7 3,4 ГГц или больше
 - ОЗУ: 8 ГБ или больше
 - Поддерживаемые ОС : Windows, Mac OS X
 - **Дополнительный программный модуль Free web viewer**
Поддерживаемые веб-браузеры : Google Chrome, MS Edge, Mozilla Firefox (только 64-битная Windows), Apple Safari (который поддерживается только Mac OS X)
 - **Webviewer с дополнительным программным модулем**
Поддерживаемые веб-браузеры : MS Explorer, Apple Safari (который поддерживается только Mac OS X).
- ※ Подробную информацию об ОС и браузере см. в приложении.

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

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.

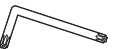
Рекомендуемые продукты	Доступные размеры
QNAP NAS	Максимальное количество камер для одновременного доступа - 16.
Synology NAS	Максимальное количество камер для одновременного доступа - 16.



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

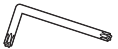
КОМПЛЕКТ ПОСТАВКИ (XNV-6012/6012M/6022R/6022RM)

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

Внешний вид	Название элемента	Количество	Описание	Название модели
	Камера	1		XNV-6012/ XNV-6012M/ XNV-6022R/ XNV-6022RM
	Краткое Руководство (необязательно)	1		Использовать для всех моделей.
	Гарантийный талон (необязательно)	1		
	Звездобразный ключ	1	Используется для снятия/установки крышки купола	
	Самонарезающий винт M4	2	Используется при монтаже камеры на стене или на потолке.	
	Пластиковый дюбель	2	Используется для фиксации винта, вставляется в отверстие (повышенная прочность фиксации)	
	Шаблон	1	Используется при установке камеры.	
	Установочный кронштейн	1	Используется при установке камеры на стене или в металлическом кожухе (отдельно).	
	Винт M4 для установочного кронштейна	2	Используется для крепления камеры на установочном кронштейне.	XNV-6012/ XNV-6022R
	Комплекующий влагостойкий аксессуар RJ45	1	Используется для обеспечения водонепроницаемости кабеля с соединителем RJ45.	

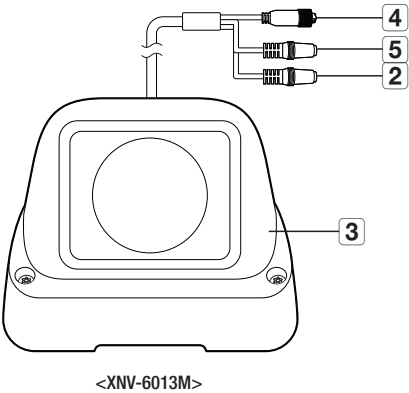
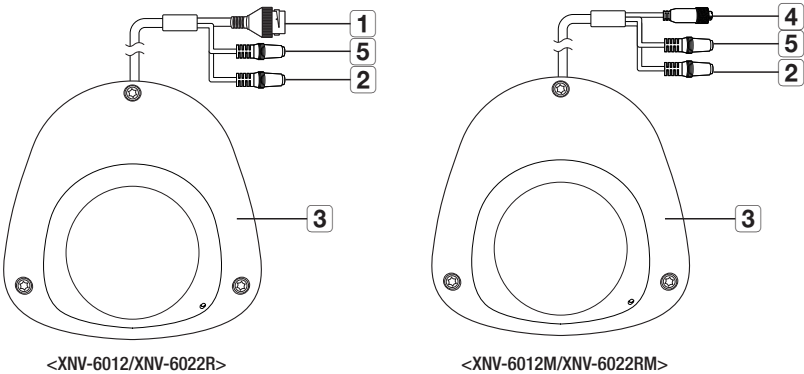
КОМПЛЕКТ ПОСТАВКИ (XNV-6013M)

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

Внешний вид	Название элемента	Количество	Описание
	Камера	1	
	Краткое Руководство (необязательно)	1	
	Гарантийный талон (необязательно)	1	
	Звездобразный ключ	1	Используется для снятия/установки крышки купола
	Самонарезающий винт M4	4	Используется при монтаже камеры на стене или на потолке.
	Уплотнительное кольцо	4	Используется самонарезной винт M4 (влагостойкий)
	Пластиковый дюбель	4	Используется для фиксации винта, вставляется в отверстие (повышенная прочность фиксации)
	Шаблон	1	Используется при установке камеры.

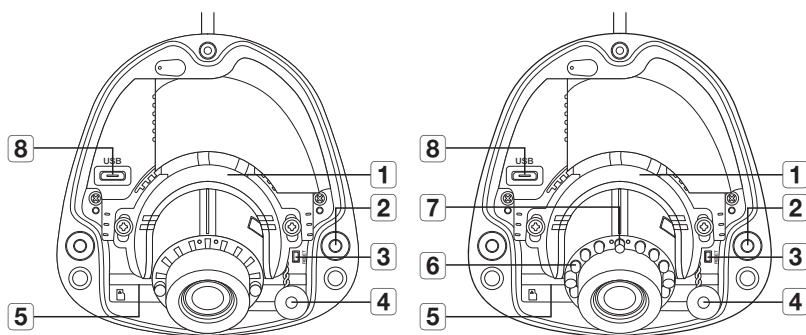
ОБЩИЙ ОБЗОР

Внешний вид



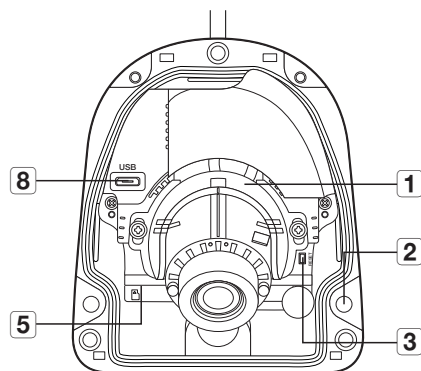
Элемент	Описание
1 Соединитель PoE	Им подключается локальная сеть и напряжение питания, идущее по кабелю Ethernet.
2 Гнездо входа аудио	Используется для подключения к микрофону (розовое).
3 Крышка купола	Крышка корпуса, предназначенная для защиты объектива и основного
4 Гнездовой кабельный соединитель M12	Подключение к штыревому кабельному соединителю M12 для подключения питания и выполнения сетевых подключений.
5 Гнездо выхода аудио	Используется для подключения к динамикам (зеленое).

Внутренняя часть



<XNV-6012/XNV-6012M>

<XNV-6022R/XNV-6022RM>



<XNV-6013M>

Элемент	Описание
1 Крышка объектива	Используется для защиты и крепления объектива.
2 Крепежное отверстие	Отверстие используется для крепления камеры на потолке.
3 Кнопка сброса	Восстановление значений по умолчанию для всех параметров камеры. Нажмите и удерживайте в течение примерно 5 секунд, чтобы перезагрузить систему. ■ 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 Отверстие микрофона	Встроен микрофон.
5 Отсек для карты памяти Микро SD	Отсек для карты памяти Микро SD.
6 Инфракрасный светодиод	Инфракрасные светодиоды управляются светочувствительным датчиком.
7 Светочувствительный датчик	Обнаруживает поступающий свет для управления инфракрасным светодиодом.
8 Порт Micro-USB	Порт для подключения адаптера Wi-Fi. Можно просмотреть видео об установке через приложения, установленные на смартфоне. (используется при монтаже) См. "Подключение к адаптеру Wi-Fi" на стр. 15. ■ Аппаратный ключ WiFi и переходник OTG продаются отдельно.

УСТАНОВКА

Меры предосторожности, принимаемые перед установкой

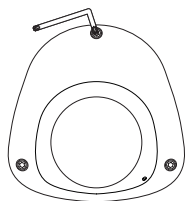
Прежде чем устанавливать камеру, обязательно прочтите приведенные далее инструкции.

- При установке на потолок выбранное место установки должно выдерживать вес, как минимум в 5 раз превышающий вес камеры.
- Кабели с поврежденной или снятой изоляцией могут стать причиной повреждения устройства или возгорания.
- С целью предосторожности попросите посторонних лиц покинуть место установки. На всякий случай уберите все посторонние личные вещи.
- Данная камера является влагозащищенным аппаратом, соответствующим стандартам IP66 (XNV-6012M/6022RM) и IP67 (XNV-6013M). Однако, если не применяются стандартный соединитель M12 и стандартный кабель, штекерная часть не будет водонепроницаемой. При монтаже аппарата рекомендуется использовать стандартный внешний кабель M12.
- При установке камеры снаружи транспортного средства удостоверьтесь, что она закреплена на плоской поверхности. Если поверхность для монтажа искривлена, камера может не приклеиться надлежащим образом к резине и, возможно, не будет влагостойкости.

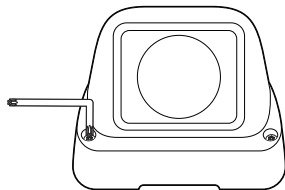
Разборка

После отворачивания винтов вращением их против часовой стрелки звездообразным ключом снимите купольную крышку.

- Нет необходимости отворачивать винты полностью.



<XNV-6012/6012M/6022R/6022RM>



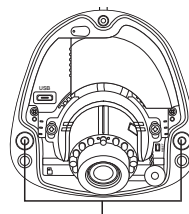
<XNV-6013M>

Установка

1. Учитывая направление наблюдения, приложите шаблон и просверлите по нему отверстия.
2. Закрепите камеру на этих отверстиях, используя прилагающиеся самонарезные винты.

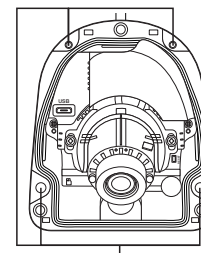


- При монтаже изделия на стене используйте прилагающийся установочный кронштейн.



Крепежное отверстие

<XNV-6012/6012M/6022R/6022RM>



Крепежное отверстие

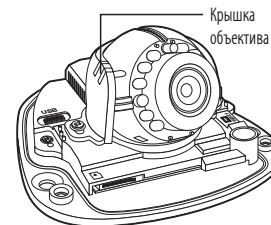
<XNV-6013M>

3. Для ослабления винтов на обеих сторонах крышки объектива камеры поверните винты против часовой стрелки.



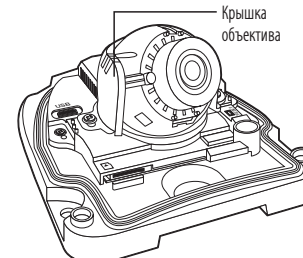
- Принудительный наклон объектива (кожуха) без ослабления винтов может привести к поломке изделия.

4. Отрегулируйте направление объектива см. раздел **“Регулировка направления наблюдения камеры”**. (стр. 13)



Крышка объектива

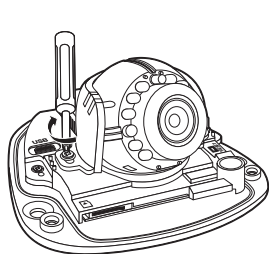
<XNV-6012/6012M/6022R/6022RM>



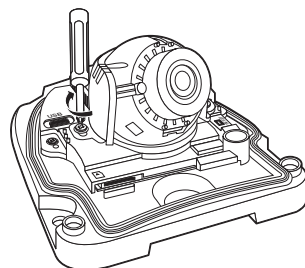
Крышка объектива

<XNV-6013M>

5. После регулировки угла для фиксации положения объектива поверните винты по часовой стрелке.



<XNV-6012/6012M/6022R/6022RM>

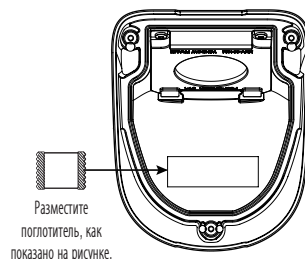


<XNV-6013M>

6. (Только для XNV-6013M.) Установите дополнительные поглотители влаги в виде карточки. Поглотитель влаги поставляется как дополнительная принадлежность, в герметичной упаковке. Он препятствует конденсации влаги внутри устройства, которая могла попасть внутрь во время установки камеры (при снятии крышки).

- 1) Распакуйте поглотитель влаги.
- 2) Удалите защитную ленту с поглотителя и прикрепите его на верхнюю крышку с внутренней стороны, как показано на рисунке.
- 3) Закройте верхнюю крышку.

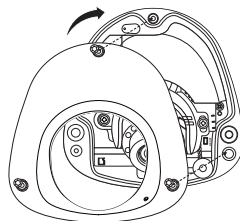
- ! ■ Не устанавливайте камеру во влажной среде (это может вызвать запотевание).
- Не оставляйте устройство без крышки больше чем на 10 минут.
- Если поглотитель влаги распакован:
- не оставляйте его больше чем на пять минут;
 - не подходите близко к воде.
- Весь процесс (снятие крышки, установка поглотителя влаги и закрытие крышки) не должен занять больше 10 минут.



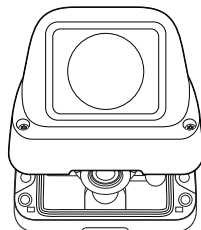
Разместите поглотитель, как показано на рисунке.

7. Для закрепления купольной крышки приложите ее и затяните винты, вращая их по часовой стрелке звездобразным ключом.

- ! ■ Плохо закрытая крышка может стать причиной попадания влаги в устройство.



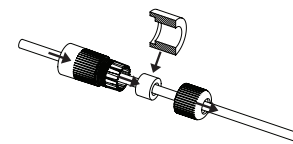
<XNV-6012/6012M/6022R/6022RM>



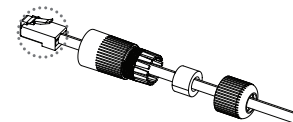
<XNV-6013M>

Подключение влагостойкого кабеля RJ45 к кабелю локальной сети (XNV-6012/6022R)

1. Вставьте его в направлении, показанном стрелкой.

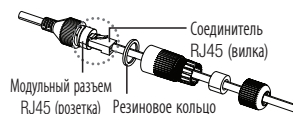


2. Подключите соединитель локальной сети (вилка) к кабелю.



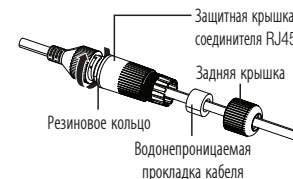
3. Подключите модульный разъем (розетка) к соединителю RJ45 (вилка).

- ! ■ Храните каждую из частей отдельно.



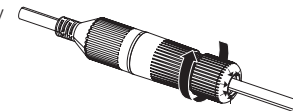
Соединитель RJ45 (вилка)
Модульный разъем RJ45 (розетка) Резиновое кольцо

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



Защитная крышка соединителя RJ45
Задняя крышка
Резиновое кольцо
Водонепроницаемая прокладка кабеля

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



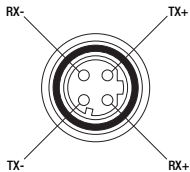
- ! ■ Необходимо полностью собрать узел, повернув заднюю крышку до конца винтовой резьбы соединителя RJ45.

Подключение соединителя кабеля (XNV-6012M/6013M/6022RM)

Вставьте штыревой соединитель M12 в отверстие гнезда M12 камеры.

- В данной камере используются соединители гнездового типа, D-coded.
- Поддерживается PoE (питание по Ethernet).
- Рекомендуется использовать экранированный сетевой соединитель.

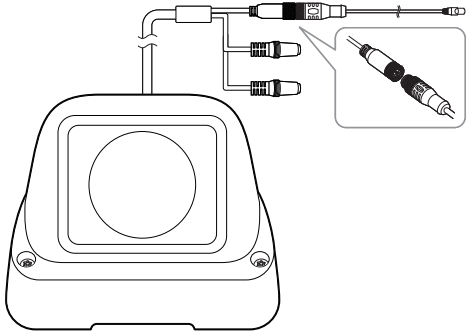
- Подключите эту камеру к экранированному сетевому кабелю.
- Используйте внешние кабели с 4-контактными штыревыми соединителями D-code, соответствующие спецификации M12.
- Проверьте, правильно ли заземлено устройство для питания по Ethernet .



Подключение выполняется кабелем-переходником M12-RJ45 (XNV-6012M/6013M/6022RM)

Подключите штекер разъема M12 кабеля преобразования в гнездо разъема M12 вашей камеры.

- Кабель M12-RJ45 продается отдельно.



Питание и сеть (XNV-6012/6022R)

Подключение камеры к оборудованию PoE.

- Выполните подключение к соединителю маршрутизатора, поддерживающему PoE.
- Используйте соединение PoE, совместимое с протоколами IEEE802.3af.

Питание и сеть (XNV-6012M/6013M/6022RM)

Подключите к оборудованию PoE камеру, либо соединитель кабеля-переходника M12-RJ45 вашей камеры.

- Способ подключения может отличаться в зависимости от условий установки пользователя.
- Выполните подключение к соединителю маршрутизатора, поддерживающему PoE.
- Используйте соединение PoE, совместимое с протоколами IEEE802.3af. Можно использовать только устройства типа А для питания по Ethernet через пары контактов 1, 2, 3, 6.
- Даже применяя кабель-переходник M12-RJ45, возможно использование только оборудования PoE, работающего в режиме А, которое подает питание на контакты данных 1, 2, 3, 6 витой пары.

Спецификация сетевого кабеля

Пункт	Содержание	Примечание
Разъем	RJ45	
Ethernet	10/100Base-T	10/100 Мбит/с
Кабель	UTP категории 5е	
Макс. расстояние	100 м	Сопrotивление по постоянному току ≤ 0,188 Ом/м
Поддержка питания по Ethernet	IEEE 802.3af	

Наружный монтаж

При монтаже этого устройства вне здания, пожалуйста, обеспечьте его водонепроницаемость с помощью водонепроницаемой ленты бутылкаучука (ее можно купить в магазине) так, чтобы вода не протекла в щель кабеля, выведенного наружу. (XNV-6012/6022R)

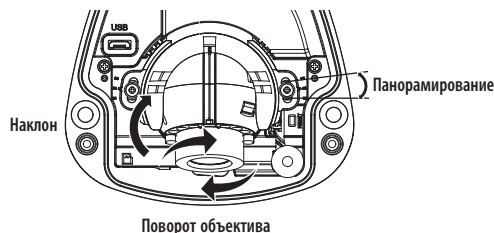
Так как вода может проникнуть из зазора подключенного внешнего кабеля, при установке камеры снаружи здания без использования разъема и кабеля M12, для гидроизоляции необходимо использовать бутылкаучковую ленту, как показано ниже. (XNV-6012M/6013M/6022RM)

1. Подсоедините кабель PoE.
2. Оберните черный кабельный кожух (Зона А) и зону присоединения кабеля водонепроницаемой лентой (бутылкаучук) так, чтобы лента бутылкаучука перекрывалась больше чем на половину.



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

Регулировка направления наблюдения камеры (XNV-6012/6012M/6022R/6022RM)



■ Настройка направления мониторинга

Направление камеры можно регулировать, только когда она закреплена на потолке.

Поворот блока видеокамеры влево или вправо называется панорамированием, регулировка наклона – наклоном, а осевое перемещение объектива – вращением.

- Максимальный диапазон ПАНОРАМИРОВАНИЯ от -5° to $+5^{\circ}$.
- Угол ПОВОРОТА от -90° до $+90^{\circ}$.
- Общий диапазон НАКЛОНА 67° .

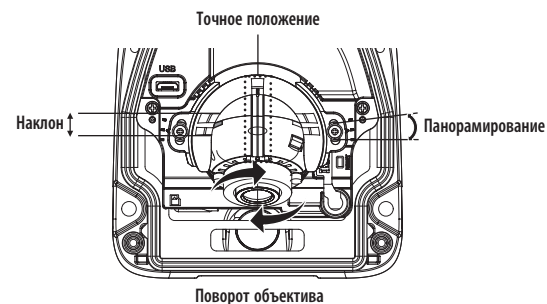


- Использование камеры при углах за пределами технических данных может привести к отражению ИК излучения или к нечеткости изображения.

■ Способы регулировки

1. После установки камеры отрегулируйте угол панорамирования с учетом направления наблюдения.
2. Установите горизонтальный угол таким образом, чтобы изображение не переворачивалось.
3. Отрегулируйте угол поворота таким образом, чтобы камера была направлена на наблюдаемый объект.

Регулировка направления наблюдения камеры (XNV-6013M)



■ Настройка направления мониторинга

Направление камеры можно регулировать, только когда она закреплена на потолке.

Поворот блока видеокамеры влево или вправо называется панорамированием, регулировка наклона – наклоном, а осевое перемещение объектива – вращением.

- Максимальный диапазон ПАНОРАМИРОВАНИЯ от -5° to $+5^{\circ}$.
- Угол ПОВОРОТА от -90° до $+90^{\circ}$.
- Максимальный диапазон наклона от -10° до $+10^{\circ}$.



- При использовании угла поворота, отличающегося от указанного, изображение может перекрываться. В частности, следует обращать внимание на то, чтобы при регулировании наклона отмеченная часть на объективе не выходила за диапазон, указанный стрелкой.
- При совместном использовании функций панорамирования и наклона изображение может перекрываться.
- Изображение может перекрываться при неправильном направлении вида (0 градусов) в режиме обозрения холла.

■ Способы регулировки

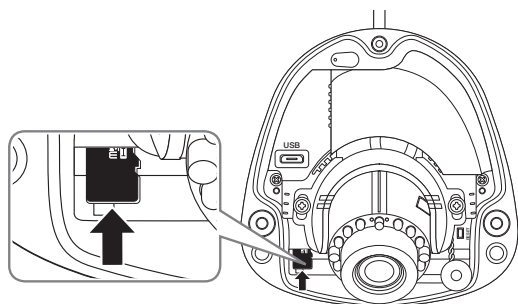
1. Установите длинную метку в центре объектива в точное положение.
2. После установки камеры отрегулируйте угол панорамирования с учетом направления наблюдения.
3. Установите горизонтальный угол таким образом, чтобы изображение не переворачивалось.
4. Отрегулируйте угол поворота таким образом, чтобы камера была направлена на наблюдаемый объект.

УСТАНОВКА/ИЗВЛЕЧЕНИЕ КАРТЫ ПАМЯТИ МИКРО SD

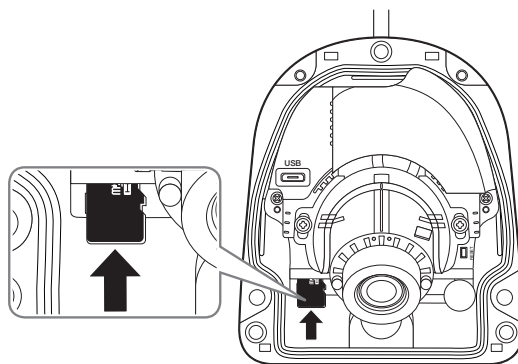
- ❗ Перед установкой карты Микро SD отключите кабель питания от камеры.
- Правильно расположенная карта памяти Микро SD вставляется без усилия. Принудительная установка карты памяти Микро SD не той стороной может привести к ее повреждению.
- Не рекомендуется вставлять или вынимать карту памяти Микро SD во время дождя или при высокой влажности.
- Снятие крышки изделия следует закончить в течение 5 минут, поскольку в противном случае возникает опасность конденсации росы внутри изделия.

Установка карты памяти Микро SD

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



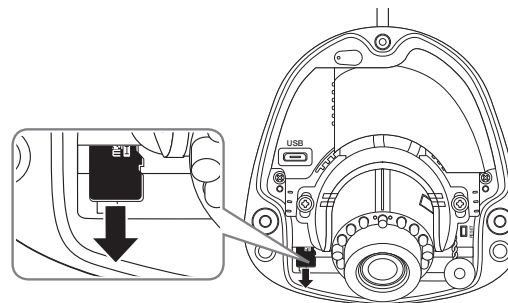
<XNV-6012/6012M/6022R/6022RM>



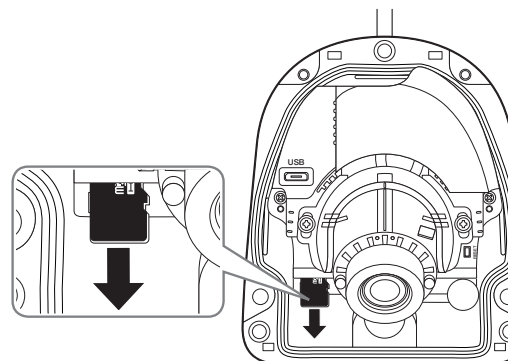
<XNV-6013M>

Извлечение карты памяти Микро SD

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



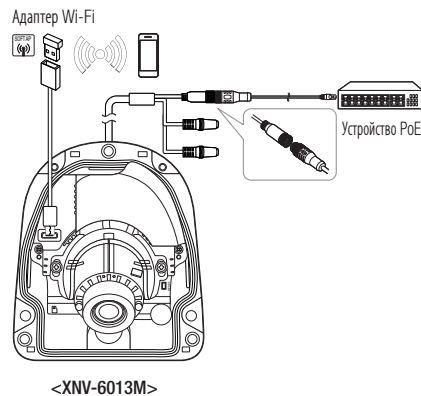
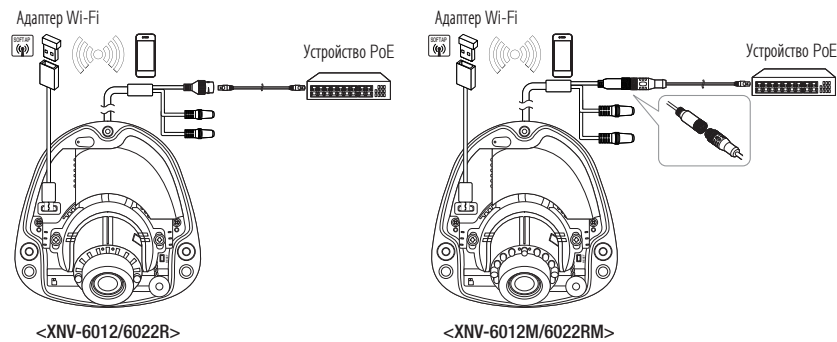
<XNV-6012/6012M/6022R/6022RM>



<XNV-6013M>

- ❗ Будьте осторожны, поскольку карта памяти Micro SD при извлечении может выскочить, если ее нажать и отпустить.
- 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 Микро USB устройства предназначен для облегчения монтажа и не рекомендуется использовать его для целей мониторинга.

Подключение Wi-Fi

Настройка камеры

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

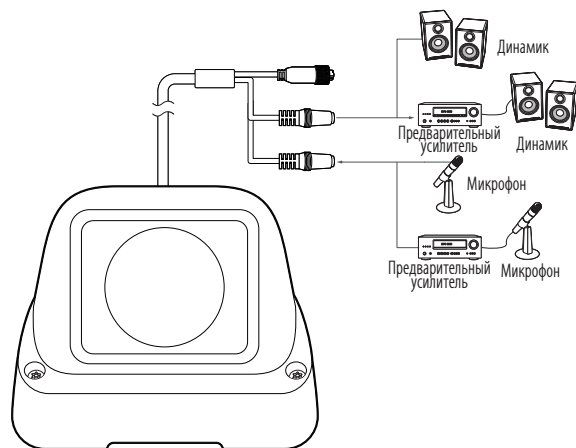
Smartphone Setup

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

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.

■ Если имеется встроенный микрофон, его можно использовать вместо внешнего микрофона. (относится только к XNV-6012/6012M/6022R/6022RM).

■ В условиях сильного окружающего шума рекомендуется использовать внешний 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

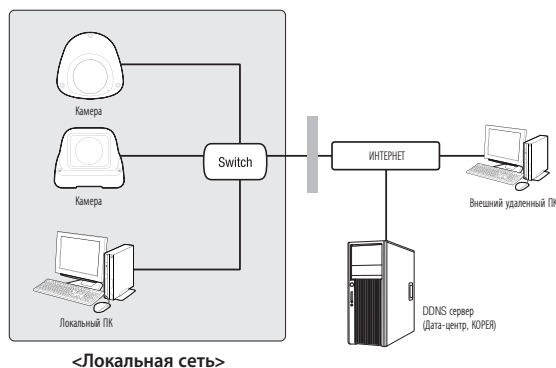
- **Звуковой вход (XNV-6012/6012M/6022R/6022RM)** : Выбираемый (микрофон/линейный вход/встроенный микрофон), поддерживаемое напряжение: 2,5 В постоянного тока (4 мА), входное сопротивление: 2 кОм
- **Звуковой вход (XNV-6013M)** : Выбираемый (микрофон/линейный вход), поддерживаемое напряжение: 2,5 В постоянного 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

Можно выставить сетевые настройки согласно сетевой конфигурации.

ПОДКЛЮЧЕНИЕ КАМЕРЫ НАПРЯМУЮ К ЛОКАЛЬНОЙ СЕТИ

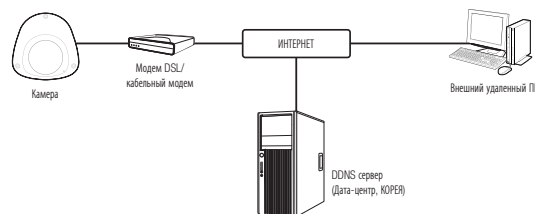
Подключение к камере через локальный ПК в локальной сети

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



- Удаленный ПК во внешней сети или в Интернете не может подключиться к камере, установленной в интранет, если не задана правильная переадресация портов или установлен фаервол. В этом случае обратитесь к системному администратору для устранения проблемы.
 - В Device Manager для установки IP-адреса, маски подсети, шлюза, порта HTTP, порта VNP и типа IP можно использовать исходный пароль «4321». Для лучшей защиты после изменения сетевого интерфейса войдите в web viewer и поменяйте пароль.
 - Согласно заводским настройкам по умолчанию, IP-адрес назначается сервером DHCP автоматически. Если сервер DHCP отсутствует, будет задан следующий IP-адрес: 192.168.1.100. Чтобы изменить IP-адрес, нужно использовать Device Manager. Для получения дополнительной информации об использовании Device Manager см. раздел «Использование Device Manager».
- (Стр. 19)

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

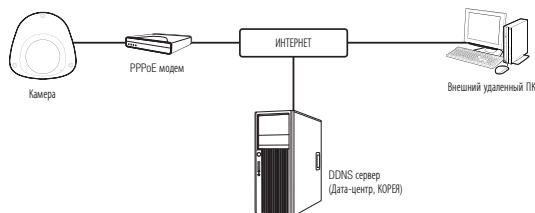


1. Подсоедините напрямую ПК пользователя с сетевой камерой.
2. Запустите Device Manager и измените IP-адрес камеры, чтобы можно было для подключения к Интернету использовать веб-браузер вашего компьютера.
3. Установите подключение к интерактивной программе просмотра в веб-браузере.
4. Перейдите на страницу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



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

ПОДКЛЮЧЕНИЕ КАМЕРЫ НАПРЯМУЮ К МОДЕМУ PPPoE

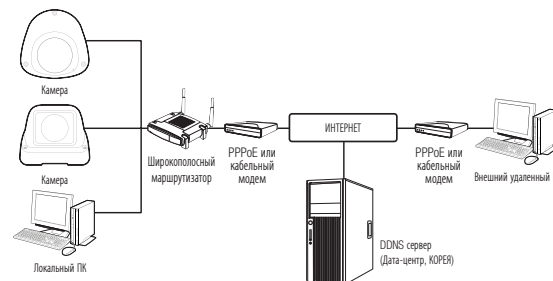


1. Подсоедините напрямую ПК пользователя с сетевой камерой.
2. Запустите Device Manager и измените IP-адрес камеры, чтобы можно было для подключения к Интернету использовать веб-браузер вашего компьютера.
3. Установите подключение к интерактивной программе просмотра в веб-браузере.
4. Перейдите на страницу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

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

ПОДКЛЮЧЕНИЕ КАМЕРЫ К ШИРОКОПОЛОСНЫЙ МАРШРУТИЗАТОР ЧЕРЕЗ PPPoE/КАБЕЛЬНЫЙ МОДЕМ

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



Настройка сетевых параметров локального ПК, подключенного к Широкополосный маршрутизатор

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

- Выберите : **<Network>** → **<Properties>** → **<Local Area Connection>** → **<General>** → **<Properties>** → **<Internet Protocol (TCP/IP)>** → **<Properties>** → **<Obtain an IP address automatically>** или **<Use the following IP address>**.
- Следуйте данным инструкциям, если было выбрано **<Use the following IP address>**:
 - пр1) Если адрес (LAN IP) Широкополосный маршрутизатор 192.168.1.1
IP-адрес : 192.168.1.100
Маска подсети : 255.255.255.0
Основной шлюз : 192.168.1.1
 - пр2) Если адрес (LAN IP) Широкополосный маршрутизатор 192.168.0.1
IP-адрес : 192.168.0.100
Маска подсети : 255.255.255.0
Основной шлюз : 192.168.0.1
 - пр3) Если адрес (LAN IP) Широкополосный маршрутизатор 192.168.xxx.1
IP-адрес : 192.168.xxx.100
Маска подсети : 255.255.255.0
Основной шлюз : 192.168.xxx.1
- Чтобы узнать адрес Широкополосный маршрутизатор, обратитесь к документации изделия.
- Дополнительную информацию о переадресации портов на широкополосном маршрутизаторе см. в разделе **"Настройка Переадресации Диапазона Портов (Распределение Портов)"**. (Стр. 21)

ИСПОЛЬЗОВАНИЕ DEVICE MANAGER



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

АВТОМАТИЧЕСКИЙ ПОИСК КАМЕРЫ

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

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

НАСТРОЙКА IP-АДРЕСА

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

Настройка статического IP

Вручную введите IP-адрес и информацию о порте.

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

В случае отсутствия Широкополосный маршрутизатор

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

- HTTP Port : Используется для получения доступа к камере через веб-обозреватель. Значение по умолчанию - 80.
- VNP Port : используется для управления передачей видеосигнала. Значение по умолчанию - 4520.
- RTSP Port: Порт, который управляет потоковой передачей в реальном времени. По умолчанию установлено значение 554.

В случае использования Широкополосный маршрутизатор

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



- Параметры могут различаться в зависимости от модели Широкополосный маршрутизатор. Для получения дополнительных сведений см. руководство пользователя соответствующего маршрутизатора.
- Дополнительную информацию о переадресации портов на широкополосном маршрутизаторе см. в разделе **"Настройка Переадресации Диапазона Портов (Распределение Портов)"**. (Стр. 21)

Если к Широкополосный маршрутизатор подключено несколько камер

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

пр)

Категория	Камера №1	Камера №2
Настройки, связанные с IP	IP Address	192.168.1.100
	Subnet Mask	255.255.255.0
	Gateway	192.168.1.1
Настройки, связанные с портами	Порт HTTP	8080
	Порт VNP	4521
	Порт RTSP	555



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

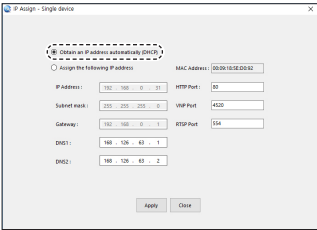
5. Нажмите кнопку **[Применить]**.
6. Если появится сообщение об успешной настройке, нажмите **[OK]**.

Настройка динамического IP-адреса

Получите IP-адрес от DHCP

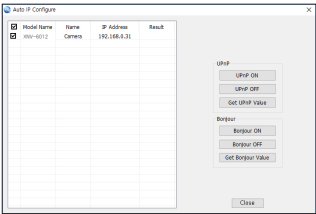
- Примеры динамического IP-окружения
 - Сервер DHCP назначает IP-адрес Широкополосный маршрутизатор с подключенными камерами.
 - Прямое подключение камеры к модему с помощью протоколов DHCP
 - Внутренний сервер DHCP назначает IP-адреса по локальной сети.

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



АВТОМАТИЧЕСКАЯ НАСТРОЙКА IP

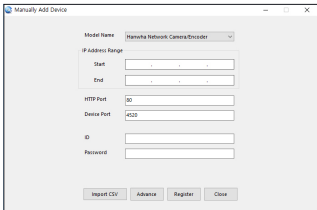
1. Выберите из списка камеру, для которой необходимо автоматически настроить параметры IP.
2. На главной странице Device Manager нажмите < + >.
 - Появится меню настроек оборудования.
3. Выберите в меню <Auto IP Configure (Автоматическая настройка IP)>.
4. Нажмите кнопку [Close (Закрыть)].



РЕГИСТРАЦИЯ КАМЕРЫ ВРУЧНУЮ

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

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

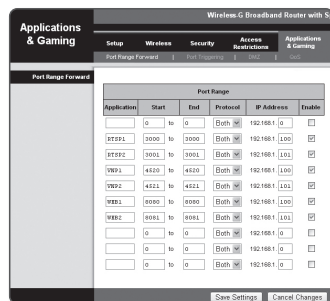


НАСТРОЙКА ПЕРЕАДРЕСАЦИИ ДИАПАЗОНА ПОРТОВ (РАСПРЕДЕЛЕНИЕ ПОРТОВ)

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

Переадресации диапазона портов вручную

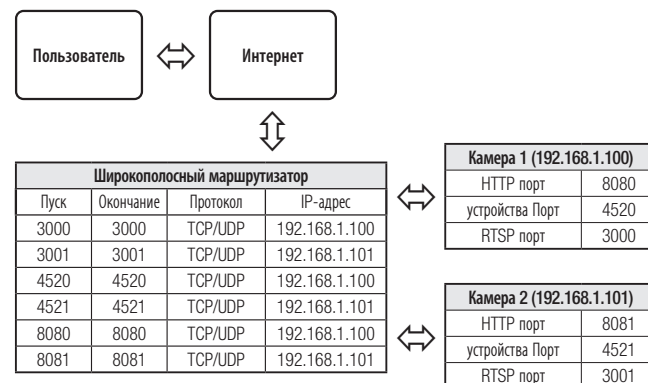
1. В меню настроек Широкополосный маршрутизатор выберите **<Applications & Gaming>** - **<Port Range Forward>**.
Сведения о настройке переадресации диапазона портов для Широкополосный маршрутизатор стороннего производителя см. в его руководстве пользователя.
2. Выберите **<TCP>** и **<UDP Port>** для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



Настройка переадресации 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:



- 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.

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

ПОДКЛЮЧЕНИЕ К КАМЕРЕ С ЛОКАЛЬНОГО КОМПЬЮТЕРА ОБЩЕГО ДОСТУПА

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



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

ПОДКЛЮЧЕНИЕ К КАМЕРЕ С УДАЛЕННОГО КОМПЬЮТЕРА ЧЕРЕЗ ИНТЕРНЕТ

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

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

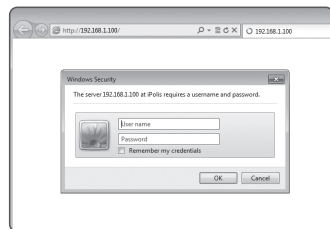


- Чтобы использовать DDNS, зарегистрируйтесь на домашней странице DDNS (<http://ddns.hanwha-security.com>) и зарегистрируйте продукт через меню **[Мой DDNS]> [Зарегистрировать продукт]**.

ПОДКЛЮЧЕНИЕ К КАМЕРЕ

Обычный порядок действий

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



Номер порта HTTP отличен от 80

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

Использование URL-адреса

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

! ■ Сетевое подключение выключено только в среде LAN.

Подключение через UPnP

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

Соединение через службу Bonjour

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

Просмотр DDNS-адреса

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

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

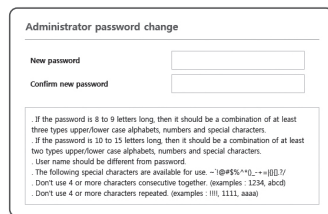
Чтобы зарегистрировать устройство на сервере <DDNS>, посетите веб-сайт <http://ddns.hanwha-security.com>. Сначала зарегистрируйте камеру, а затем задайте <Сеть> - <DDNS> для <DDNS> в программе Web Viewer, а также укажите <Код продукта>, который использовался для регистрации DDNS.

УСТАНОВКА ПАРОЛЯ

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

Когда откроется окно **"Смена пароля"**, введите новый пароль.

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

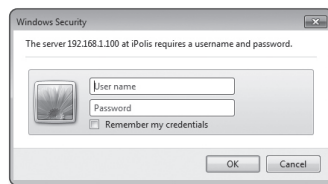


ВХОД

При каждом доступе к камере будет появляться окно входа.

Укажите идентификатор пользователя и пароль для доступа к камере.

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



- ❗ При доступе к камере через модуль Web viewer уделите внимание безопасности и проверьте, зашифрованы ли данные, содержащие изображение.
- 🚩 Если установить флажок **"Remember my credentials"** во время ввода данных, то в следующий раз и далее вход в систему будет выполняться автоматически без запроса данных.
- Лучшее качество видео обеспечивается при размере экрана 100%. При уменьшении экрана изображение может быть обрезано по краям.

СПЕЦИФИКАЦИИ ПОДКЛЮЧАЕМЫХ ПРОГРАММНЫХ МОДУЛЕЙ ДЛЯ ВСЕХ БРАУЗЕРОВ

Имеющийся Web viewer с подключаемым программным модулем и новый веб-просмотр без встраиваются программного модуля встраиваются совместно.

Это позволяет использовать Web viewer в среде более новых браузеров, таких как Chrome, EDGE и FireFox (только 64-битная Windows), которые не поддерживают подключаемые программные модули.

Для браузеров, допускающих установку подключаемого программного модуля, таких как IE и Safari, рекомендуется установка этого модуля.

В зависимости от программной среды браузера могут наблюдаться следующие отличия.

- **Браузеры Chrome, FireFox(который поддерживается только Windows 64bit), EDGE** : Хотя они не поддерживают подключаемые программные модули, можно использовать Web viewer, так как установлен web viewer, не использующий подключаемый программный модуль.

- ❗ Поскольку бесплатный подключаемый программный модуль веб-просмотра имеет более низкие характеристики, чем подключаемый программный модуль веб-просмотра, имеется ограничение на наблюдение под профилями с высоким качеством и воспроизведение сохраненных видеоданных.

Для наблюдения под профилями с высоким качеством и воспроизведения сохраненных видео используйте либо подключаемый программный модуль веб-просмотра, либо программу SmartViewer.

- Условия создания веб-средства просмотра, работающего без подключаемого модуля: Выбранный профиль по своим характеристикам превышает MJPEG Full HD 10 кадр/с H.264 (Chrome: поддерживается полноэкранное разрешение / Edge, Firefox, Safari: FullHD 30 кадр/с или выше) H.265 FullHD 10 кадр/с 2 Мбит/с или выше

- Условия воспроизведения без подключаемого модуля: MJPEG/H.264 полноэкранное разрешение, H.265 HD или ниже

- Функция бесплатного подключаемого программного модуля оптимизирована для браузера Chrome.

- Поддерживается адаптивная потоковая передача

- Это функция, которая обеспечивает автоматическое понижение свойств профиля, если задержка больше 5 секунд. Она служит для предотвращения таких явлений, как повышенное время ожидания и отсутствие отклика от браузера при воспроизведении видео в системе с аппаратными характеристиками ниже рекомендуемых.

Профиль видео понижается в следующем порядке: 1920X1080 (20 кадр/с) -> 1280X720 (20 кадр/с) -> 640X480 (20 кадр/с).

- **Браузер IE, Safari** : Можно использовать Web viewer, даже если имеющийся подключаемый программный модуль Web viewer не установлен.

- ❗ Для бесперебойного наблюдения/воспроизведения сохраненного видео необходимо установить подключаемый программный модуль.

УСТАНОВКА ДОПОЛНИТЕЛЬНОГО МОДУЛЯ WebViewer

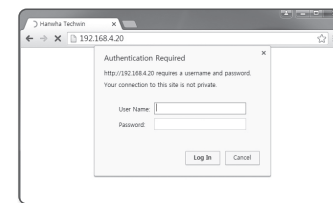
Для того чтобы получить доступ к подключаемому программному модулю веб-просмотра и воспроизводить прямое (H.264/H.265) или записанное видео, будет выведено сообщение с предложением установить модуль. Для надлежащего применения функции необходимо установить подключаемый программный модуль веб-просмотра.

1. При самом первом обращении к странице монитора отображается страница установки. Кликните на **[Plugin]**, чтобы начать установку.
 - Если статус загрузки установочного файла плагина приостанавливается на 99% в браузере Internet Explorer, попробуйте еще раз после выбора "Отключить фильтр SmartScreen" в "Инструменты → фильтр SmartScreen".
 2. Кликните **[Run]** в окне сообщений.
 3. Кликните **[Yes]** когда в окне-примечании появится сообщение о том, что все окна браузеров будут закрыты.
 - Шаги 4 и 5 будут пропущены, если плагин Web Viewer не установлен.
 4. Если установлена старая версия плагина Web Viewer, отобразится сообщение в окне-примечании, что старая версия будет удалена. Кликните **[Yes]** когда появится окно-примечание.
 5. Кликните **[OK]**.
Старая версия плагина Web Viewer удалена.
 6. Кликните **[Install]**, чтобы начать установку плагина Web Viewer.
 7. Кликните **[Finish]**.
Установка плагина Web Viewer завершена.
- В веб-браузере после установки подключаемого модуля webviewer проверьте, установилась ли кнопка webviewer_activexplugin_ lib.control из меню "Инструменты → Управление дополнительными функциями" в состояние "Активировано". Если нет, и если имеется неустранимая проблема, выберите "Инструменты → Опции Интернет → Общие" и удалите все записи поиска. Если проблема не устраняется, зарегистрируйте IP-адрес или домен своей камеры в "Инструменты → Опции Интернета → Безопасность → Доверенные сайты".

ИСПОЛЬЗОВАНИЕ ПОДКЛЮЧАЕМОГО ПРОГРАММНОГО МОДУЛЯ ВЕБ-ПРОСМОТРА

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

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



Настройка камеры

1. Щелкните по значку **[Настройка (⚙)]**.
2. Откроется окно настроек.
3. Можно управлять по сети настройками базовой информации о камере, PTZ, видео и аудио, сети, событий, анализа, системы и открытой платформы.
4. Выберите **<Справка (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 времени мониторинга видео в экране просмотра.	• При любом изменении настроек камеры или сети происходит разрыв соединения с наблюдательными терминалами. • Проверьте все сетевые соединения. • Может произойти разрыв соединения при плохой связи, если камера подключена к PPPoE.
Подключенная к сети камера не обнаружена в программе Device Manager.	• Отключите фаервол на своем ПК и заново запустите поиск камеру.
Картинки перекрываются.	• Убедитесь в том, что две или более камеры не транслируют данные на один и тот же multicast-адрес. Картинки могут перекрываться, если один адрес используется несколькими камерами.
Нет картинки.	• Если задан метод передачи на группу адресов, убедитесь, что в локальной сети, к которой подключена камера, есть роутер, поддерживающий технологию multicast.

ПРОБЛЕМА	РЕШЕНИЕ
Голос не записывается, даже если заданы настройки входа аудио.	• Установите флажок <Аудиовход> в пункте <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>.
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. Ех) Начальное значение маски подсети для NAS и камеры 255.255.255.0. Если IP-адрес 192.168.20.32, то IP-адрес NAS должен быть в диапазоне 192.168.20.1~192.168.20.255. • Проверьте, не осуществлялась ли попытка получения доступа под другим пользователем без форматирования основной папки (сохраненной или используемой). • Убедитесь в том, что используется рекомендуемое оборудование NAS.

OPEN SOURCE ANNOUNCEMENT

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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	

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Component Name	License	URL
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neon-0.29.6	LGPL 2.0	http://www.webdav.org/neon/

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16. "Patch for Modification" means a difference, program, system, or the like in order to create the Modified Source Code from the Source Code or the Binary Code thereof.

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3. to distribute a copy of a work to the general public or a large number of specific persons.

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1. The copyrights of the Source Code shall be owned by Ken Sakamura.

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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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4. The Distributor of Modification shall determine the name of the Modified Source Code subject to the rules separately established by T-Engine Forum and publish an appropriate notice as required by the rules on the Patch for Modification and the Modified Source Code.
5. The Distributor of Modification may distribute the Modified Source Code to a third party, whether with or without payment, provided that the Distributor of Modification shall take the necessary measures to prohibit the third party from making the re-Distribution of the Modified Source Code.
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

Source Code on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware:

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.
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 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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1. T-Engine Forum and the copyright holder of the Source Code warrant that the Source Code does not infringe third party's copyrights. Provided, however, that T-Engine Forum and the copyright holder of the Source Code make no warranty as to the Hardware-dependent Part and/or Compiler- dependent Part set forth in Article 6.2 in the Ported Source Code by any third party.
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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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