

WISENET

СЕТЕВОЙ ВИДЕОРЕГИСТРАТОР

Спецификации устройства

XRN-2010/2011/2010A/2011A
XRN-3010/3010A
XRN-1610/1610S/1610A/1610SA



Сетевой Видеорегистратор

Спецификации устройства

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❖ Конструкция и характеристики устройства могут быть изменены без предварительного уведомления.
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❖ Первоначальный идентификатор администратора - "admin", а пароль следует задать при первом входе в систему.
Для того чтобы надежно защитить личную информацию и предотвратить ущерб от ее кражи, меняйте пароль каждые три месяца.
Имейте в виду, что ответственность за безопасность и какие-либо проблемы, вызванные ненадлежащим обращением с паролем, несет пользователь.

ВАЖНЫЕ ИНСТРУКЦИИ ПО ТЕХНИКЕ БЕЗОПАСНОСТИ

Перед использованием изделия внимательно прочтите Инструкцию по эксплуатации. Выполняйте все перечисленные ниже инструкции по технике безопасности. Держите Инструкцию под рукой для обращения к ней в последующем.

- 1) Прочтите данные инструкции.
- 2) Сохраните данные инструкции.
- 3) Принимайте во внимание все предупреждения.
- 4) Следуйте всем инструкциям.
- 5) Не пользуйтесь данным изделием 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 ножевых контакта и третий заземляющий контакт. Широкое лезвие третьего заземляющего контакта предусмотрено для вашей безопасности. Если поставляемая вместе с аппаратом вилка не подходит для вашей розетки, попросите квалифицированного электрика заменить старую розетку.
- 10) Чтобы защитить шнур питания от повреждений, проложите его так, чтобы не ходить по нему. Защитите шнур питания в местах соединения со штепсельной вилкой, электрической розеткой и в том месте, где он выходит из изделия.
- 11) Пользуйтесь только теми приспособлениями/принадлежностями, которые рекомендованы изготовителем.
- 12) Используйте изделие только с такой тележкой, стойкой, штативом, кронштейном или столом, которые рекомендованы изготовителем, или которые продаются вместе с изделием. Соблюдайте осторожность во время перемещения изделия, установленного на тележке, чтобы избежать травм в результате опрокидывания изделия /тележки.
- 13) Отсоединяйте изделие от сети во время грозы или если вы не будете пользоваться им длительное время.
- 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.



ПЕРЕД НАЧАЛОМ РАБОТЫ

В данном руководстве содержится информация об эксплуатации устройства, описание всех его компонентов и их функций, а также информация о меню и сетевых настройках. Необходимо помнить следующее:

- Компания Hanwha Techwin обладает авторским правом на данное руководство пользователя.
- Запрещается копировать данное руководство пользователя без письменного разрешения компании Hanwha Techwin.
- Мы не несем ответственности за повреждения изделия, возникшие вследствие его неправильного использования, или несоблюдения инструкций, представленных в руководстве пользователя.
- Если вы хотите открыть крышку изделия для обеспечения доступа к его внутренним частям, пожалуйста, проконсультируйтесь со специалистом, работающим в торговом предприятии, продавшем вам данное изделие.
- Перед установкой дополнительного жесткого диска или внешнего устройства хранения (памяти USB, жесткого диска USB и т.д.) убедитесь в его совместимости с данным устройством. Для получения списка совместимых устройств обращайтесь к продавцу.

Предупреждение

Батарея

Неправильная замена батареи в изделии может привести к взрыву. Поэтому необходимо использовать батарею того же типа, как установленная в изделие при его поставке.

Ниже представлены технические характеристики батареи, используемой в изделии.

- Номинальное напряжение: 3 В
- Номинальная емкость: 210 мАч
- Номинальный непрерывный ток нагрузки: 0,4 мА
- Рабочая температура: -20°C ~ +60°C (-4°F ~ +140°F)

Внимание

- Подключите кабель питания к заземленной розетке.
- Сетевая вилка позволяет отключить питание, поэтому она должна все время находиться в легкодоступном месте.
- Не подвергайте батареи чрезмерному нагреванию под воздействием солнечных лучей, огня и т.д.
- При установке батареи неправильного типа существует опасность взрыва. Утилизация использованных батарей должна выполняться в соответствии с инструкциями.
- Когда достигается конец срока службы HDD, хранящиеся видеоданные могут быть повреждены, и их восстановление невозможно.
- Светодиод состояния HDD на передней стенке системы постоянно мигает, указывая на нормальное подключение системы к HDD. Регулярно контролируйте светодиод состояния HDD, постоянно ли он мигает. Запись может быть невозможна при отказе HDD. Периодически проверяйте статус записи и регулярность резервного копирования.

Завершение работы системы

Выключение питания цифрового видеорегистратора во время его работы или выполнение неразрешенных операций может привести к повреждению жесткого диска или самого изделия. Для безопасного отключения выберите из меню пункт Выход и нажмите <OK> на всплывающем экране, затем отключите кабель питания.

Чтобы предотвратить повреждения, вызванные неожиданным нарушением энергоснабжения, рекомендуется установить источник бесперебойного питания (ИБП). (с вопросами по ИБП обращайтесь в магазин, торгующий ИБП).



- При неправильном отключении питания перезапуск может занять больше времени для восстановления данных с жесткого диска и нормальной работы.

Рабочая температура

Работа этого изделия гарантируется в диапазон от 0°C ~ 40°C (32°F ~ 104°F).
Это изделие может не работать надлежащим образом при его включении сразу же после продолжительного хранения при температуре ниже гарантируемой.
При использовании изделия после продолжительного хранения при низкой температуре, дайте изделию постоять некоторое время при комнатной температуре перед тем, как включать его.
Встроенный в это изделие жесткий диск имеет гарантированный диапазон рабочих температур от 5°C ~ 55°C (41°F ~ 131°F).
Аналогичным образом, он может не работать при температуре ниже гарантируемой.

Порт Ethernet

Данное оборудование предназначено для использования в помещении, и все провода для связи должны находиться внутри здания.

Меры предосторожности

Первоначальный идентификатор администратора - “**admin**”, а пароль следует задать при первом входе в систему.
Для того чтобы надежно защитить личную информацию и предотвратить ущерб от ее кражи, меняйте пароль каждые три месяца.
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Функции устройств NVR

Функция	Устройства
Вентилятор	XRN-3010, XRN-3010A, XRN-2010, XRN-2010A, XRN-2011, XRN-2011A, XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
RAID	XRN-2011, XRN-2011A
iSCSI	XRN-2010, XRN-2010A, XRN-2011, XRN-2011A, XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
PoE	XRN-1610S,XRN-1610SA
P2P	XRN-3010A, XRN-2010A, XRN-2011A, XRN-1610A, XRN-1610SA
Пульт ДУ	XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
Джойстик	XRN-3010, XRN-3010A, XRN-2010, XRN-2010A, XRN-2011, XRN-2011A, XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
Расширенный монитор	XRN-3010, XRN-3010A, XRN-2010, XRN-2010A, XRN-2011, XRN-2011A, XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
Failover (аварийное переключение)	XRN-3010, XRN-3010A, XRN-2010, XRN-2010A, XRN-2011, XRN-2011A
Распределенная запись	XRN-3010, XRN-3010A

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ФУНКЦИИ

Устройство выполняет запись видео и звука с сетевых камер на жесткий диск и обеспечивает возможность воспроизведения с жесткого диска. Оно также обеспечивает среду для выполнения удаленного мониторинга видео и аудио по сети с использованием удаленного компьютера.

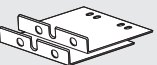
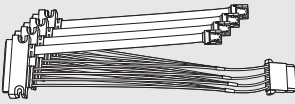
- Простой и понятный интерфейс пользователя
- Поддерживается диапазон разрешений камеры 4K. (3840X2160, 4096X2160, 4000X3000)
- Выводится изображение с высоким разрешением 4В по спецификации HDMI.
- Запись и воспроизведение видео
- Запись и воспроизведение аудио
- Поддержка протоколов стандарта ONVIF Profile S и протоколов RTP/RTSP
- Отображение рабочего состояния жесткого диска с помощью функции HDD SMART
- Перезапись жесткого диска
- Резервное копирование с помощью протоколов USB 2.0, 3.0 и внешнего жесткого диска
- Одновременное воспроизведение 16 каналов
- Различные режимы поиска (Время, событие, Умный, текст, архивация, ARB.)
- Различные режимы записи (обычная запись, запись события и запланированная запись)
- Порты входа/выхода сигнала тревоги
- Удаленный мониторинг через Windows Network Viewer
- Мониторинг в реальном времени сетевой камеры
- Функция мастера установки (простая и быстрая настройка)
- Благодаря поддержке P2P, поддерживается функция удаленного наблюдения на смартфоне. (XRN-2010A/2011A/3010A/1610A/1610SA)

Комплект поставки

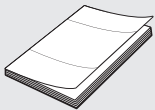
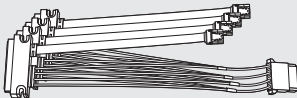
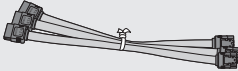
Распакуйте устройство и поместите его на плоскую поверхность или туда, где оно будет установлено. Проверьте, входят ли в комплект поставки, кроме основного устройства, следующие компоненты.

- Внешний вид компонентов может отличаться от изображенного.
- Типы и количество принадлежностей могут быть другими, в зависимости от региона продажи.
- В некоторые страны поставляется без установленного HDD. Количество винтов для крепления HDD, кабелей питания SATA и кабелей питания/данных SATA для разных моделей отличается.

XRN-2010/2011/2010A/2011A/3010/3010A

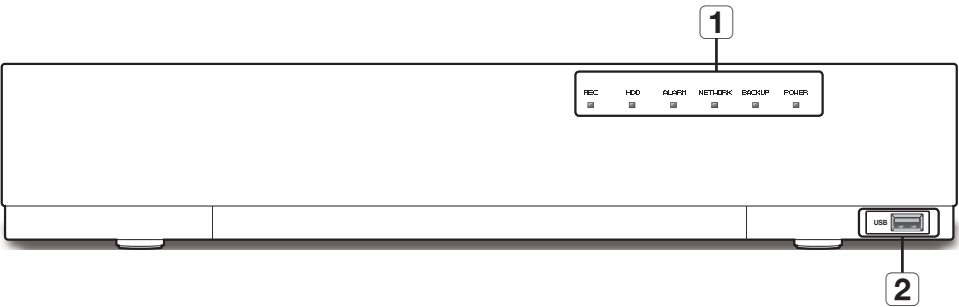
		
NVR	Мышь	Кабель Питания
		
Краткое руководство пользователя	Клеммный блок	Стойка с Держателями
		
Крепежный винт кронштейна	HDD SATA/Кабель Питания (Отсутствует у XRN-2011/2011A)	Винт крепления жесткого диска (Отсутствует у XRN-2011/2011A)

XRN-1610/1610S/1610A/1610SA

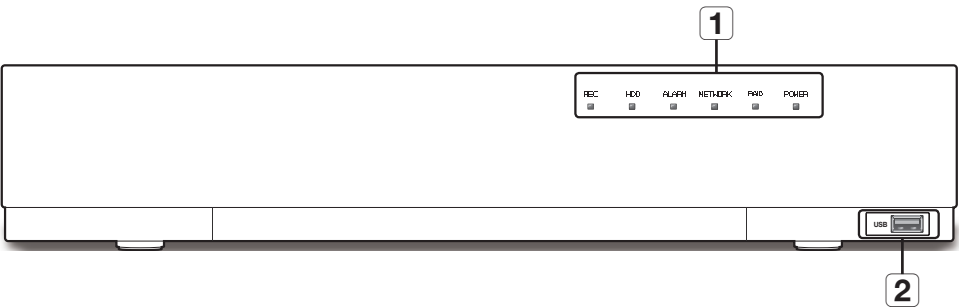
		
NVR	Мышь	
		
Кабель Питания	Клеммный блок	
		
Краткое руководство пользователя	Стойка с Держателями	Винт крепления жесткого диска
		
Крепежный винт кронштейна	Câble d'alimentation/HDD SATA (XRN-1610/1610A)	Кабель питания SATA (XRN-1610S/1610SA)
		
Кабель данных SATA (XRN-1610S/1610SA)		

НАЗВАНИЯ И ФУНКЦИИ КОМПОНЕНТОВ (ВИД СПЕРЕДИ)

XRN-2010/2010A/3010/3010A/1610/1610S/1610A/1610SA



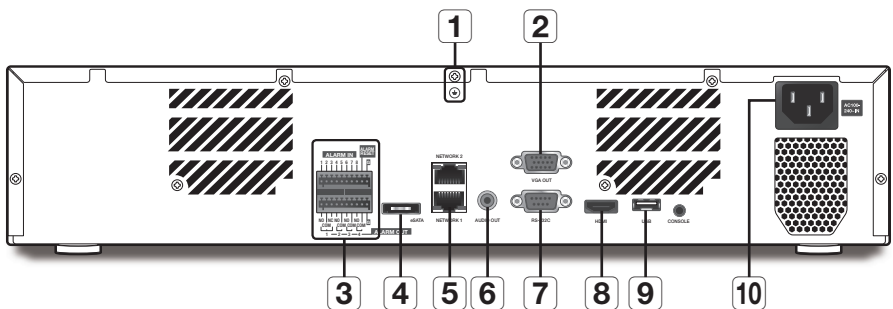
XRN-2011/2011A



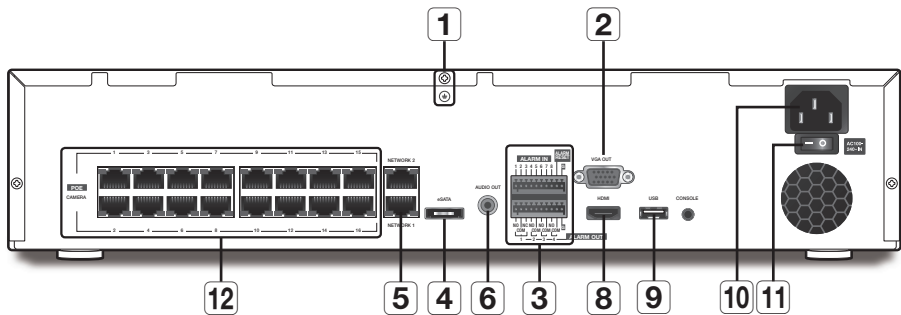
Названия компонентов		Функции
1	Светодиодный индикатор	REC : Загорается во время записи.
		HDD : Обычный доступ к жесткому диску. Индикатор загорается при доступе к жесткому диску.
		ALARM : Загорается в случае какого-либо события.
		NETWORK : Указывает на сетевое соединение и отображает состояние передачи данных.
		BACKUP : Остается включенным, когда выполняется архивация. (XRN-2010/2010A/3010/3010A/1610/1610S/1610A/1610SA)
		RAID : Остается включенным, когда используется RAID. Мигает, если включена архивация при использовании RAID. Мигает только когда выполняется архивация и не используется RAID. (XRN-2011/2011A)
		POWER : Показывает включенное/отключенное состояние.
2	USB	Используется для подключения устройств USB. (Поддерживается USB 2.0)

НАЗВАНИЯ И ФУНКЦИИ КОМПОНЕНТОВ (ВИД СЗАДИ)

XRN-2010/2011/2010A/2011A/3010/3010A/1610/1610A



XRN-1610S/1610SA



Названия компонентов		Функции
1	Соединение с землей	Клемма для подключения отдельного заземляющего провода. ■ Для обеспечения безопасного пользования устройством добавьте заземляющий провод.
2	VGA OUT	Выходной порт видеосигнала VGA.
3	ALARM	- ALARM IN : Входные порты сигналов тревоги. (1~8 CH) - ALARM RESET : Порт сброса сигнала. - ALARM OUT : Выходные порты сигналов. (1~4 CH)
4	eSATA	Соединитель для подключения внешнего устройства хранения.
5	NETWORK1	Порт, рекомендуемый для подключения камеры, по нему принимается изображение с камеры.
	NETWORK2	Порт, рекомендуемый для соединения с локальной сетью, web viewer или iSCSI.
6	AUDIO OUT	Выходной порт аудиосигнала (гнездо RCA).
7	RS-232C	Соединитель для кабеля последовательной связи (резерв).
8	HDMI	Порт для подключения HDMI.
9	USB	Используется для подключения устройств USB. (Поддерживается USB 3.0)
10	Питание	Блок соединителей для подключения питания.
11	Выключатель питания	Выключатель питания. (XRN-1610S/1610SA)
12	PoE (CAMERA)	Порт источника питания для подключения к камере. (XRN-1610S/1610SA)

■ [CONSOLE] предназначена для использования только при обслуживании.

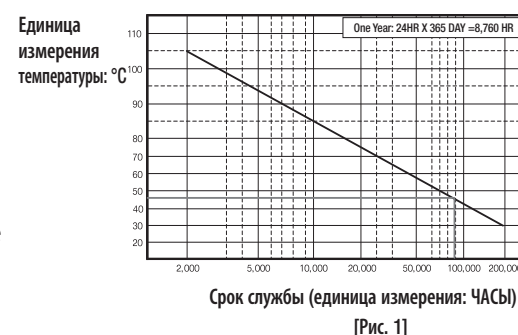
Перед использованием устройства убедитесь, что выполняются следующие рекомендации.

- Не используйте устройство вне помещения.
- Не допускайте попадания воды или любой другой жидкости на разъемы устройства.
- Не подвергайте систему чрезмерным сотрясениям или усилиям.
- Не тяните за вилку кабеля питания с чрезмерным усилием.
- Не разбирайте устройство самостоятельно.
- Не превышайте диапазон номинального входного/выходного напряжения.
- Используйте только сертифицированный кабель питания.
- Для устройства с заземлением на входе используйте вилку кабеля питания с заземлением.

ПРОВЕРКА УСЛОВИЙ ДЛЯ УСТАНОВКИ

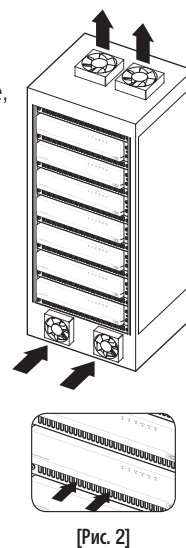
Данный сетевой видеорегистратор является отличным устройством обеспечения безопасности, он оснащен жестким диском большой емкости и другими важными компонентами.

Обратите внимание, что повышенная внутренняя температура устройства может стать причиной сбоя системы или сокращения срока службы устройства (см. рисунок справа). Перед установкой устройства соблюдайте приведенные далее инструкции.



При установке в стойку необходимо соблюдать следующие инструкции.

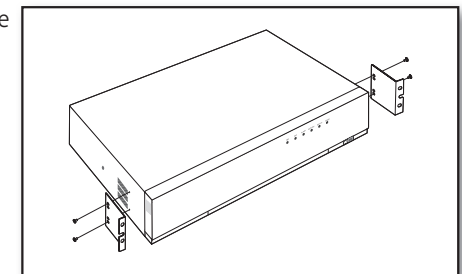
1. Убедитесь, что изнутри стойка не герметична.
2. Убедитесь, что воздух циркулирует через впускное/выпускное вентиляционное отверстие, как показано на рисунке.
3. При установке в стойку нескольких устройств, как показано на рисунке 2, обеспечьте достаточное пространство для вентиляции или установите вентиляционное отверстие.
4. Для обеспечения естественной циркуляции воздуха впускное отверстие должно находиться в нижней части стойки, а выпускное — в верхней.
5. Для обеспечения циркуляции воздуха через впускное и выпускное отверстия настоятельно рекомендуется использовать вентилятор. (Для задержки пыли или инородных частиц во впускном отверстии установите фильтр.)
6. Внутри стойки и вокруг нее необходимо поддерживать температуру в диапазоне 0°C ~ 40°C (32°F ~ 104°F), как показано на рис. 1.



УСТАНОВКА СТОЙКИ

Установите кронштейн стойки, как показано на рисунке, и затяните винты с обеих сторон.

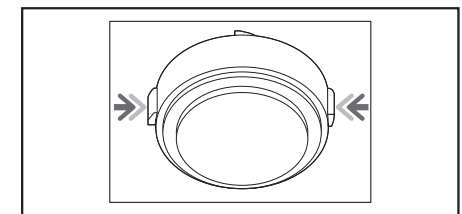
- Надежно затяните винты, чтобы они не ослабли под воздействием вибрации.



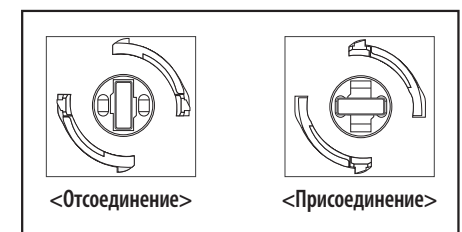
Меры предосторожности при установке в стойку

Чтобы установить в стойку несколько цифровых NVR, снимите с каждого из них НОЖКИ.

1. На днище цифрового NVR есть четыре НОЖКИ. Нажмите на выступы на концах каждой “НОЖКИ” и поверните ее против часовой стрелки.



2. Чтобы отсоединить “НОЖКИ” от корпуса, поверните ее до конца крепежного паза.



ДОПОЛНИТЕЛЬНЫЙ ЖЕСТКИЙ ДИСК

Обязательно выньте кабель питания из сетевой розетки для предотвращения возможного поражения электрическим током, получения травм или повреждения устройства.
Обратитесь к поставщику для получения дополнительной информации об установке жесткого диска.
Неправильная установка может стать причиной повреждения устройства.

- Поддерживаемое число жестких дисков: 8 Жестких дисков
- Обязательно выньте кабель питания из сетевой розетки перед установкой.



■ Меры предосторожности во избежание потери данных (уход за жестким диском)

Учтите данные меры во избежание повреждения данных жесткого диска.

Перед установкой дополнительного жесткого диска проверьте его на совместимость с используемым устройством.

Жесткий диск можно легко вывести из строя, поскольку он очень чувствителен к толчкам и ударам во время эксплуатации.

Не подвергайте жесткий диск ударам.

Наша компания не несет ответственности за какие-либо повреждения жесткого диска, причиной которых является неосторожное обращение пользователя с устройством или неправильное его использование.

■ Ситуации, которые могут привести к повреждению жесткого диска или записанных данных

Чтобы сократить риск потери данных, хранящихся на жестком диске, как можно чаще выполняйте резервное копирование этих данных.

При ударе или сотрясении жесткого диска во время его установки или извлечения возможно повреждение данных, которые были сохранены на нем.

В результате внезапного сбоя электропитания или выключения устройства во время работы жесткого диска возможно повреждение жесткого диска.

Жесткий диск или хранящиеся на нем данные могут быть повреждены из-за перемещения или сотрясения основного устройства во время его работы.

Меры предосторожности при установке жесткого диска

1. Не прилагайте к жесткому диску чрезмерные усилия.
2. При разборке устройства старайтесь сохранить винты или аксессуары.
 - Если винты или аксессуары не будут установлены надлежащим образом, это может привести к неисправности устройства или его неправильной работе.
3. Перед подключением жесткого диска проверьте его на совместимость с используемым устройством.
 - Список совместимых устройств можно получить у ближайшего дилера.

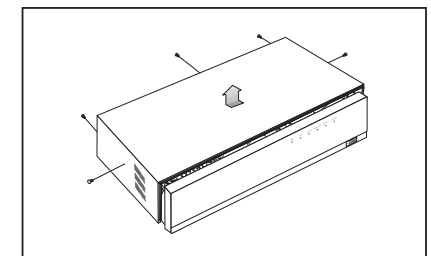
Установка жесткого диска



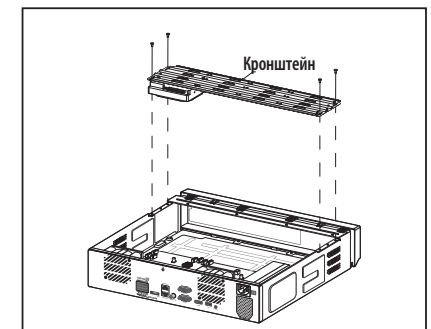
- Если к данному изделию в дополнение к первоначально установленным HDD добавляется новый или бывший в использовании HDD, перед началом использования его необходимо отформатировать в ручном режиме. Сведения о форматировании приведены в разделе «Уст-тво/формат» руководства по эксплуатации видеорегистратора (NVR) Wisenet.

Установка жесткого диска в модели XRN-2010/2010A/3010/3010A/1610/1610A/1610S/1610SA

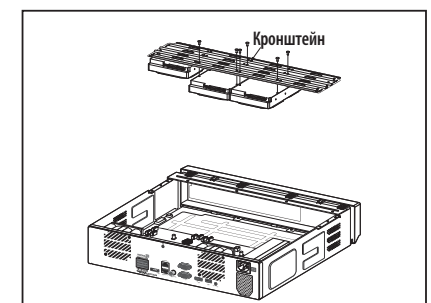
1. Сначала отверните винты с левой/правой и задней стороны, затем снимите крышку.



2. Отверните винты (4 шт.) с левой/правой стороны и снимите кронштейн.

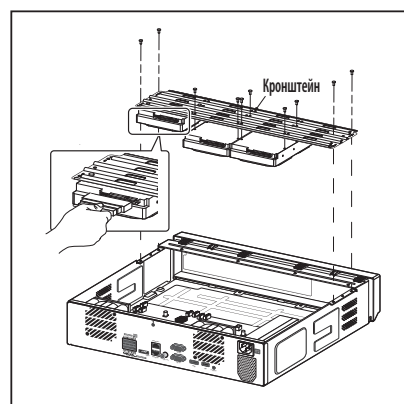


3. Установите HDD на кронштейн и закрепите его винтами.



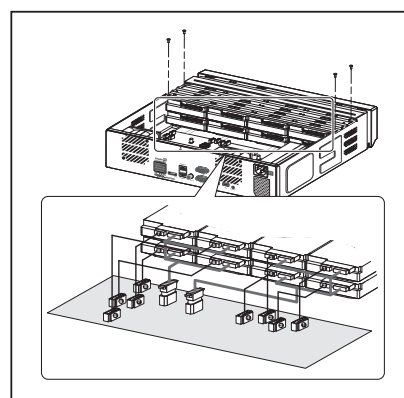
4. Подключайте кабели к HDD, ставя в соответствие номер кабеля SATA/питания с номером положения HDD на кронштейне.

- Номер расположения HDD на кронштейне см. на рисунке ниже.

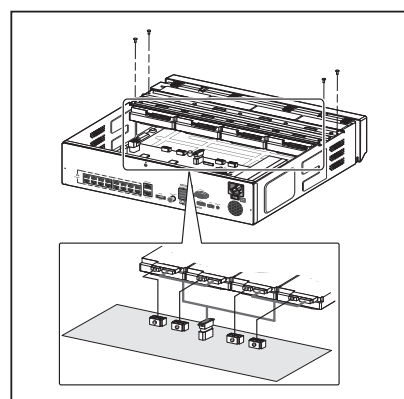


5. Установите кронштейн, на котором в сетевом видеорегистраторе будет монтироваться дополнительный HDD, закрепите его винтами и подключите кабели SATA/питания к соединителю с соответствующим номером на главной плате.

- Номера соединителей см. на рисунке ниже.

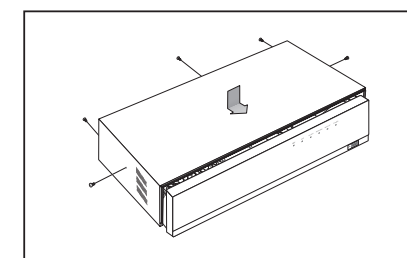


<XRN-2010/2010A/3010/3010A/1610/1610A>



<XRN-1610S/1610SA>

6. Убедитесь в отсутствии у изделия проблем с подключением к соединителям и с проводами, закройте крышку и закрепите ее винтами.

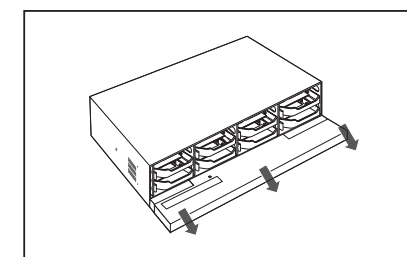


Установка жесткого диска в модели XRN-2011/2011A

1. Откройте переднюю крышку и найдите установочный кронштейн жесткого диска.



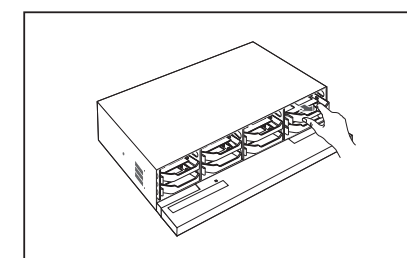
- Перед открытием передней крышки освободите соединитель USB для предотвращения повреждения порта USB.



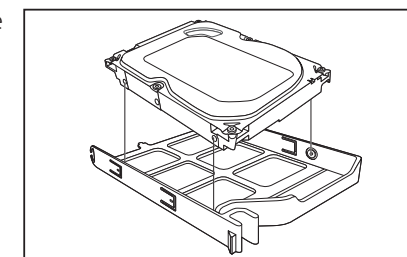
2. Нажмите на защелку справа и выньте кронштейн для жесткого диска.



- При извлечении кронштейна жесткого диска будьте осторожны, чтобы не поцарапать руки.



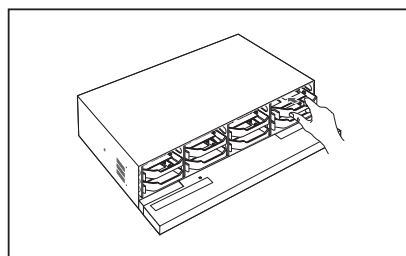
3. Выверните жесткий диск и вставьте его в предназначенное место кронштейна. Вставив одну сторону, слегка надавите и вставьте другую сторону.



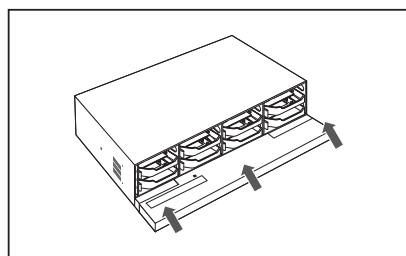
4. Выверните кронштейн с установленным жестким диском по защелке корпуса и нажмите кронштейн в направлении платы.



- Нажимайте на него до тех пор, пока не услышите звук щелчка защелкивания. Если жесткий диск не подсоединился полностью, это можно определить.



5. Нажмите переднюю крышку в направлении вверх и закройте ее.

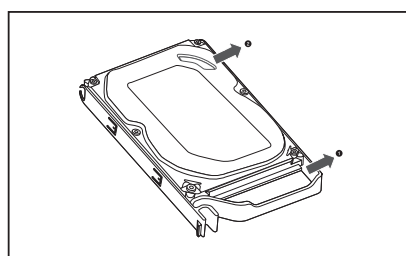


• Замена установленного жесткого диска

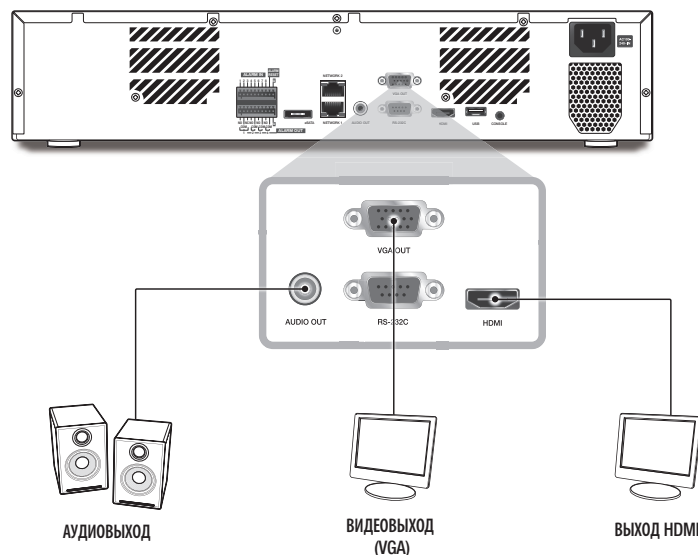
1. Широко откройте кронштейн в направлении стрелки и выньте держатель из жесткого диска.
2. Широко откройте кронштейн с другой стороны и выньте его из держателя.



- Процедура после замены жесткого диска та же, как описано в разделе "Установка жесткого диска".



ПОДКЛЮЧЕНИЕ К ВНЕШНЕМУ УСТРОЙСТВУ

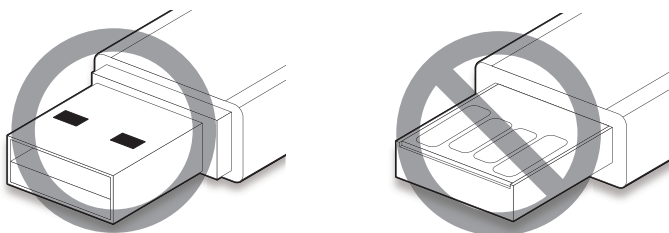


- ! Отличный от номинальной мощности или неподходящий источник питания может привести к повреждению системы. Прежде чем нажать кнопку ПИТАНИЕ убедитесь, что используется источник питания номинальной мощности.

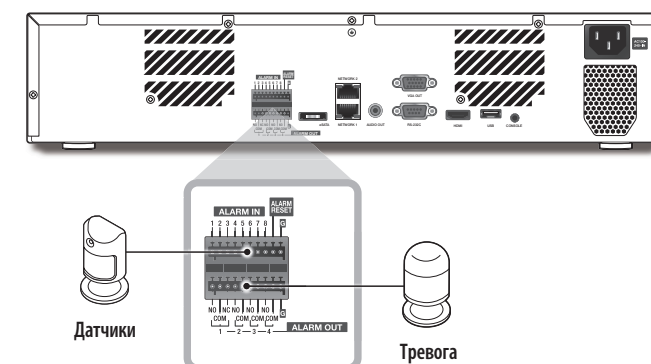
ПОДКЛЮЧЕНИЕ УСТРОЙСТВ USB

1. На передней стенке устройства имеется USB-порт.
2. К порту USB можно подключить жесткий диск USB, память USB или мышь.
3. Если к системе подключен жесткий диск USB, для его обнаружения и настройки следуйте инструкциям в разделе «**Меню > Устройство > Устр. хранения**» руководства по эксплуатации видеорегистратора (NVR) Wisenet.
4. Устройство поддерживает функцию "горячего" подключения, которая позволяет подключать и отключать устройства USB во время работы системы.

- ! Если устройство USB используется для резервного копирования, отформатируйте его на компьютере в системе FAT32, если до этого оно не было отформатировано на сетевом видеорегистраторе.
- Проверьте функционирование USB-устройства перед использованием потому что могут возникнуть проблемы с совместимостью некоторых USB-устройств.
 - Исключается гарантия работы кроме USB-устройств имеющих металлическое покрытие.
 - Могут возникнуть проблемы в передовании сигналов если поверхность разъема USB-устройства гладкая или повреждена.

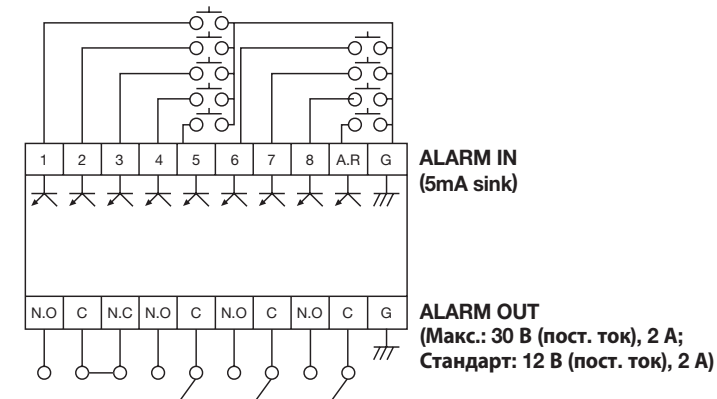


ПОДСОЕДИНЕНИЕ К ВХОДНЫМ/ВЫХОДНЫМ ПОРТАМ ДЛЯ СИГНАЛА ТРЕВОГИ



Входной/выходной порт для сигнала тревоги на задней панели представляет собой следующее.

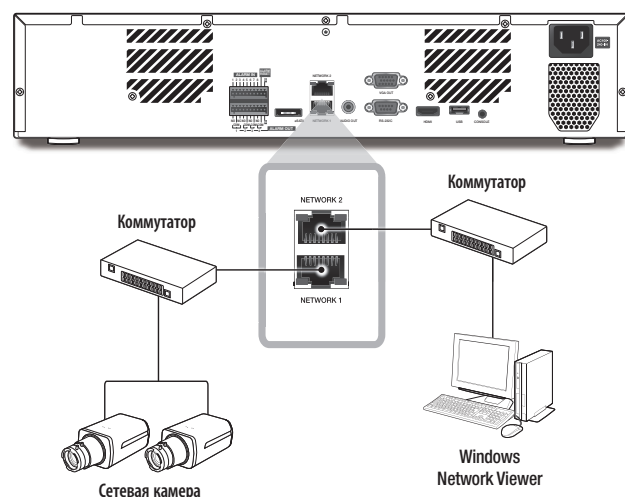
- ALARM IN 1 ~ 8: входной порт для сигнала
- ALARM RESET: при получении сигнала о сбросе система отменяет текущий входящий сигнал и возобновляет считывание.
- ALARM OUT 1 ~ 4: выходной порт сигнала



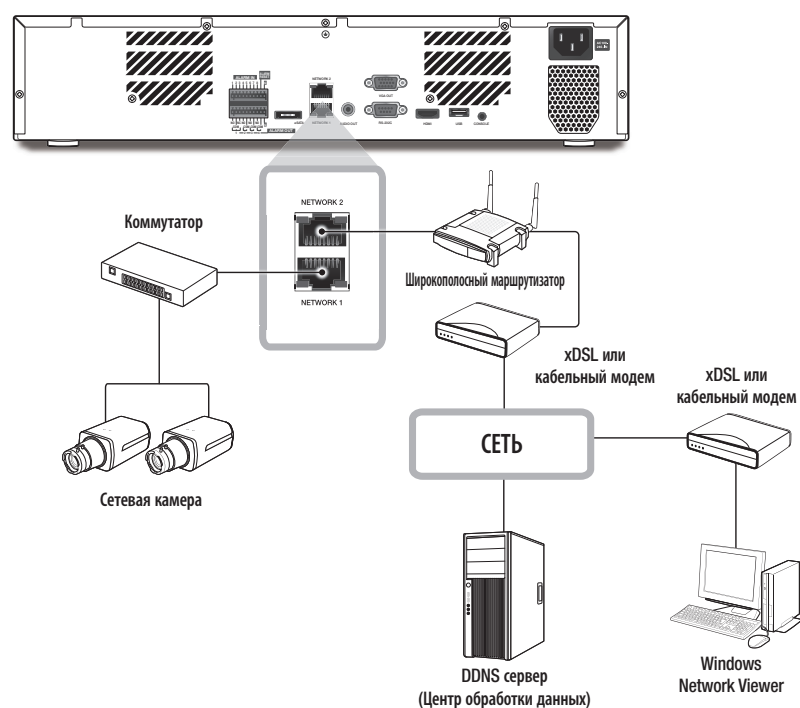
ПОДКЛЮЧЕНИЕ СЕТИ

- Дополнительная информация о сетевом подключении приведена в разделе «Конфигурация сети» руководства по эксплуатации видеорегистратора (NVR) Wisenet.

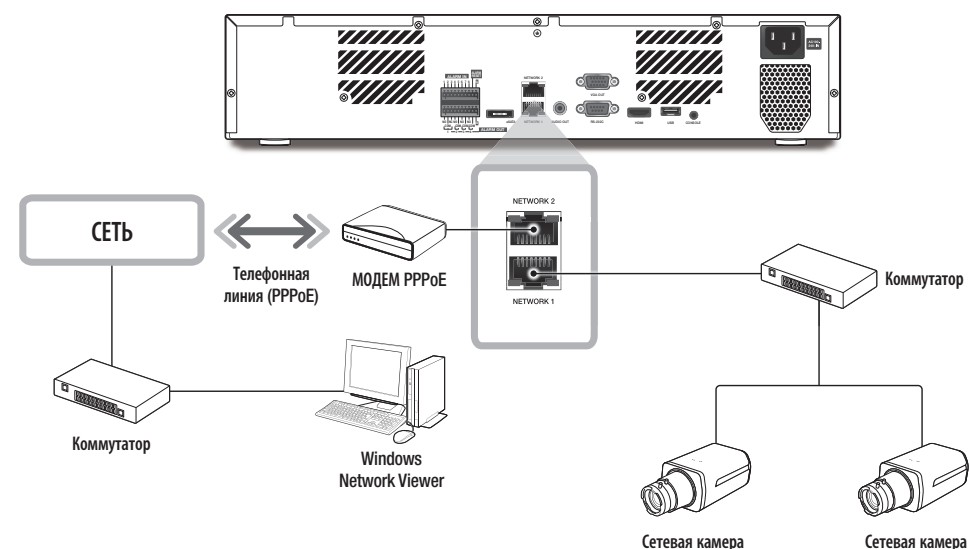
Сетевое подключение через Ethernet (10/100/1000BaseT)



Сетевое подключение через маршрутизатор

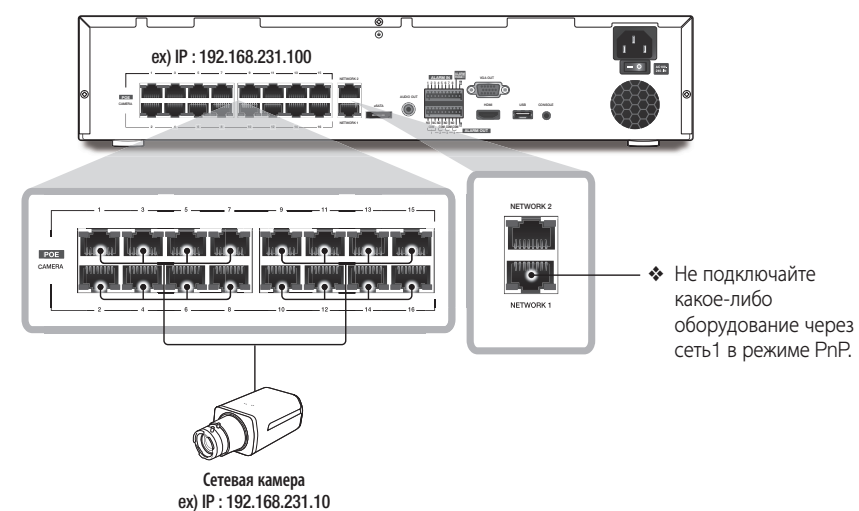


Подключение к Интернету через PPPoE

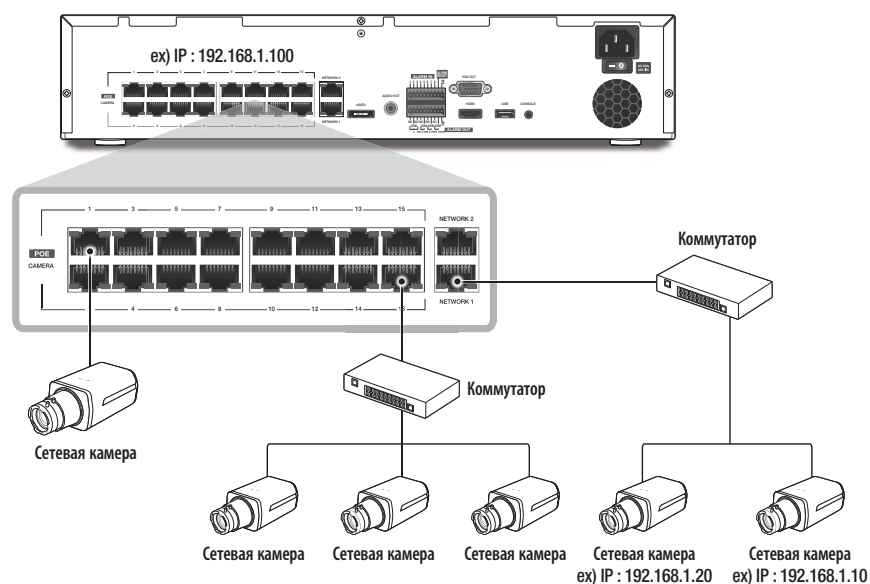


Подключение сетевой камеры (XRN-1610S/1610SA)

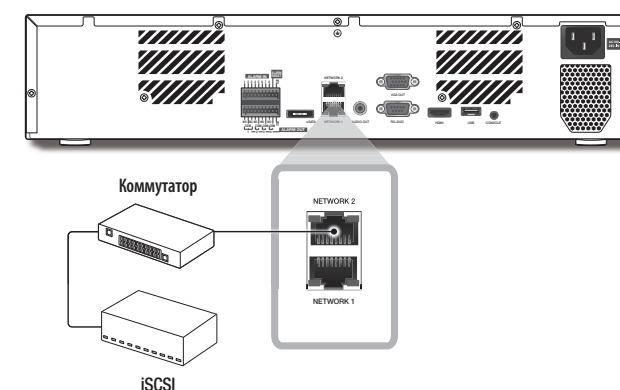
Пример 1)



Пример 2)

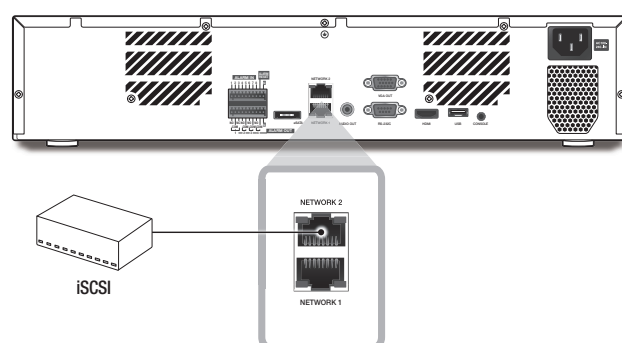


Для подключения может использоваться коммутатор.



Подключение к iSCSI

Непосредственно соединяется с сетевым видеорегистратором



• XRN-2010/2011/2010A/2011A

Элемент		Подробные сведения	
		XRN-2010/2010A	XRN-2011/2011A
Дисплей			
Сетевая камера	Входы	Макс. 32 канала	
	Разрешение	CIF ~ 12MP	
	Протоколы	Wisenet, ONVIF	
Прямая передача	Локальный дисплей	1x HDMI / 1x VGA	
Характеристики			
Операционная система	Встроенная	Linux	
Запись	Сжатие	H.265, H.264, MJPEG	
	Полоса пропускания записи	Макс. 256 МБ/с (запись в реальном времени на 32 2 мегапиксельных камеры)	Макс. 100МБ/с(RAID-5 Реж.)
	Разрешение	CIF ~ 12MP	
Поиск и воспроизведение	Полоса частот воспроизведения	32Мбит/с (16 каналов одновременно)	
	Одновременное воспроизведение	16 каналов (локальный монитор, CMS)	
	Разрешение	CIF ~ 12MP	
	Управление воспроизведением	Ускоренно/Медленно вперед/Назад, перемещение на один шаг вверх/вниз	
Накопитель	Встроенный	1 шт.	
	Встроенный жесткий диск	8 (RAID5 : Горячая замена) - Макс. 48TB(Non-RAID), Макс. 36TB(RAID-5)	
	Внешний	Хранилище iSCSI (до 384 Тбайт)	
	Массив RAID	-	RAID-5 (размер массива: 2 массива x 4 HDD)
Резервное копирование	Резервное копирование файлов (через Интернет)	BU/Exe(GUI), JPG/AVI(сеть)	
	Функция	Воспроизведение до 16 каналов, отображение даты и времени/названия	

Элемент		Подробные сведения	
		XRN-2010/2010A	XRN-2011/2011A
Сенсор	Ввод-вывод	8/4 (с выбором НР/НЗ)	
Аудио	Вход	32 канала (сеть)	
	Сжатие	G.711, G.726, AAC(16/48KHz)	
	Аудиосвязь	2-сторонняя	
Сеть			
Интерфейс		RJ-45, Gigabit Ethernet x2	
Протокол		TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Сервер, Клиент), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Сервер, Клиент)	
DDNS		Hanwha DDNS	
Полоса пропускания передачи		512 Мбит/с (iSCSI отключено), 256 Мбит/с (iSCSI включено)	
Максимальное число удаленных пользователей		Поиск (3)/Прямая одноадресная передача (10)/Прямая многоадресная передача (20)	
Версия IP		IPv4/v6	
Безопасность		Доступ через учетную запись пользователя, IP-фильтрация, 802.1x, шифрование	
Язык		Английский, французский, немецкий, итальянский, испанский, русский, турецкий, польский, голландский, шведский, чешский, португальский, датский, румынский, сербский, хорватский, венгерский, греческий, норвежский, финский, корейский, китайский, японский, тайский	
ОС		Windows 7, 8.1, 10, Mac OS X 10.9, 10.10, 10.11	
Веб-браузер		MS IE, Google Chrome, Mac Safari	
Программное обеспечение просмотра	Тип	SSM, Webviewer, SmartViewer, Wisenet Mobile Viewer	
	Поддержка системы управления содержимым (CMS)	SDK/CGI	
Смартфон	Опора модели	Android, iOS	
	Поддержка протоколов	RTP, RTSP, HTTP, CGI	
	Управление	Прямая передача (16), воспроизведение (1)	
	Макс. число удаленных пользователей	Поиск(3) / Прямая одноадресная передача(10)	

Элемент		Подробные сведения	
		XRN-2010/2010A	XRN-2011/2011A
Функции			
PTZ	Управление	Через графический интерфейс пользователя, Webviewer, SPC-2000	
	Предустановка	300 предустановок	
Резервирование	Failover	32 (Обычн.) + 1 (Режим ожидания)	
	ARB	Да	
Управление системой		Мышь, веб-управление, SPC-2000(Контроллер)	
Индикация/Интерфейс			
Передняя панель	Индикатор	Светодиодный индикатор состояния: Работа жесткого диска(1), тревожная сигнализация(1), питание(1), запись(1), Backup(1), сеть(1)	Светодиодный индикатор состояния: Работа жесткого диска(1), тревожная сигнализация(1), питание(1), запись(1), RAID(1), сеть(1)
	Переключатели	Отсутствует	
Разъемы	VGA	1 шт. (Поддержка прямого видео вплоть до режима разделения на 16 экранов)	
	HDMI	1 шт. (Поддержка прямого видео/воспроизведения/настройки) - Поддержка разрешения до 4 К (3840 x 2160)	
Разъемы	Аудио	Выход (1 шт., RCA, линейный)	
	Ethernet	RJ-45 2EA (LAN/WAN, 1Gbps)	
	Сигнал тревоги	1) Вход(8 шт., клеммный блок) 2) Alarm Reset(1 шт.) 3) Выход (4 шт., клеммный блок) - Relay Out1(NO/NC/COM) - Relay Out2~4(NO/COM)	
	USB	2шт.(спереди 1, вид сзади 1(USB3.0))	
	Хранение	1 e-SATA	
	Serial	RS-232C	
	Сброс	-	
	Шнур питания	1 шт. входа питания переменным напряжением	

Элемент		Подробные сведения	
		XRN-2010/2010A	XRN-2011/2011A
Система			
Журнал	Список в журнале	Макс. 20000 вводов (для системного журнала, для журнала событий отдельно)	
Условия эксплуатации			
Рабочая температура/влажность		От +0°C до +40°C (+32°F до +104°F)	
Влажность		20% ~ 85% RH	
Электропитание			
Питание		100-240 В перем. тока ±10%; 50/60 Гц, 4~1.5A	
Потребляемая мощность		99W (6ТБ HDD x 8 шт.)	
Механические характеристики			
Цвет/материал		Черный/металлик	
Размеры (ШxВxГ)		440x88x384.8 (17.32" x 3.46" x 15.15") (2U)	
Вес		4.86 kg (На основе номера HDD)	5.43 kg (На основе номера HDD)
Стандарты			
Разрешения		UL, FCC, KC, CB, CE-EMC, CCC, EAC, PSE	

Спецификация характеристики записи для условий работы HDD

№	Условие для HDD	Прием данных (Мбит/с)	Запись (Мбит/с)	
			Внутр.	iSCSI
1	HDD для CE / He RAID	256	256	-
2	HDD для CE / RAID 5	100	100	-
3	HDD для сервера / He RAID	256	256	256
4	HDD для сервера / RAID 5	100	100	100

• XRN-3010/3010A

Элемент		Подробные сведения
Дисплей		
Сетевая камера	Входы	Макс. 64 канала
	Разрешение	CIF ~ 12MP
	Протоколы	Wisenet, ONVIF
Прямая передача	Локальный дисплей	1x HDMI / 1x VGA Двойной монитор
	Характеристики	[Локальный монитор] - 12M (30fps) - 8.3M(120fps) - 1080p(480fps) - 720P(960fps) - D1(1560fps)
Характеристики		
Операционная система	Встроенная	Linux
Запись	Сжатие	H.265, H.264, MJPEG, WiseStream(H.265, H.264)
	Полоса пропускания записи	Макс. 300 МБ/с
	Разрешение	CIF ~ 12MP
Поиск и воспроизведение	Полоса частот воспроизведения	32Мбит/с (16 каналов одновременно)
	Польз.	До 4 пользователей (1 локальный, 3 удаленных)
	Одновременное воспроизведение	Макс. 16 каналов (локальный монитор, CMS)
	Разрешение	CIF ~ 12MP
	Компенсация оптического искажения камеры "рыбий глаз"	Web / CMS
	Управление воспроизведением	Ускоренно/Медленно вперед/Назад, перемещение на один шаг вверх/вниз
Накопитель	Встроенный	0TB ~ 8TB
	Встроенный жесткий диск	8 (Макс. 64TB)
	Внешний	-

Элемент		Подробные сведения
Резервное копирование	Резервное копирование файлов (через Интернет)	BU/Exe(GUI), JPG/AVI(сеть)
	Функция	Многоканальное воспроизведение (до 16 каналов), отображение даты-времени/заголовка
Сенсор	Ввод-вывод	8/4 (с выбором НР/НЗ)
Аудио	Вход	64 канала (сеть)
	Сжатие	G.711, G.726, AAC(16/48KHz)
	Аудиосвязь	2-сторонняя
Сеть		
Интерфейс		RJ-45, Gigabit Ethernet x2
Протокол		TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Сервер, Клиент), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Сервер, Клиент)
DDNS		Hanwha DDNS
Полоса пропускания передачи		XRN-3010 : 512Мбит/с XRN-3010A : 512Мбит/с(P2P Off), 256Мбит/с(P2P On)
Максимальное число удаленных пользователей		Поиск (3) / Прямая одноадресная передача (10) / Многоадресный (20)
Версия IP		IPv4/v6
Безопасность		Доступ через учетную запись пользователя, IP-фильтрация, 802.1x, шифрование
Язык		Английский, французский, немецкий, итальянский, испанский, русский, турецкий, польский, голландский, шведский, чешский, португальский, датский, румынский, сербский, хорватский, венгерский, греческий, норвежский, финский, корейский, китайский, японский, тайский
ОС		Windows 7, 8, 10, Mac OS X (10.8 или более поздняя)
Веб-браузер		MS IE, Google Chrome, Mac Safari
Программное обеспечение просмотра	Тип	SSM, Webviewer, SmartViewer, Wisenet Mobile Viewer
	Поддержка системы управления содержимым (CMS)	SDK/CGI (SUNAPI)
Функции		
PTZ	Управление	Через графический интерфейс пользователя, Webviewer, SPC-2000
	Предустановка	300 предустановок

Элемент		Подробные сведения
Смартфон	Опора модели	Android, iOS
	Поддержка протоколов	RTP, RTSP, HTTP, CGI(SUNAPI)
	Управление	Прямая передача(16ch) : Поддержка нескольких профилей воспроизведение(1ch)
	Макс. число удаленных пользователей	Поиск(3) / Прямая одноадресная передача(10) / Многоадресный (20)
Резервирование	Failover	N+1 (Include Fail-Back)
	ARB	Да
Управление системой		Мышь, веб-управление, SPC-2000(Контроллер)
Индикация/Интерфейс		
Передняя панель	Индикатор	Светодиодный индикатор состояния (6EA) : Работа жесткого диска(1), тревожная сигнализация(1), питание(1), запись(1), Backup(1), сеть(1)
Разъемы	VGA	Вспом.: 1 шт. (поддержка экрана прямого видео с режимом разделения до 16 экранов)
	HDMI	Главный: 1 шт. (поддержка прямого видео/воспроизведения/настройки) - Поддержка до 4K (3840 x 2160, режим разделения одного монитора)
Разъемы	Аудио	Выход (1 шт., RCA, линейный)
	Ethernet	RJ-45 2EA (LAN/WAN, 1Gbps)
	Сигнал тревоги	1) Вход(8 шт., клеммный блок) 2) Alarm Reset(1 шт.) 3) Выход (4 шт., клеммный блок) - Relay Out1(NO/NC/COM) - Relay Out2~4(NO/COM)
	USB	2шт.(спереди 1, вид сзади 1)
	Хранение	1 e-SATA
	Serial	RS-232C
	Сброс	Выключатель(1 шт.)
	Шнур питания	1 шт. входа питания переменным напряжением

Элемент		Подробные сведения
Система		
Журнал	Список в журнале	Макс. 20000 вводов (для системного журнала, для журнала событий отдельно)
Условия эксплуатации		
Рабочая температура/влажность		От +0°C до +40°C (+32°F до +104°F)
Влажность		20% ~ 85% RH
Электропитание		
Питание		100-240 В перем. тока ±10%; 50/60 Гц, 4~1.5A
Потребляемая мощность		Макс. 99W (338BTU, 6ТБ HDD x 8шт.)
Механические характеристики		
Цвет/материал		Черный/металлик
Размеры (ШxВxГ)		Ш440xВ88xГ384.8 (17.32" x 3.46" x 15.15") (2U)
Вес		4.86Kg(10.71 lb, HDD не включены)

Спецификация характеристики записи для условий работы HDD

Режим	Условие для HDD	Запись
		Внутр.
Общий режим	-	150
	1 жесткий диск	150
Распределенный режим	2 или более жестких дисков	300

• XRN-1610/1610S/1610A/1610SA

Элемент		Подробные сведения	
		XRN-1610/1610A	XRN-1610S/1610SA
Дисплей			
Сетевая камера	Входы	Макс. 16 канала	
	Разрешение	CIF ~ 12MP	
	Протоколы	Wisenet, ONVIF	
Прямая передача	Локальный дисплей	1x HDMI / 1x VGA Двойной монитор	
	Характеристики	[Локальный монитор] 12MP (30fps) 8MP(120fps) 5MP(180fps), 3MP(240fps), 2MP(480fps), 720p(480fps), D1(480fps) [Web] 5MP(30fps), 3MP(60fps), 2MP(120fps), 720p(240fps), D1(480fps)	
Характеристики			
Операционная система	Встроенная	Linux	
Запись	Сжатие	H.265, H.264, MJPEG, WiseStream(H.265, H.264)	
	Полоса пропускания записи	180Mbps	
	Разрешение	CIF ~ 12MP	
Поиск и воспроизведение	Полоса частот воспроизведения	32МБит/с (16 каналов одновременно)	
	Характеристики	Макс. 4 пользователей (установленных 1, удаленных 3)	
	Одновременное воспроизведение	Макс. 16 каналов (локальные, сетевые)	
	Разрешение	CIF ~ 12MP	
	Устранение оптических искажений камеры "рыбий глаз"	WEB / CMS	
	Управление воспроизведением	Ускоренно/Медленно вперед/Назад, перемещение на один шаг вверх/вниз	
Накопитель	Встроено по умолчанию	0TB ~ 6TB	
	Внутрен.	8 SATA (Макс. 48TB)	4 SATA (Макс. 24TB)
	Внешний	1 e-SATA, iSCSI (до 384 Тбайт)	
Резервное копирование	Формат файла	BU/Exe(GUI), JPG/AVI(сеть)	
	Функция	Воспроизведение до 16 каналов, отображение даты и времени/названия	

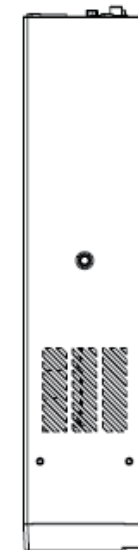
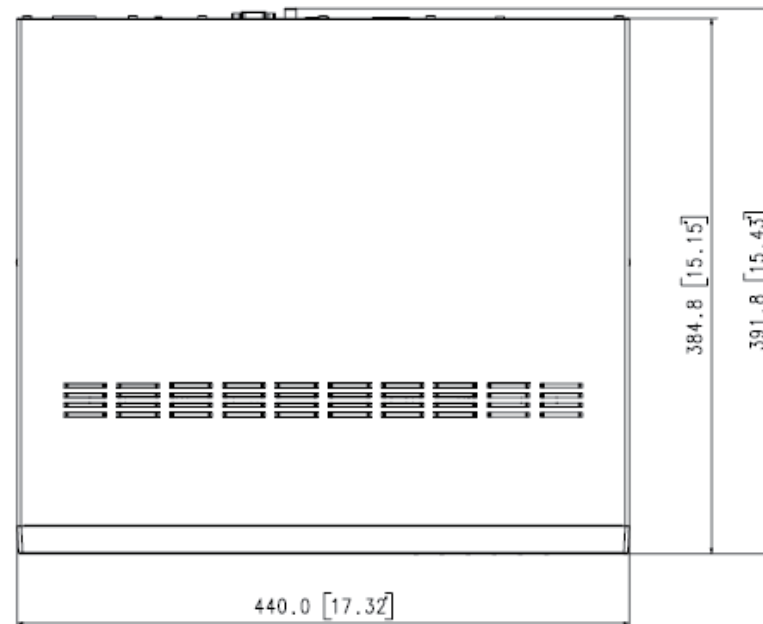
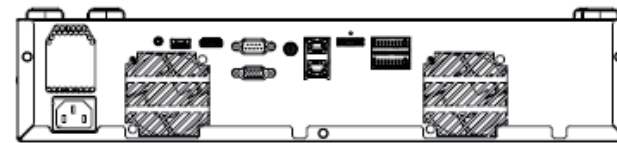
Элемент		Подробные сведения	
		XRN-1610/1610A	XRN-1610S/1610SA
Сенсор	Ввод-вывод	8/4 (с выбором НР/НЗ)	
Аудио	Вход	16 канала (сеть)	
	Сжатие	G.711, G.726, AAC(16/48KHz)	
	Аудиосвязь	2-сторонняя (ретрансляция между камерой и SSM)	
Сеть			
Протокол		TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Сервер, Клиент), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Сервер, Клиент)	
DDNS		Hanwha DDNS	
Transmission Bandwidth		Макс. 256 Мбит/с (iSCSI откл.) Макс. 128 Мбит/с (iSCS вкл.)	
Максимальное число удаленных пользователей		Поиск (3)/Прямая одноадресная передача (10)/Прямая многоадресная передача (20)	
Версия IP		IPv4/v6	
Безопасность		Доступ через учетную запись пользователя, IP-фильтрация, 802.1х, шифрование (ID/пароль, запись, передача, резервное копирование)	
Язык	GUI	Английский, французский, немецкий, итальянский, испанский, русский, турецкий, польский, голландский, шведский, чешский, португальский, датский, румынский, сербский, хорватский, венгерский, греческий, норвежский, финский, корейский, китайский, японский, тайский	
	Web	Английский, французский, немецкий, итальянский, испанский, русский, турецкий, польский, голландский, шведский, чешский, португальский, датский, румынский, сербский, хорватский, венгерский, греческий, норвежский, финский, корейский, китайский, японский	
ОС		Windows XP (пакет обновления 2 или более поздний), Vista, 7, 8, 10, Mac OS X (версия 10.7 или более поздняя)	
Веб-браузер		Webviewer, не подключаемый динамически Поддерживаемый браузер: Google Chrome 47, MS Edge 20 WMF : 1 КАНАЛ, ПРЯМОЕ ВИДЕО (800X600), НАСТРОЙКА Подключаемый программный модуль Webviewer Поддерживаемый браузер: MS Explore 11, Mozilla Firefox 43, Apple Safari 9 * только в Mac OS X	
Программное обеспечение просмотра	Тип	SSM, Webviewer, SmartViewer, Wisenet Mobile Viewer	
	Поддержка системы управления содержимым (CMS)	SDK/CGI (SUNAPI)	

Элемент		Подробные сведения	
		XRN-1610/1610A	XRN-1610S/1610SA
Смартфон	Опора модели	Android, iOS	
	Поддержка протоколов	RTP, RTSP, HTTP, CGI (SUNAPI)	
	Управление	Прямое видео (16 каналов) : Поддержка нескольких профилей Воспроизведение: (1 канал, до 2 Мп)	
	Макс. число удаленных пользователей	Поиск(3) / Прямая одноадресная передача(10) / Многоадресная передача (20)	
Функции			
Управление камерами	PoE	-	1) Контроль над потреблением питания PoE 2) Контроль включения/отключения каждой из камер PoE 3) Удаленный сброс каждой из камер PoE
	Синхронизация времени	-	Временной протокол цифрового видеорежистратора для камеры PoE (на основе времени сетевого видеорежистратора)
Простое конфигурирование		Мастер настройки (язык, дата/ время, локальная сеть, автоматическое конфигурирование камер)	Мастер настройки (язык, дата/время, локальная сеть, автоматическое конфигурирование камер) ※ выбирается между значениями PnP и Ручной режим
ARB (Резервная копия для автоматического восстановления)		Да	
PTZ	Управление	Через графический интерфейс пользователя, Webviewer, SPC-2000 (USB)	
	Предустановка	300 предустановок	
Управление системой	Приложения управления	Мышь, ИК пульт дистанционного управления, веб-управление, SPC-2000 (USB)	
Индикация/Интерфейс			
Передняя панель	Индикатор	Светодиод Питание 1 шт. Светодиод Работа жесткого диска 1 шт. Светодиод состояния сигнализации 1 шт. Светодиод состояния записи 1 шт. Светодиод Работа в локальной сети 1 шт. Светодиод Резервное копирование 1 шт.	
Разъемы	VGA	Вспом.: 1 шт. (поддержка экрана прямого видео с режимом разделения до 16 экранов)	
	HDMI	Главный: 1 шт. (поддержка прямого видео/воспроизведения/настройки) - Поддержка до 4K (3840 x 2160, режим одиночного монитора)	

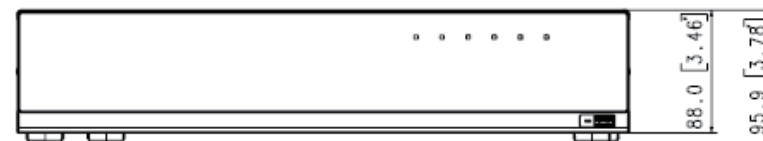
Элемент		Подробные сведения	
		XRN-1610/1610A	XRN-1610S/1610SA
Разъемы	Аудио	Выход 1 шт(RCA, линейный)	
	Ethernet	2 шт. (LAN/WAN, 1 Гбит/с) - LAN : Связь с нижележащими камерой/концентратором PoE(PoE+) - WAN : Связь с вышестоящей централизованной системой	16 шт. (PoE(PoE+), 100Мбит) 2 шт. (LAN/WAN, 1 Гбит/с) - LAN : Связь с нижележащими камерой/концентратором PoE(PoE+) - WAN : Связь с вышестоящей централизованной системой
	Сигнал тревоги	Вход(8шт., клеммный блок) Выход(4шт., клеммный блок)	
	USB	2шт.(спереди 1, вид сзади 1)	
	Serial	1 шт. RS-232C (планируется поддержка на основе проекта)	-
	Сброс	Да (сброс в заводские настройки, сброс по тревожному сигналу)	
	Шнур питания	Имеется	
Система			
Журнал	Список в журнале	Макс. 20000 вводов (для системного журнала, для журнала событий отдельно)	
Условия эксплуатации			
Рабочая температура/влажность		От +0°C до +40°C (+32°F до +104°F)	
Влажность		20% ~ 85% RH	
Электропитание			
Вход питания		100 ~ 240V AC	
Потребляемая мощность		Макс. 76.3W (8 HDDs)	Макс. 271,9 Вт (4 HDD, PoE (PoE+) вкл.), Макс. 51,9 Вт (4 HDD, PoE (PoE+) откл.) ※ Ресурс PoE (PoE+):до 200 Вт
Механические характеристики			
Цвет/материал		Черный/металлик	
Размеры (ШxВxГ)		440x88x384.8mm (17.32" x 3.46" x 15.15") (2U)	
Вес		5.44kg	5.1kg

• XRN-2010/2011/2010A/2011A

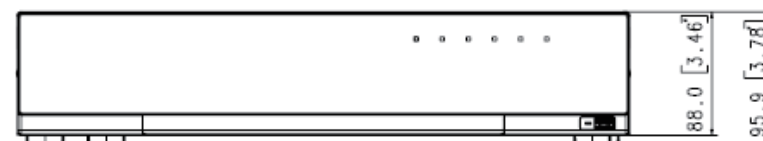
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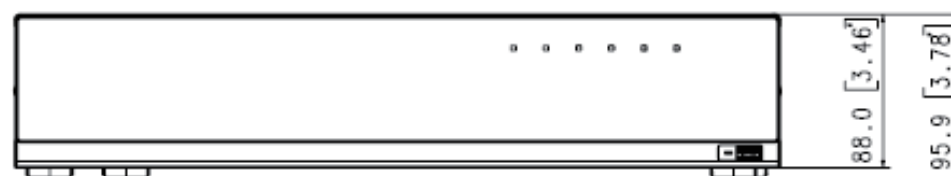
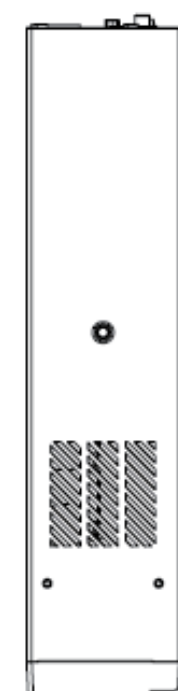
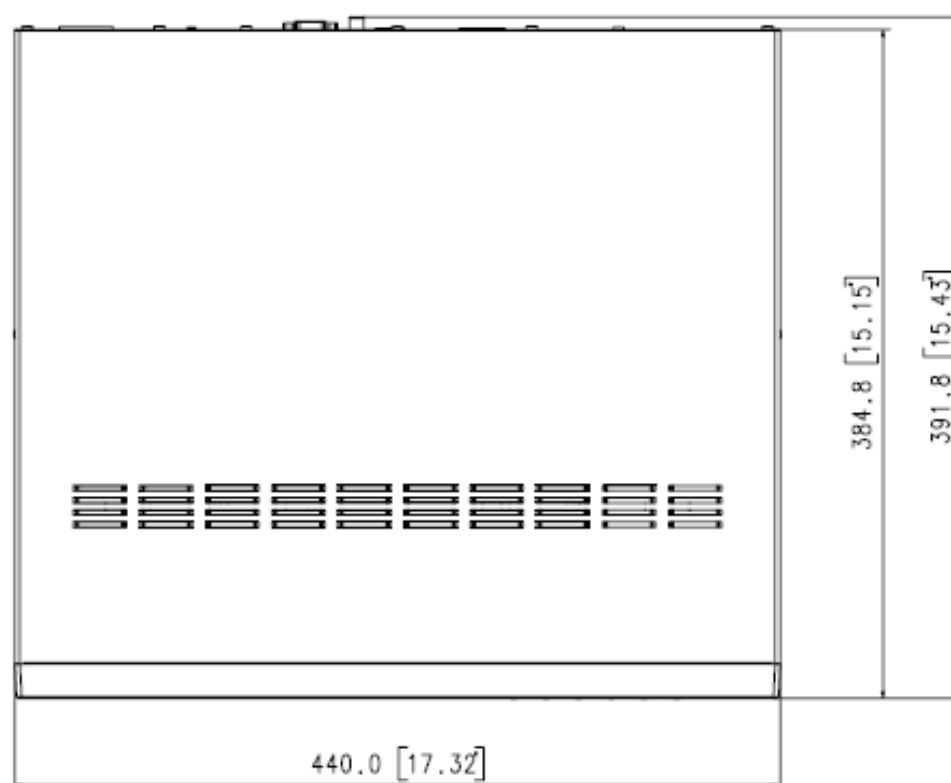
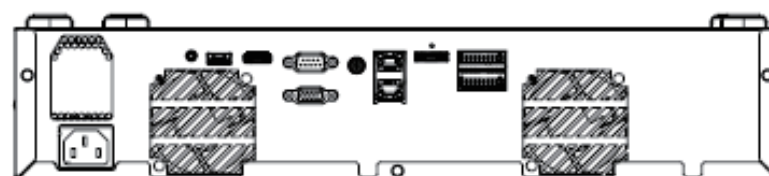


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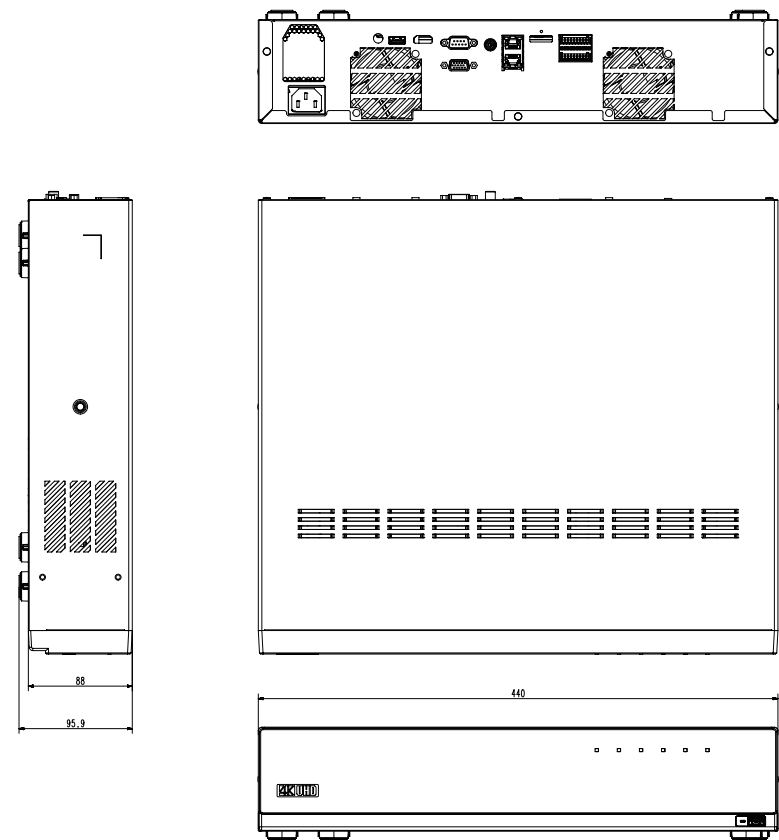
- XRN-3010/3010A

единицы измерения: мм (дюймы)



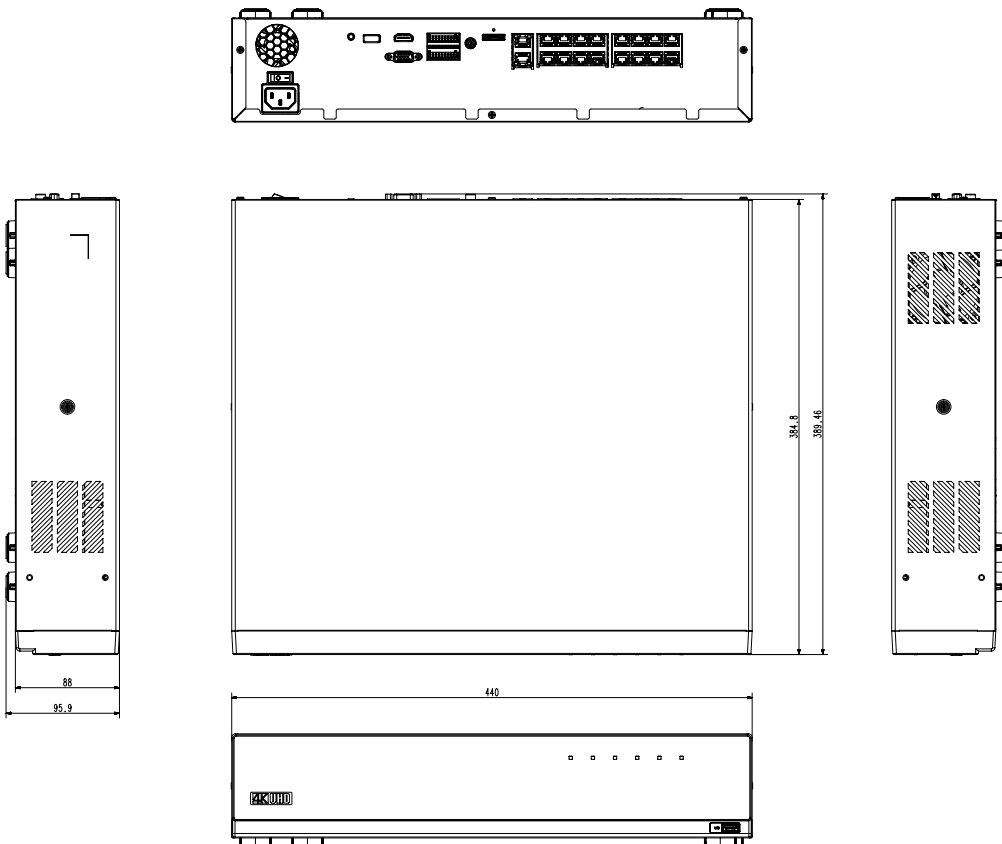
• XRN-1610/1610A

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• XRN-1610S/1610SA

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3. [3]Viraj Bais <vbais@mailman1.intel.com> and [4]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5

4. [5]Michael Barone <michael.barone@lmco.com> GPSVME fixes

5. [6]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option

6. [7]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.

7. [8]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver

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12. [13]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.

13. [14]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port

14. [15]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port

15. [16]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119

16. [17]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver

17. [18]Mike Iglesias <iglesias@uci.edu> DEC Alpha port

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22. [24]Frank Kardel [25]<Frank.Kardel@informatik.uni-erlangen.de> PARSE <GENERIC> driver (14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup

23. [26]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications

24. [27]Dave Katz <dkatz@cisco.com> RS/6000 AIX port

25. [28]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver

26. [29]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port

27. [30]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication

28. [31]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305

29. [32]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWW/H, IRIG

30. [33]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port

31. [34]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility

32. [35]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port

33. [36]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port

34. [37]Derek Mulcahy <derek@toybox.demon.co.uk> and [38]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver

35. [39]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling

36. [40]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port

37. [41]Wilfredo Sánchez <wsanchez@apple.com> added support for NetInfo

38. [42]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules

39. [43]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory

40. [44]Ray Schnitzler <schnitz@unipress.com> Unixware1 port

41. [45]Michael Shields <shields@tembel.org> USNO clock driver

42. [46]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver

43. [47]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)

44. [48]Kenneth Stone <ken@sdd.hp.com> HP-UX port

45. [49]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support

46. [50]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver

47. [51]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver

48. [52]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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