

WISENET

СЕТЕВОЙ ВИДЕОДЕКОДЕР

Руководство пользователя

SPD-151

CE

Сетевой видеodeкодер

Руководство пользователя

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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.
- 15) Данный аппарат предназначен для питания от утвержденного блока питания с маркировкой "Класс 2 (Class 2)" либо "LPS" с номинальным напряжением 12 В постоянного тока не менее 1,8 А.
- 16) Концентратор проводной локальной сети, предоставляющий питание по Ethernet (PoE) согласно IEEE 802-3af, должен быть устройством с сертификацией UL, с выходом, характеризующимся как источник ограниченной мощности, определенный в UL60950-1.
- 17) Сопутствующие электромонтажные соединения Ethernet должны ограничиваться внутренними помещениями здания.



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.

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.

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.

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.

Имейте в виду, что ответственность за безопасность и какие-либо проблемы, вызванные ненадлежащим обращением с паролем, несет пользователь.

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ФУНКЦИИ

Данное изделие позволяет наблюдать видео и прослушивать звук с сетевых камер. Предоставляется программная среда, в которой можно установить на ПК данное изделие.

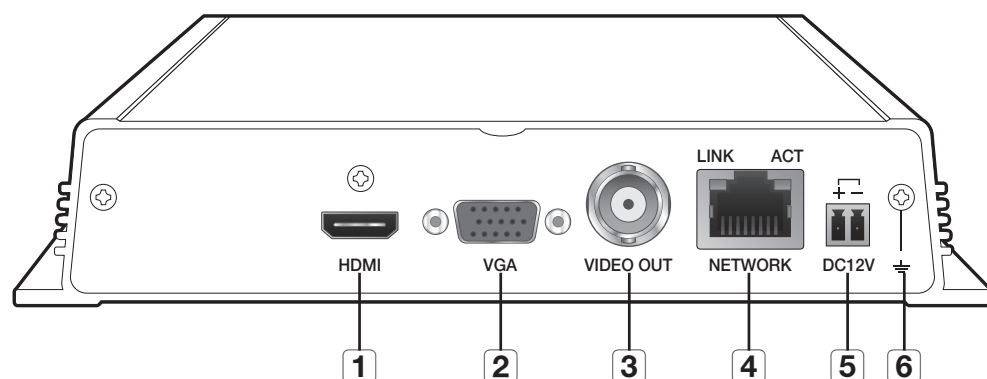
- Удобные элементы веб-интерфейса
- Поддержка камер с разрешением 4K
- Выводится изображение с высоким разрешением 4В по спецификации HDMI.
- Поддержка протоколов стандарта ONVIF Profile S и протоколов RTP/RTSP
- Одновременный вывод 49 каналов (HDMI: 32 канала, VGA: 16 каналов, CVBS: 1 канал).
- Поддержка различных расположений камер, определенных пользователем
- Синхронизация с использованием SSM VM

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.

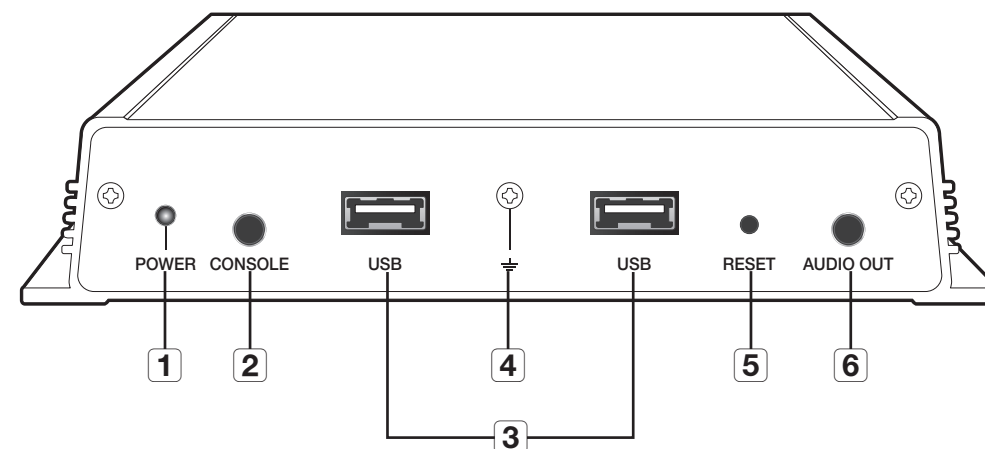
		
Decoder	Краткое руководство пользователя	Клеммный блок
		
Самонарезной винт	Пластиковый дюбель	

НАЗВАНИЯ И ФУНКЦИИ КОМПОНЕНТОВ (ВИД СПЕРЕДИ)



Названия компонентов	Функции
1 HDMI	Порт для подключения HDMI.
2 VGA	Выходной порт видеосигнала VGA.
3 VIDEO OUT	Разъем для передачи композитного видеосигнала.
4 NETWORK	Это соединитель для подключения кабеля Ethernet. <ul style="list-style-type: none"> Питание можно подавать через PoE. (Технические условия на PoE см. в разделе "Технические условия изделия").
5 DC12V	Это соединитель для подключения специального источника питания.
6 Соединение с землей	Клемма для подключения отдельного заземляющего провода. <ul style="list-style-type: none"> Для обеспечения безопасного пользования устройством добавьте заземляющий провод.

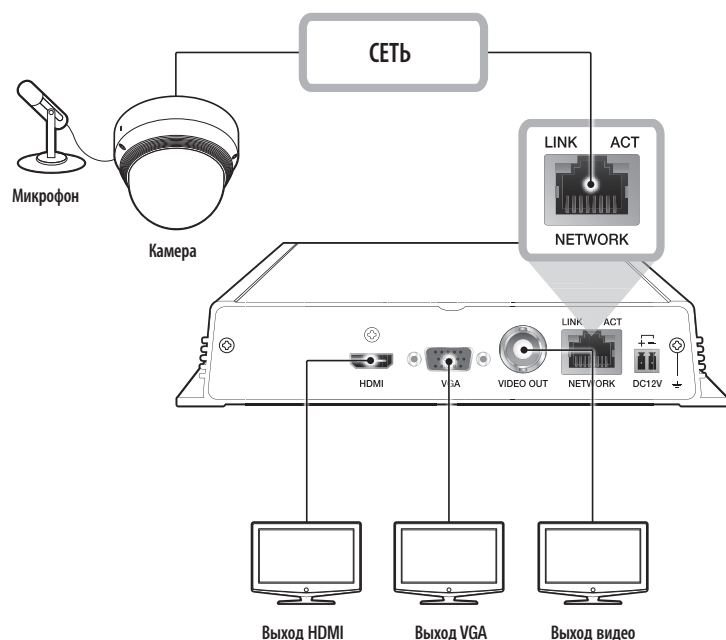
НАЗВАНИЯ И ФУНКЦИИ КОМПОНЕНТОВ (ВИД СЗАДИ)



Названия компонентов	Функции
1 POWER	Состояние питания ВКЛ./ВЫКЛ. отображается светодиодом.
2 CONSOLE	[CONSOLE] — это разъем для последующего обслуживания устройства.
3 USB	[USB] — это разъем для последующего обслуживания устройства.
4 Соединение с землей	Клемма для подключения отдельного заземляющего провода. <ul style="list-style-type: none"> Для обеспечения безопасного пользования устройством добавьте заземляющий провод.
5 RESET	Эту кнопку можно использовать для инициализации устройства, если вы забыли пароль. Если нажать кнопку и удерживать ее нажатой около 10 секунд, откроется всплывающее окно инициализации пароля с предложением сбросить пароль.
6 AUDIO OUT	Это соединитель для вывода голосового сигнала (штекер 3,5).

ПОДКЛЮЧЕНИЕ К ДРУГОМУ УСТРОЙСТВУ

ПОДКЛЮЧЕНИЕ К ВНЕШНЕМУ УСТРОЙСТВУ

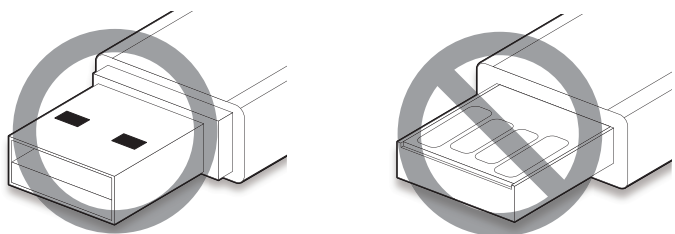


- ⚠ Отличный от номинальной мощности или неподходящий источник питания может привести к повреждению системы. Прежде чем нажать кнопку ПИТАНИЕ убедитесь, что используется источник питания номинальной мощности.

ПОДКЛЮЧЕНИЕ УСТРОЙСТВ USB

1. На передней стенке устройства имеется USB-порт.
2. Запоминающее устройство USB можно подключить через USB-порт.
3. Устройство поддерживает функцию "горячего" подключения, которая позволяет подключать и отключать устройства USB во время работы системы.

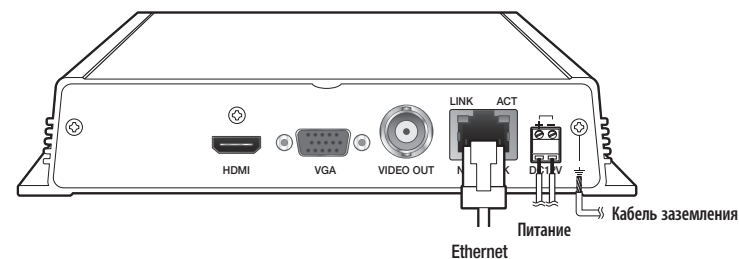
- ⚠ Проверьте функционирование USB-устройства перед использованием потому что могут возникнуть проблемы с совместимостью некоторых USB-устройств.
- Исключается гарантия работы кроме USB-устройств имеющих металлическое покрытие.
- Износ контакта USB-разъема может ухудшить качество передачи USB-сигнала.



ПОДКЛЮЧЕНИЕ ETHERNET

Для подключения к локальной сети или Интернету присоедините кабель Ethernet. Возможно подключение без адаптера питания при отдельном получении питания от переключателя PoE.

- Технические условия на PoE см. в разделе "Технические условия изделия". (стр. 28)



ПОДКЛЮЧЕНИЕ ПИТАНИЯ

Если используется обычный кабель Ethernet, подключите источник питания через адаптер питания. Пользуясь отверткой, подключите, провода (+, -) адаптера питания к клеммам входа питания сетевого видеodeкодера.

- ⚠ При одновременном использовании PoE и питания 12 В постоянного тока устройство будет работать от внешнего питания (12 В постоянного тока).
 - Если для подключения использован маршрутизатор с функцией PoE, внешнего питания не требуется.
 - PoE должно быть совместимо с IEEE 802.3af.
- Поскольку напряжение 12 В постоянного тока имеет полярность, будьте внимательны при его подключении.
- При подключении внешних устройств прежде всего необходимо отключить питание на устройства.
- Сначала присоедините к комплекту кабель с адаптером питания, а затем вставьте последний в розетку 220 В.
- Не используйте удлинитель выходного кабеля с адаптером.
- Если требуется удлинить кабель питания, обратитесь в сервисный центр.

Технические данные кабеля питания для каждой модели

Входная мощность	Калибр провода (AWG)	Длина кабеля (макс.)
12 В постоянного тока	#18	19m
	#16	30m

ПОДКЛЮЧЕНИЕ ПРОВОДА ЗАЗЕМЛЕНИЯ

Пользуясь отверткой, присоедините провод заземления к винту FG с правой стороны от клеммы входа питания.

- ! Заземление защищает изделие от повреждения при ударе молнии.
- При подключении удостоверьтесь, что отключили питание устройств.

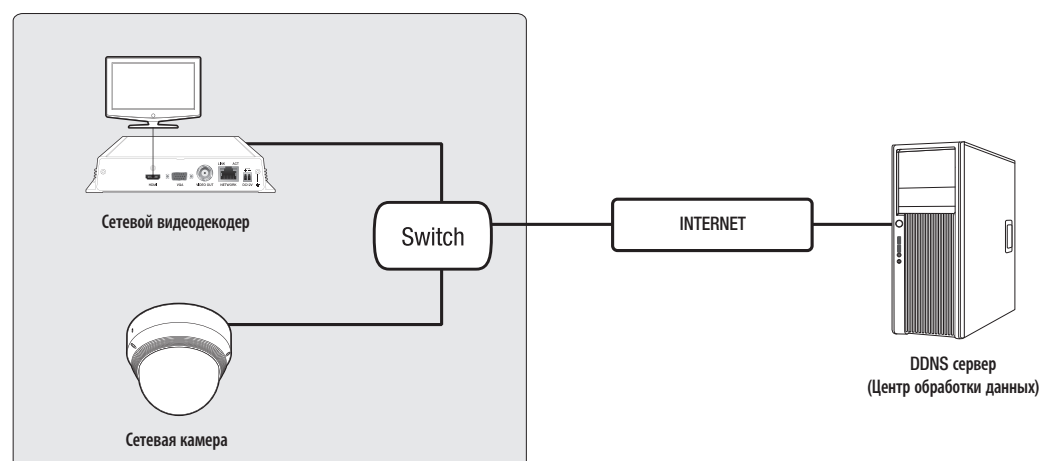
Рекомендуемые технические данные провода заземления

- Длина: Не более 3 м
- Толщина: 18AWG или толще
Например: UL1007 AWG18/16, UL1015 AWG18/16/14/12, UL2468 AWG18/16/14

ПОДКЛЮЧЕНИЕ СЕТИ

- ✍ Для получения дополнительной информации о сетевом подключении см. раздел “Сетевая конфигурация”. (стр. 24)

Монтаж сетевого видеodeкодера



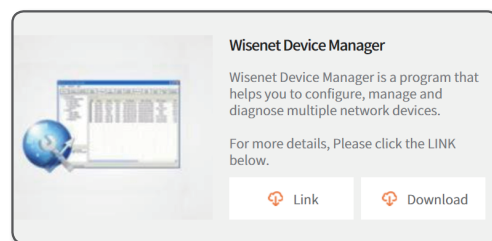
ИСПОЛЬЗОВАНИЕ DEVICE MANAGER

С помощью Wisenet Device Manager можно без труда настроить и запустить вашу сеть и быстро проверять ее состояние.

Установка Device Manager

Чтобы загрузить программу Device Manager, перейдите на официальный сайт Hanwha Techwin (<http://www.hanwha-security.com>).

1. На этом сайте откройте страницу **<Technical Guides>** – **<Online Tool>**, где можно загрузить Wisenet Device Manager.
2. Загрузите и установите программу Device Manager.
 - После установки программа запустится автоматически.
 - Подробнее об использовании Device Manager см. в разделе **<Help>** в главном меню.



Посмотреть видеоруководство по использованию программы Device Manager

На экране загрузки программы Device Manager нажмите [Link](#).

В этом видео можно ознакомиться со следующими темами.

- Общая информация о Device Manager
- Изменение имени пользователя и пароля для устройства
- Использование проекта
- Изменение IP-адреса устройства
- Просмотр информации об устройстве
- Сохранение и восстановление настроек устройства
- Настройки параметров видео в камере
- Настройки общих параметров камеры
- Загрузка и обновление внутреннего ПО

ПОДКЛЮЧЕНИЕ СЕТЕВОГО ДЕКОДЕРА

Обычный порядок действий

1. Запустите веб-обозреватель.
2. Введите IP-адрес сетевого декодера в адресной строке.
 - пр) • IP-адрес (IPv4) : 192.168.1.200
→ <http://192.168.1.200>
 - Появится диалоговое окно входа.
 - IP-адрес (IPv6) : 2001:230:abcd:ffff:0000:0000:ffff:1111
→ [http://\[2001:230:abcd:ffff:0000:0000:ffff:1111\]](http://[2001:230:abcd:ffff:0000:0000:ffff:1111])
 - Появится диалоговое окно входа.



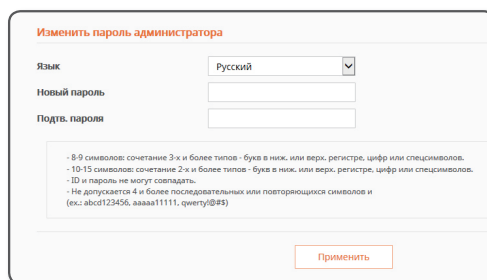
Номер порта HTTP отличен от 80

1. Запустите веб-обозреватель.
2. Введите IP-адрес и номер порта HTTP сетевого декодера в адресной строке.
 - пр) IP-адрес: 192.168.1.200: номер порта HTTP(8080)
→ <http://192.168.1.200:8080>
 - Появится диалоговое окно входа.

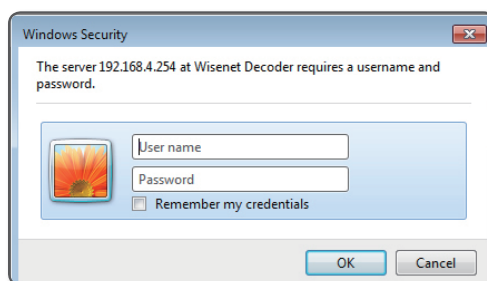
ВХОД

При первом подключении после приобретения необходимо указать язык, который вы предпочитаете, и ввести новый пароль.

1. Выберите язык в поле <Язык>.
2. В поле <Новый пароль> введите новый пароль для учетной записи администратора.
3. В поле <Подтв. пароля> введите новый пароль для учетной записи администратора еще раз.
4. Нажмите кнопку [Применить].
После регистрации нового пароля появится окно входа в систему.



- Для безопасности удостоверьтесь, что изменили пароль, на экране настройки <Польз.>-<Администратор>.
- Если ввести имя пользователя и пароль, а затем установить флажок 'Сохранить пароль в списке паролей', имя пользователя и пароль будут автоматически устанавливаться при подключении в следующий раз.
- В учетную запись "admin" невозможно войти дважды.
- Доступ в учетную запись пользователя возможен приблизительно через пять минут после отключения от учетной записи "admin".



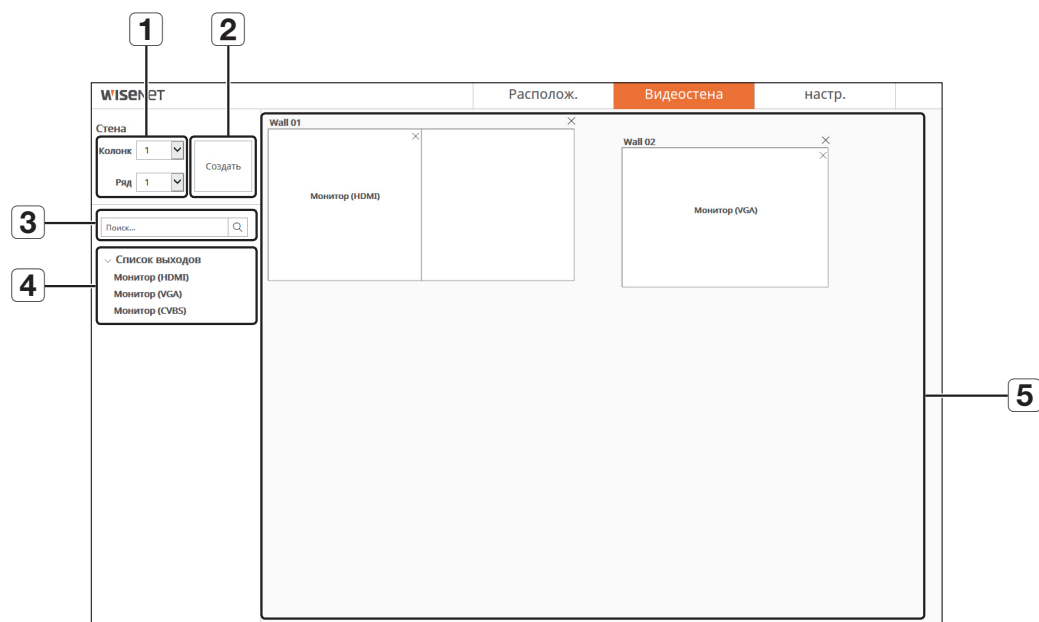
Требования к системе

Минимальные требования к оборудованию и операционной системе для запуска средства веб-просмотра следующие:

Название	Минимальные технические данные
ОС	<ul style="list-style-type: none"> - Поддерживаемые ОС: Windows : 7, 8.1, 10 Mac OS X : 10.10, 10.11, 10.12, 10.13 - Поддерживаемые браузеры: Google Chrome 63, Apple Safari 11 (только для Mac OS X), Microsoft Edge 41, Internet Explorer 11 Рекомендуется использовать продукт в специально предназначенных для него версиях браузеров (они перечислены ниже). <ul style="list-style-type: none"> - Chrome 63 или более поздняя версия, Safari 11 или более поздняя версия
Сеть	Сетевая плата 10/100/1000 Ethernet

НАСТРОЙКИ ВИДЕОСТЕНЫ

Устанавливается местоположение и раскладка подключенных мониторов.



Имя меню	Описание функций
1 Колонка/Ряд	Устанавливается число рядов и столбцов создаваемой видеостены.
2 Создание видеостены	Создается столько видеостен, сколько вы задали.
3 Поиск	Выполняется поиск монитора из списка выходов.
4 Список выходов	Отображается список подключенных мониторов. Подключенные мониторы включены.
5 Задний план	Размещение сгенерированных видеостен.

Установка видеостены

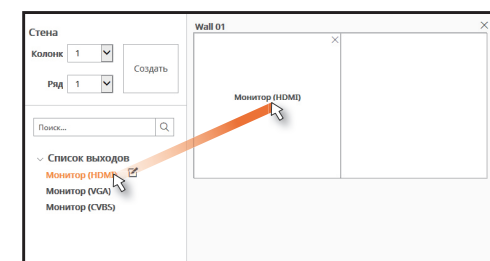
1. Задайте число столбцов/рядов вверху слева экрана видео стены.
2. Нажмите кнопку <Создать>.
3. Задание видеостены регистрируется на правой стороне экрана.

Если созданной видеостене назначено больше одного монитора, войти в меню раскладки невозможно.



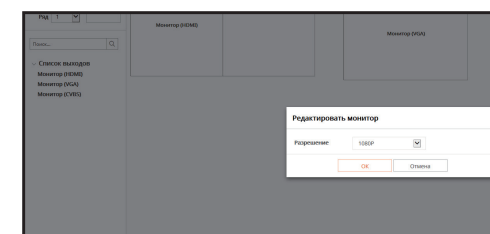
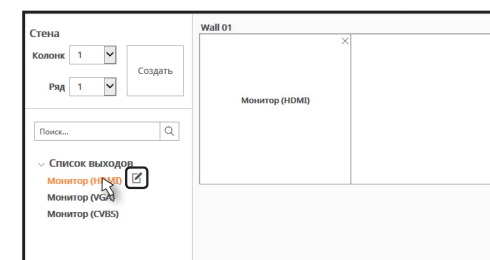
Назначение монитора

1. Из списка подключенных мониторов на левой стороне экрана выберите монитор, который нужно назначить видеостене, затем щелкните по нему и перетащите его туда.
2. Для удаления монитора, назначенного видеостене, щелкните по [X] в верхнем правом углу назначенного монитора.



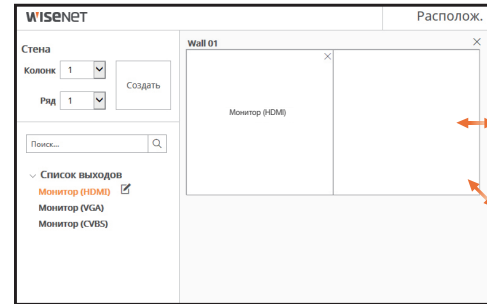
Редактирование монитора

1. После выбора монитора из списка появляется кнопка редактирования монитора.
 2. Нажмите кнопку [✎] для установки разрешения монитора.
- Разрешения: Монитор HDMI можно установить на 1280x1024, 720P, 1080P, 1440P и 2160P. Монитор VGA можно установить на 1280x1024, 720P и 1080P.

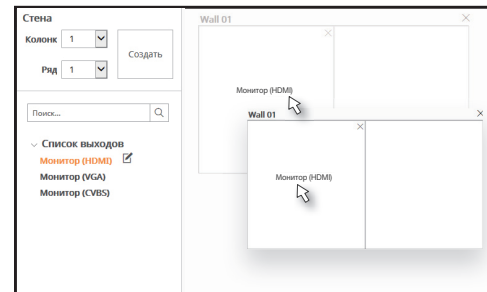


Редактирование видеостены

1. Если навести курсор мыши на край видеостены, вид курсора изменяется, и видеостену можно будет увеличить или уменьшить. Видеостену можно увеличивать с перекрытием других видеостен.

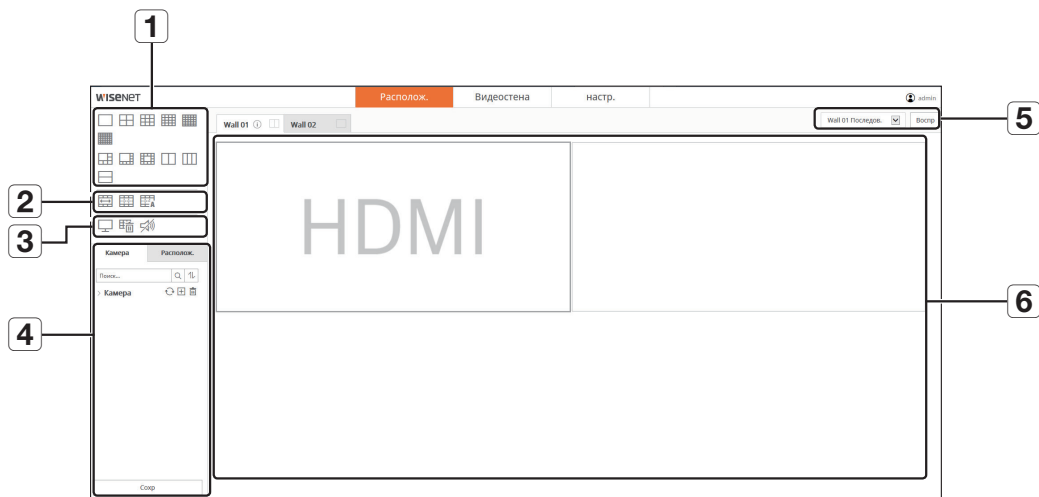








2. Можно перемещать видеостену, щелкнув по ней и перетаскив ее.
3. Нажмите кнопку [X] в правом верхнем углу видеостены, и появится всплывающее окно подтверждения. Выберите <ОК> для удаления видеостены.



РАСПОЛОЖ.

- Стены создаются из меню видеостены. Каждой созданной видеостене должен быть назначен хотя бы один монитор. Обратитесь к меню "Настройки видеостены" (стр. 14).

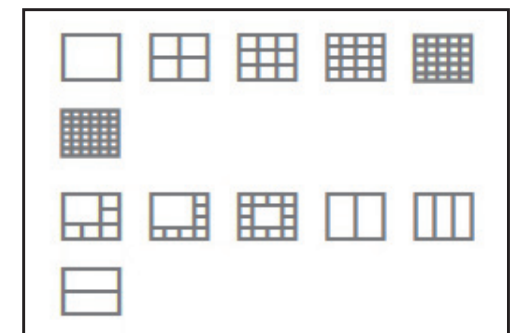


Имя меню	Описание функций
1 Разделение экрана	Выбирается разделение экрана для каждого монитора.
2	 Выбрать два или более мониторов и объединить их.
	 Выбрать объединенную мозаику и разделить ее.
	 Разделить все объединенные мозаики.
3	 Выбирается, использовать ли отображение экранного меню (OSD). Если отображение экранного меню выбрано, информация о камере отображается в верхнем левом углу экрана монитора.
	 Все камеры, назначенные монитору, будут удалены.
	 Выбирается включение/отключение звука. <ul style="list-style-type: none"> Если звук включен, то, если навести на значок курсор мыши, можно с использованием подсказки проверить включенный в данный момент канал аудио.

Имя меню	Описание функций
4	Камера Добавляются, редактируются и удаляются камеры.
	Располож. Добавляются, редактируются и удаляются раскладки.
5	Воспроизведение с чередованием Раскладка выбранной видеостены воспроизводится по очереди. <ul style="list-style-type: none"> Перед таким воспроизведением должны быть созданы хотя бы две раскладки.
6	Монитор видео стены Отображается назначение мониторов.

Изменение разделения экрана

Если нажать кнопку при выборе разделения экрана, экран изменяется на разделенный.



Слияние/разделение мониторных мозаик

Слияние мониторных мозаик

1. Выберите 2 или более мониторных мозаик для слияния и нажмите кнопку [⊞].



2. Выбранные мозаики сольются в одну.

- ! Слияние разделенных экранов мониторов возможно только, если экраны разделены одинаково на NxN (2x2, 3x3, 4x4).



Разделение мониторной мозаики

1. Выберите соединенную мозаику и нажмите кнопку [⊞].



2. Выбранная мозаика разделится в свое первоначальное состояние.

3. Если нажать кнопку [⊞], не выбрав определенную соединенную мозаику, разделится все мозаики, для которых было выполнено слияние.

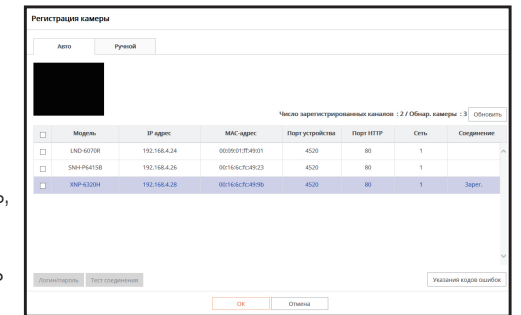


Регистрация камеры

Сетевые камеры можно регистрировать и назначать другому монитору.

Для проведения автоматического поиска и регистрации сетевой камеры

1. Нажмите кнопку [⊞] на пункте камеры.
2. Поиск подключенной сетевой камеры.
 - Уже зарегистрированная камера будет отмечена в списке синим.
 - Если при повторном поиске камеры или при использовании старого IP-адреса, который не был назначен сервером DHCP (например, 192.168.1.200), нажмите кнопку <Обновить>, чтобы проверить, был ли назначен новый IP-адрес.



3. Выберите камеру из списка камер, чтобы выполнить просмотр текущего изображения, полученного с этой камеры.
 - Камера, найденная с протоколом ONVIF, не обеспечивает предпросмотров.
4. Проверьте флажок рядом с сетевой камерой, которую нужно подключить.
 - Можно выбрать все сетевые камеры в списке и сразу же ввести <ID> и <Пароль>.
 - Нажмите на заголовок в верхней части списка, чтобы отсортировать список по заголовку.

- ! При изменении ID/пароля камеры в средстве веб-просмотра камер, если камеры уже зарегистрирована в декодере, измените информацию ID/пароля камеры также и в декодере.

5. Нажмите на кнопку <Логин/пароль>, чтобы ввести <ID> и <Пароль> выбранной сетевой камеры.
6. Для того чтобы выполнить подключение к камере, нажмите кнопку <Тест соединения>.
7. Нажмите <ОК> для регистрации выбранной камеры.

Для проведения поиска и регистрации сетевой камеры вручную

1. Нажмите кнопку <Ручной>.
2. Появится окно ручного поиска.
3. Для подключения к камере выберите канал и используемый протокол. Пункты ввода могут отличаться в зависимости от выбранного протокола.

- Wisenet : Совместима с внутренними сетевыми протоколами, принятыми компанией Hanwha Techwin.
- ONVIF : Означает, что камера поддерживает протоколы ONVIF. При подключении камеры, название которой отсутствует в списке, выберите <ONVIF>.

- Если разница времени между камерой ONVIF и декодером меньше 2 минут, они не смогут соединиться. Способы устранения в этом случае: либо изменить время камеры ONVIF, либо синхронизировать время по NTP-серверу (когда часовой пояс один и тот же) и для камеры и для декодера, либо использовать декодер как NTP сервер.

- RTSP : Совместим с RFC 2326, одним из **"Потоковых протоколов реального времени (RTSP)"** для передачи потокового видео в реальном времени.

4. При выборе протокола <Wisenet> установите флажки, как это требуется.

- Модель: Выберите модель камеры.
 - Wisenet Network Camera/Encoder: кодирования Означает, что камера/кодер поддерживают протокол SUNAPI, SVNP Hanwha Techwin. При подключении камеры, которой нет в списке, выбирайте Wisenet Network Camera/Encoder.
 - MultiDirectional Network Camera : Можно регистрировать камеры с разнонаправленными объективами и мультисенсорные камеры Hanwha Techwin. Сетевая камера с разнонаправленными объективами — это камера, в корпусе которой заключены несколько видеомодулей.
- Тип адреса: Выберите тип адреса камеры. Тип адреса может различаться в зависимости от подключаемой модели изделия.
 - Статич.(IPv4) / Статич.(IPv6) : Используется для ввода IP-адреса вручную.
 - Wisenet DDNS : Имеется только если камера зарегистрирована на сервере Wisenet DDNS(ddns.hanwha-security.com). Для DDNS ID вводится регистрационный домен. Например: http://ddns.hanwha-security.com/snb5000 → для Wisenet DDNS вводится "snb5000".
 - URL-адрес: Используется для ввода URL-адреса.

- Обратитесь к руководству пользователя и проверьте спецификацию DDNS, которая поддерживается камерой.

- IPv4 : Вводится IP-адрес камеры.
- Порт устройства: Введите порт устройства для камеры.
- Порт HTTP: Введите HTTP-порт камеры.
- ID: Введите ID регистрируемой камеры.
- Пароль: Введите пароль камеры, которую необходимо зарегистрировать.

5. Выберите протокол <ONVIF> или <RTSP> и заполните все появляющиеся поля своими данными.

- ONVIF-адрес / RTSP URL : Введите адрес камеры для доступа по протоколу RTSP с поддержкой протокола ONVIF или RTSP.
- IPv4 : Вводится IP-адрес камеры.
- Порт ONVIF : Вводится порт ONVIF камеры.
- Адрес доступа по потоковому протоколу реального времени (RTSP) : Вводится адрес RTSP-доступа камеры, которая поддерживает ONVIF или RTSP. Адрес доступа определенного RTSP см. в руководстве для каждой камеры.
- ID : Введите ID для доступа по протоколу ONVIF/RTSP.
- Пароль : Введите пароль для доступа по протоколу ONVIF/RTSP.
- Подробнее : Если нажать кнопку <Подробнее>, появится окно настройки. Выберите режим, который поддерживается сетевой камерой при соединении по протоколу RTSP.
 - TCP: Тип подключения сетевой камеры переключится на "RTP поверх TCP".
 - UDP: Тип подключения сетевой камеры переключится на "RTP поверх UDP".
 - HTTP: Тип подключения сетевой камеры переключится на "RTP поверх TCP (HTTP)".
 - HTTPS: Тип подключения сетевой камеры переключится на "RTP поверх TCP (HTTPS)".

Проверка деталей ошибки регистрации камеры

Если регистрация камеры прошла неудачно, отобразится причина ошибки.

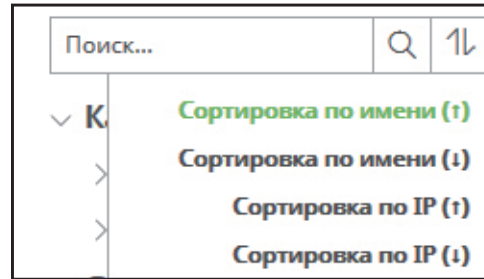
- **Ошибка подключения по неизвестной причине.** : Это сообщение появляется, если камера не регистрируется из-за неизвестного состояния соединения.
- **Ошибка доступа из-за блокирования учетной записи камеры.** : Когда ID/пароль для подключения к учетной записи камеры вводятся неправильно 5 раз, появляется такое сообщение. Попробуйте войти снова через 30 секунд. Если появляется это же сообщение, возможно, требуется проверка, не пытается ли кто-нибудь посторонний получить доступ к вашей камере.
- **Подключено успешно** : Это сообщение появляется в случае успешного подключения камеры.
- **Некорректная информация о модели. Введите правильные данные модели.** : Это сообщение появляется, если данные модели, введенные для регистрации, некорректны.
- **Сбой проверки подлинности:** Это сообщение появляется, если ID или пароль, введенные для регистрации, некорректны.
- **Ошибка подключения из-за избыточного числа одновременно работающих пользователей.** : Это сообщение появляется, если число одновременно работающих пользователей превышает верхний предел.
- **Ошибка подключения из-за некорректной информации о порте HTTP.** : Это сообщение появляется, если введен недопустимый номер порта HTTP камеры.
- **Ошибка подключения. Неизвестное состояние соединения.** : Это сообщение появляется, если камера не регистрируется из-за неизвестной ошибки.

Редактирование зарегистрированной камеры

Сортировка списка камер

Можно отсортировать список камер по имени/IP-адресу, нажав правую < [↕] > кнопку поиска.

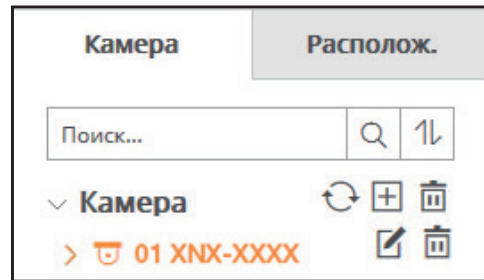
- Если выбрана 'сортировка по IP (в возрастающем порядке) (sort by IP (in ascending order))', камеры сортируются по порядку IPv4, а камеры, зарегистрированные по URL/IPv6, сортируются после списка.



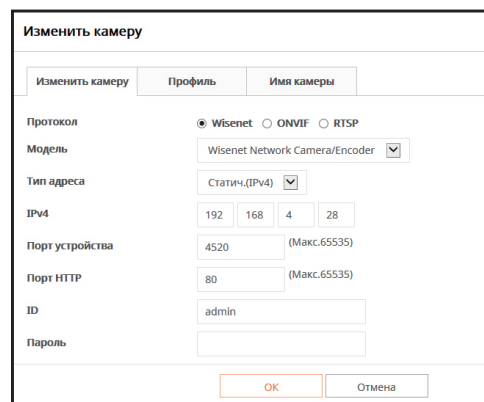
Редактирование камеры

- Выберите камеру, подлежащую редактированию, из списка камер.

- Для того чтобы обновить информацию о доступе к камерам, вновь нажмите кнопку [↻].



- Если нажать кнопку [✎] справа от выбранной камеры, появляется всплывающее окно модификации камеры.
- Отредактируйте данные, которые вы хотите изменить, и нажмите <OK>.

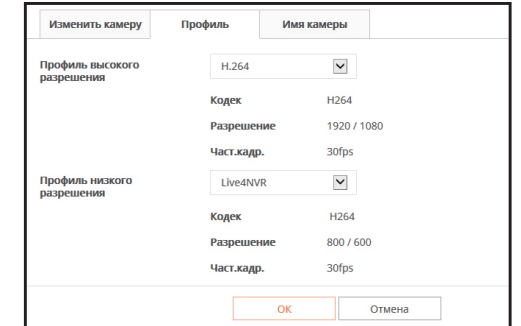


Профиль видео

Можно задать профиль видео подключенной сетевой камеры.

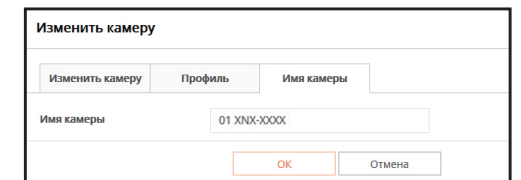
- Можно задавать только профиль, поддерживаемый камерой.

- После отдельного назначения высокого и низкого разрешений можно назначать необходимые разрешения в раскладке.
 - См. раздел 'Назначение камеры'. (стр. 20).



Имя камеры

Можно задать имя камеры.



Удаление камеры

Выберите удаляемую камеру и нажмите кнопку [🗑] для удаления камеры.

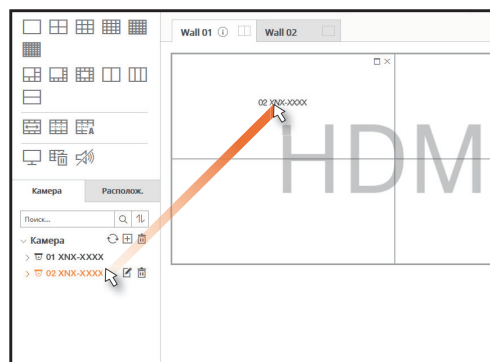
- Если нажать правую [🗑] кнопку камеры, можно удалить ее из всего списка камер.

Назначение камеры

1. Из списка подключенных камер на левой стороне экрана перетащите камеру, которую нужно назначить монитору.
2. Для удаления назначенной камеры нажмите [X] в верхнем правом углу назначенного монитора.



- Если назначать камеру щелчком с перетаскиванием, для раскладок с разделением более чем на 4 экрана будет автоматически назначаться профиль низкого разрешения, а профиль высокого разрешения будет автоматически назначаться для раскладок с разделением на 4 экрана и менее.
- Если перетащить профили высокого и низкого разрешения, которые появляются при щелчке по кнопке [>] > стрелки слева в списке камер, можно непосредственно назначать им соответствующие профили.
- Если нажать кнопку [□], видеостена расширится на полный экран. Если нажать кнопку [X], увеличение видеостены изменится на исходный размер.



Настройка раскладки

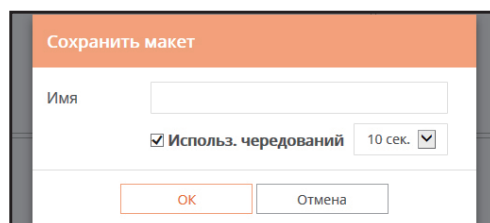
Если раскладка после регистрации камеры не добавлена или не сохранена, этот экран не появится.

Добавление раскладки

1. Нажмите кнопку [+].
2. Задайте имя раскладки, которую нужно добавить и отметьте флажком, использовать ли чередование. Если выбрать использование чередования, можно задать время переключения при чередовании, чередование будет воспроизводиться через заданный интервал времени.
3. Нажмите кнопку <ОК>, чтобы добавить раскладку.

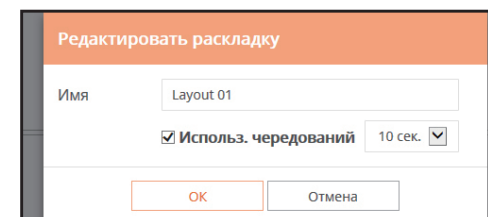


- Можно искать свои зарегистрированные раскладки с помощью поля <Поиск>.



Редактирование раскладки

1. Выберите раскладку для редактирования и нажмите кнопку [✎].
2. После модификации данных, которые вы хотите изменить, нажмите <ОК>.

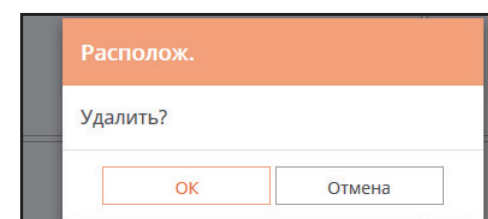


Удаление раскладки

1. Выберите раскладку, подлежащую удалению, и нажмите кнопку [🗑].
2. Нажмите <ОК>.



- Если не нажать кнопку <Сохранить>, изменения не будут сохранены.



МЕНЮ НАСТРОЙКИ

Параметры «Система», «Пользователь», «Устройство съемки» (режим SSM) и «Сеть» можно настроить по вашему усмотрению.

НАСТРОЙКА СИСТЕМЫ

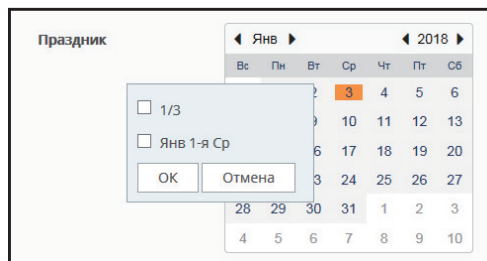
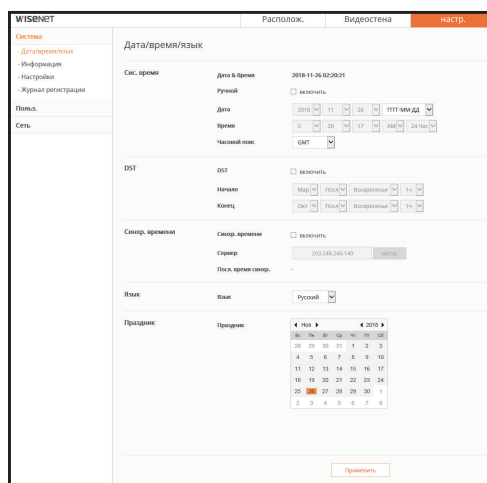
Можно установить дату/время/язык, управление системой и информацию журнала.

Дата/время/язык

Настройка даты/времени/языка

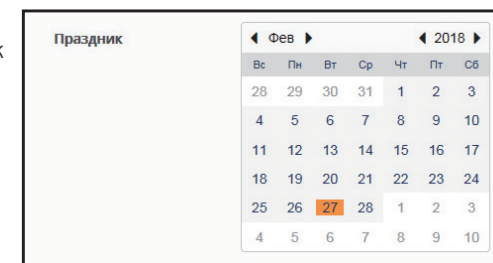
Можно проверить и установить текущие дату/время и время, относящееся к свойствам, а также язык, используемый для экранного интерфейса.

- Сис. время : Устанавливается время, применяемое к системе.
 - Дата & Время : Установка даты и ее формата, отображаемого на экране.
 - Ручной : Установка системного времени вручную.
 - Дата : Устанавливается дата, применяемая к системе.
 - Время : Устанавливается время, применяемое к системе.
 - Часовой пояс : Устанавливается часовой пояс зоны, где установлен декодер, на основе стандартного времени (GMT).
 - Среднее время по Гринвичу является стандартным мировым временем и является основой для разбиения на часовые пояса.
- DST : Установите переход на зимнее/летнее время с указанием периода, когда время должно быть на час раньше, чем поясное время региона, отсчитанное от гринвичского.
- Синхр. времени : Определяется использование синхронизации с сервером времени. Если выбрать использование <Сервер>, то текущее время будет регулярно синхронизироваться с сервером, заданным как <Сервер>. В этом случае невозможно изменить настройку времени вручную.
 - Синхр. времени : Определяется использование синхронизации с сервером времени.
 - Сервер : Введите IP-адрес или URL-адрес сервера времени.
 - Посл. время синхр. : Отображается время самой последней синхронизации с сервером времени.
- Язык: Выбор языка. Устанавливается язык для интерфейса. Поддерживаются английский, французский, немецкий, испанский, итальянский, китайский, русский, корейский, польский, японский, голландский, португальский, турецкий и шведский языки.
- Праздник : Пользователь может выбрать особые даты как праздники в соответствии с собственными предпочтениями. Аналогично применяется настройка праздника в меню <Расписание выхода тревоги>.
 - Например, каждый первый день года устанавливается праздником, если выбрать 3 января и установить флажок <1/3>, а если установить флажки <1/3> и <Январь 1-я Ср>, то праздниками установятся каждый первый день года и каждая первая среда января.



Использование календаря

- Выберите год и месяц. Для перехода к следующему/предыдущему году или к следующему/предыдущему 1-месячному интервалу, нажимайте на два конца кнопки <◀ ▶>.
- Выберите дату и нажмите кнопку <ОК>.
 - Когда выполняется регистрация в системном журнале, дата извлекаемых данных отображается красным.



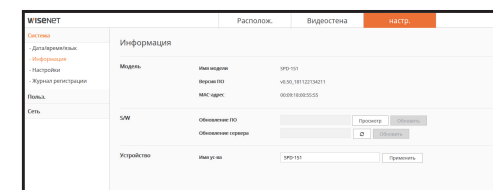
Управление системой

Можно проверить версию системы, обновить ее до новой версии, а также выполнить резервное копирование и инициализацию данных.

Проверка информации о системе

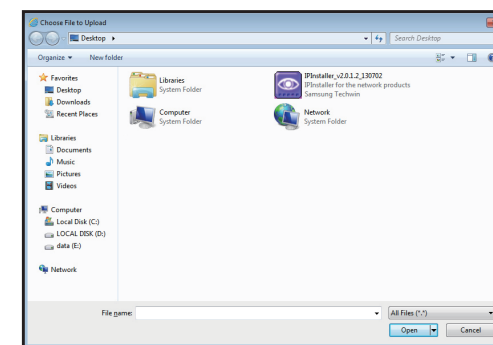
До перехода к обновлению можно проверить текущую версию ПО и MAC-адрес.

- Модель : Отображается текущая информация о системе. Значения не могут быть изменены пользователем.
- обновление ПО : Найдите файл внутреннего ПО, который нужно обновить, используя свой браузер, и выберите его для обновления.
 - При нажатии кнопки <Просмотр> появляется всплывающее окно, позволяющее выбрать файл, подлежащий отправке.
- Обновление сервера : нажмите кнопку [] для обновления сервера до нового внутреннего ПО.
- Имя устройства : Это имя, которое появляется при подключении к декодеру в программе сетевого просмотра Network Viewer.



Для того чтобы обновить текущую версию ПО

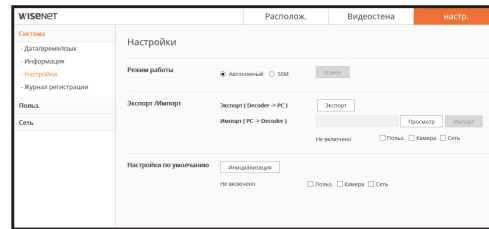
- Нажмите кнопку [Просмотр].
- Выберите ПО для обновления и нажмите кнопку [Открыть].
- Нажмите кнопку [обновить].



Настройки

Данные, заданные в декодере, можно применить также и к остальным декодерам, использующим этот носитель информации.

- Режим работы : Как способ управления видеостеной и ее конфигурацией можно выбрать режим работы <Автономный> или <SSM>. После выбора режима работы и нажатия кнопки <Измен> инициализируется соответствующий режим и перезагрузка.
 - При подключении к средству веб-просмотра в режиме SSM в нем активирована только функция <настр.>. Детальные настройки раскладки и видеостены можно задать в SSM.
 - При подключении к программе веб-просмотра в режиме SSM добавляется пункт настройки 'настр. > Устройство'. Подробную информацию см. в разделе 'Устройство' (стр. 23).
- Экспорт : Информация, установленная в декодере, сохраняется на носителе информации, подключенном к ПК.
- Импорт : К декодеру применяется информация настройки, хранящаяся на носителе информации, подключенном к ПК.
 - Снимите флажки на пунктах, которые требуется импортировать. К декодеру применяются только те пункты настроек, которые не выбраны.
 - Настройки <Экспорт> и <Импорт> должны использоваться в ПО одной и той же версии. Импортирование в файл настроек, созданный в отличающейся версии ПО, может привести к нарушениям в работе.
- Настройки по умолчанию : Можно изменить состояние настройки декодера в его первоначальное состояние. Снимите флажки на пунктах, которые требуется сбросить. К заводским установкам по умолчанию будут возвращены только те пункты, которые не были отмечены. Если выбрана <Инициализация>, появится диалоговое окно подтверждения "Настройки по умолчанию". Для инициализации возвращения системы к заводским настройкам нажмите <ОК>.



- Если сбрасывается пользователь, необходимо будет сбросить пароль.

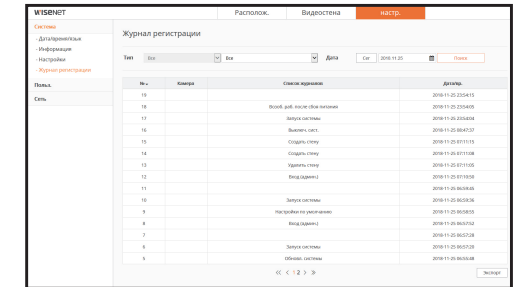
Инфо о журнале

Можно проверить хронологическую информацию, связанную с системой.

Проверка системного журнала

В системном журнале отображены записи с временными метками о каждом запуске системы, остановках системы и об изменениях системных настроек.

- Поиск дня : Щелкните по значку "Календарь" для отображения окна календаря, либо используйте кнопки направления, чтобы задать определенный период поиска в системном журнале.
 - Информацию о пользовании календарем см. в разделе "Использование календаря". (стр. 21)
- Поиск : Задайте дату и нажмите эту кнопку для отображения результата поиска в списке записей журнала.
- Тип : Если имеется слишком много записей, можно отображать только записи желаемого формата, выбрав тип.
- Экспорт : Вся регистрационная информация, записанная в декодере, сохраняется на носителе информации, подключенном к ПК.



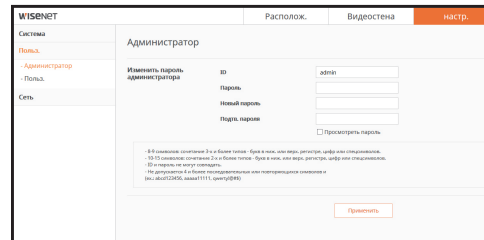
Польз.

Специальные функции или настройки привилегий в декодере можно назначить по-разному для каждого из пользователей.

Настройка администратора

Можно задать и изменить ID и пароль администратора. Администратор может использовать и устанавливать все пункты меню и все функции.

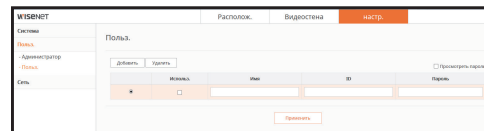
- ID: Изменение ID администратора
- Пароль : Проверяется текущий пароль.
- Новый пароль : Ввод нового пароля.
- Подтв. пароль : Подтверждается новый пароль.
 - При выборе **<Просмотр пароля>** пароль на экране будет отображаться при его вводе.



- Первоначальный ID администратора admin, а пароль необходимо сбросить при первом входе в систему.
- Для надежной защиты персональной информации и предотвращения повреждения информации злоумышленниками меняйте пароль каждые три месяца. Имейте в виду, что за проблемы безопасности и другие проблемы, вызванные недопустимым обращением с паролем, отвечает пользователь.

Добавление пользователя

1. При нажатии кнопки [**Добавить**] появляется окно добавления пользователя.
2. Установите флажок **<Использ.>** и введите имя и ID/пароль.
3. Нажмите **<Применить>**. Информация зарегистрированного пользователя сохраняется.



Удаление информации о пользователе

1. Выберите информацию о пользователе, подлежащую удалению, и нажмите кнопку [**Удалить**].
2. Выбранная запись информации о пользователе удаляется.

Доступ через учетную запись пользователя

Если войти в систему через учетную запись пользователя, то можно будет лишь изменить раскладку.

Устройство

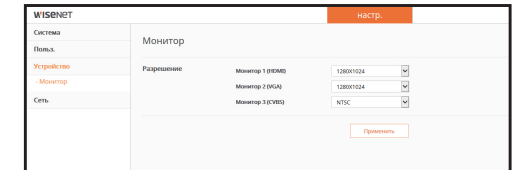
Задается разрешение выхода ПК и разрешение монитора.

- **<Устройство>** - это меню, которое отображается как пункт настройки, только когда 'Режим работы' установлен в **<SSM>**.

Настройка своего монитора

Устанавливается разрешение монитора для каждого из декодеров.

Выход HDMI поддерживает разрешения 1280x1024, 720p, 1080p, 1440p и 2160p, а выход VGA - разрешения 1280x1024, 720p и 1080p.



КОНФИГУРАЦИЯ СЕТИ

Можно задавать настройки для использования сетевой функции.

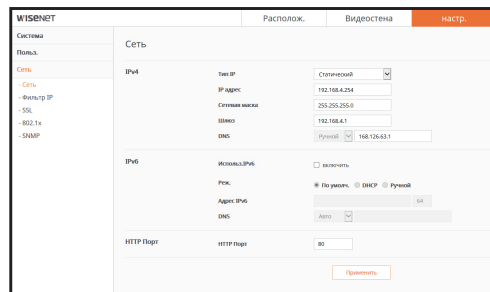
Сеть

Можно установить маршрут и протокол сетевого подключения.

Настройка сетевого соединения

Используется для подключения камеры, а также для доступа и подключения средства веб-просмотра/SSM.

- Тип IP: Выбирается тип сетевого соединения.
- IP-адрес, Маска подсети, Шлюз, DNS
<Статический>: Можно вручную ввести IP-адрес, маску подсети, шлюз и DNS.
<DHCP>: Значения IP-адреса, маски подсети и шлюза будут установлены автоматически.
<PPPoE> : Значения IP-адреса, маски подсети и шлюза будут установлены автоматически.
- ID пользователя / Пароль: Если режим подключения установлен в PPPoE, необходимо ввести "ID пользователя" и "пароль" для регистрации в PPPoE.



- Можно вручную ввести для DNS <DHCP> и <PPPoE>, если выбрано <Ручной>.

Подключение и настройка сети

Работа в сети может отличаться в зависимости от способа подключения. Перед настройкой режима подключения проверьте сетевое окружение.

Если маршрутизатор не используется

- Режим статического
 - Способ подключения к Интернету: Можно подключаться с фиксированным IP-адресом и арендованной линией, либо подключать декодер к удаленным пользователям в среде локальной сети.
 - Настройка локальной сети декодера: Установите <Сеть> в меню <Сеть> подключенного декодера в значение <Статический>.
 - Относительно IP, шлюза и маски подсети проконсультируйтесь со своим сетевым администратором.
- Режим DHCP
 - Способ подключения к Интернету: Можно подключить декодер непосредственно к кабельному модему, подключить декодер непосредственно к модему, работающему на основе DHCP, либо подключить декодер непосредственно к оптической локальной сети.
 - Настройка локальной сети декодера: Установите <Сеть> в меню <Сеть> в значение <DHCP>.

PPPoE

- Способ подключения к Интернету: Модем PPPoE подключается непосредственно к декодеру, и для соединения по протоколу PPPoE используется ID и пароль.
- Настройка локальной сети декодера: Установите <Сеть> в меню <Сеть> подключенного декодера в значение <PPPoE>.
- <ID польз.> и <Пароль> PPPoE должны быть теми же, как в информации пользователя PPPoE. Если ID и пароль вам неизвестны, проконсультируйтесь со своим провайдером услуг PPPoE .

Если используется маршрутизатор

- Во избежание конфликта со статическим IP-адресом декодера проверьте следующее.

Настройка декодера с использованием статического IP-адреса.

- Способ подключения к Интернету: Можно подключить декодер к IP-маршрутизатору, к которому подключен модем PPPoE/кабельный модем, либо декодер к IP-маршрутизатору в окружении локальной сети (LAN).

Настройка локальной сети декодера

1. Установите <Сеть> в меню подключенного декодера в значение <Статический>.
2. Проверьте, установлен ли IP-адрес в диапазоне статических IP-адресов, предоставляемых широкополосным маршрутизатором.
IP-адрес, шлюз и маска подсети: Проконсультируйтесь со своим администратором сети.
 - Проверьте, установлен ли IP-адрес в диапазоне статических IP-адресов, предоставляемых широкополосным маршрутизатором.

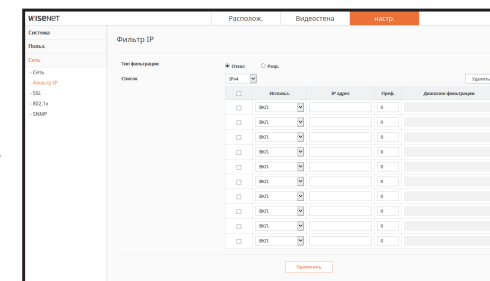
- Если сервер DHCP сконфигурирован с начальным адресом (192.168.0.100) и конечным адресом (192.168.0.200), необходимо установить IP-адрес вне сконфигурированного диапазона DHCP (192.168.0.2 ~ 192.168.0.99 и 192.168.0.201 ~ 192.168.0.254).

3. Удостоверьтесь, что адрес шлюза и маска подсети равны значениям, установленным в широкополосном маршрутизаторе.

IP-фильтрация

Можно подготовить список IP-адресов для того, чтобы разрешить или запретить доступ к отдельному IP-адресу.

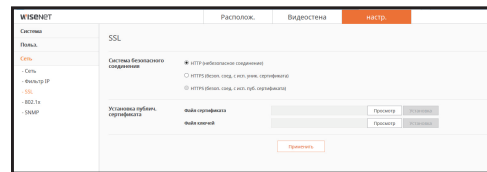
- Тип фильтрации:
 - Отказ: Если выбрано "Отклонить", доступ к зарегистрированному IP-адресу будет ограничен.
 - Разр.: Если выбрано "Разрешить", то доступ можно получить только к зарегистрированным IP-адресам.
- Исполь.: Установите флажок для IP-адреса, который будет использовать IP-фильтрацию.
- IP адрес: Введите IP-адрес для фильтрации.
- Диапазон фильтрации: Если ввести IP-адрес или префикс, отобразится диапазон заблокированных или разрешенных IP-адресов.



SSL

Можно выбрать систему безопасного соединения или установить открытые сертификаты.

- Система безопасного соединения: Можно выбрать тип системы безопасного соединения.
 - HTTP (небезопасное соединение)
 - HTTPS (Безоп. соед., с исп. уник. сертификата)
 - HTTPS (Безоп. соед., с исп. иуб. сертификата)



- ! Если оборудование декодера подключается к внешнему Интернету, либо в критичном по безопасности окружении рекомендуется использовать безопасное соединение.
- Установка публич. сертификата: Можно опрашивать и регистрировать открытые сертификаты, подлежащие установке. Если требуется использовать сертификат, необходимо установить файл сертификата наряду с криптографическим файлом.
 - Меню <HTTPS (Безоп. соед., с исп. иуб. сертификата)> можно выбрать, только если имеются зарегистрированные открытые сертификаты.

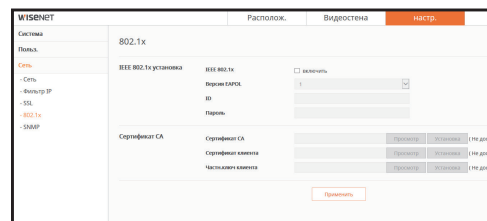
802.1x

При подключении к сети можно выбрать, использовать ли протокол 802.1x с установкой соответствующего сертификата.

802.1x - это система сертификатов для сервера и клиента. Она может гарантировать надежность характеристик противостояния взлому передаваемых/принимаемых данных в сети, вирусам или утечкам информации.

Используя эту систему, можно блокировать доступ от клиента, который не сертифицирован, разрешая связь только с сертифицированными пользователями, и таким образом, повысить уровень надежности.

- Версия EAPOL: Выберите для использования в качестве протокола версию EAPOL.
 - Некоторые коммутаторы не работают, если их установить с версией <2>. Выбирайте версию <1>.
- ID: Введите ID, предоставленный администратором сервера RADIUS:
 - Если введенный ID не соответствует ID клиентского сертификата, он будет неправильно обрабатываться.
- Пароль: Введите пароль, предоставленный администратором сервера RADIUS:
 - Если введенный пароль не соответствует паролю клиентского приватного ключа, он будет неправильно обрабатываться.
- Сертификат CA: Выбирается только если ваш открытый сертификат включает в себя открытый ключ.
- Сертификат клиента: Выбирается, если открытый сертификат включает в себя клиентский аутентификационный ключ.
- Частн.ключ клиента: Выбирается, если открытый сертификат содержит частный ключ клиента.

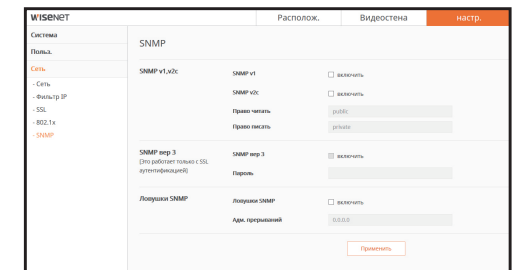


- Для успешного внедрения рабочего окружения 802.1x сетевой администратор должен использовать сервер RADIUS. Кроме того, коммутатор, подключенный к серверу, должен быть устройством, поддерживающим 802.1x.
- Если временная настройка сервера RADIUS, коммутатор и устройство NVR не соответствуют требованиям, возможно, связь между ними не будет выполняться.
- Если клиентскому частному ключу назначен пароль, администратор сервера должен подтвердить ID и пароль. ID и пароль могут быть длиной до 30 символов каждый (Он поддерживает только буквы, цифры и только 3 специальных символа "-", "_", "."). Доступ к файлам, не защищенным паролем, разрешается без ввода пароля.
- Протоколом блока декодера с поддержкой 802.1x является EAP-TLS.
- Для того, чтобы использовать 802.1x, необходимо установить все три сертификата.
- <Вкл. IEEE 802.1x> Если эта опция не выбрана, отключение может не работать, в зависимости от настроек подключенного коммутатора-концентратора. Задание настроек позволяет коммутатору-концентратору обновлять аутентификацию через регулярные интервалы времени.

SNMP

Протокол SNMP позволяет системному или сетевому администратору удаленно работать с настройками сетевого оборудования.

- Актив. SNMP v1: Используется SNMP версии 1.
- Актив. SNMP v2c: Используется SNMP версии 2.
 - Право читать: Вводятся имена членов группы, имеющих доступ только на чтение информации SNMP. По умолчанию он устанавливается как <public>.
 - Право писать: Вводятся имена членов группы, имеющих доступ только на запись информации SNMP. По умолчанию он устанавливается как <private>.
- Актив. SNMP v3: Используется SNMP версии 3.
 - Пароль: Устанавливается начальный пароль пользователя для SNMP версии 3.
- Актив. прер. SNMP: Ловушка SNMP используется, чтобы отсылать важные события и условия администратору системы.
 - Диспетчер ловушек: Введите IP адрес, на который будут отсылаться сообщения.

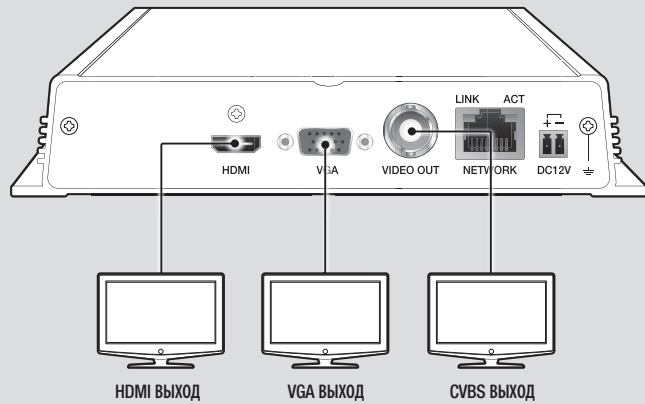


- SNMP v3 можно установить, только если установлен метод безопасного соединения в режиме HTTPS. Для получения более детальной информации обратитесь к разделу "SSL". (стр. 25)

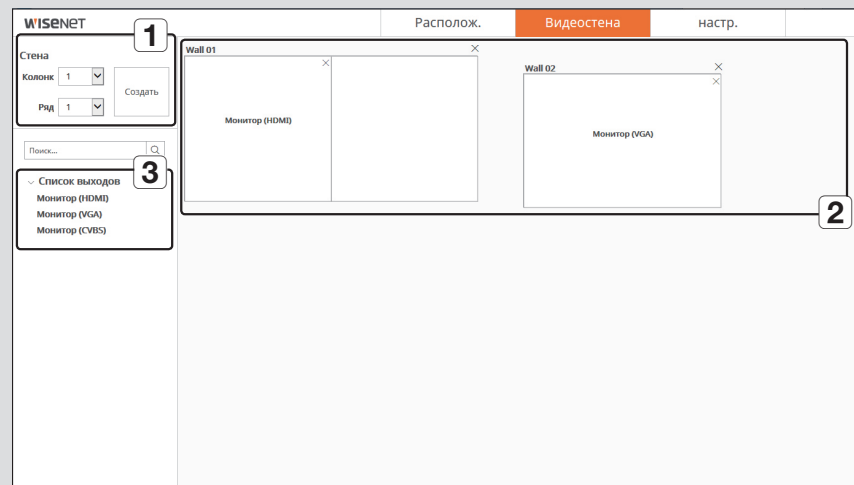
руководство по конфигурированию видеостены

РУКОВОДСТВО ПО КОНФИГУРИРОВАНИЮ ВИДЕОСТЕНЫ

1. Выходы на монитор каждого декодера после загрузки системы



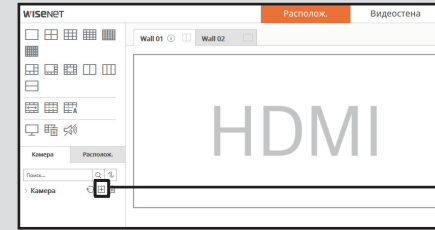
2. Конфигурирование видеостены и назначение мониторов.



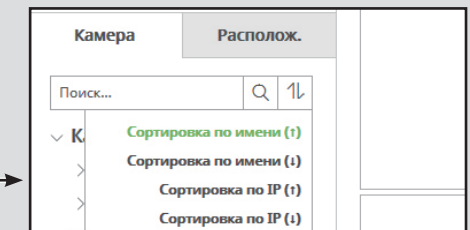
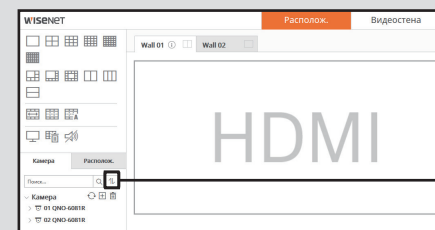
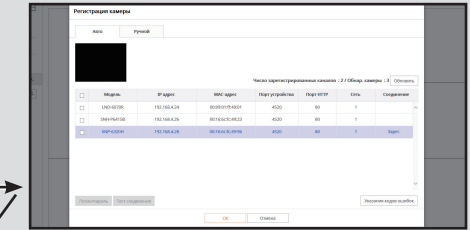
- 1 Создать видеостены.
- 2 Добавить видеостены (Стена 01 2X1, Стена 02 1X1)
- 3 Назначить мониторы.

3. Регистрация камеры

1 Добавить камеру.



2 Добавить камеры с автоматической/ручной регистрацией.



3 Выбрать функцию сортировки списка камер.

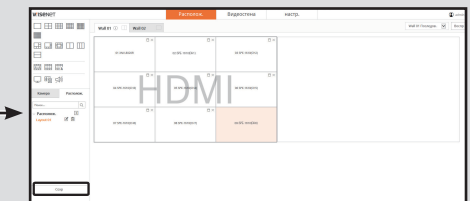
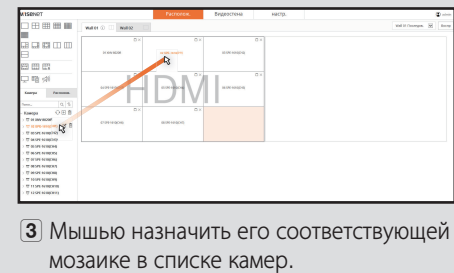
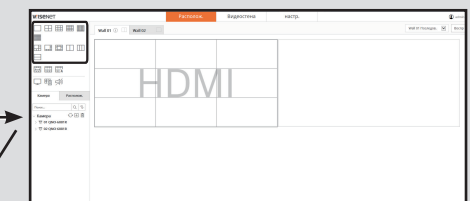
4 Сортировать по имени(t)/IP либо по возрастанию(↓)/убыванию.

4. Настройка раскладки видеостены

1 Задать монитор, применяемый в соответствующей видеостене, щелкнув по ней.



2 Выбрать и применить режим разделения к выбранному монитору. (Можно применить к каждому монитору.)



3 Мышью назначить его соответствующей мозаике в списке камер.

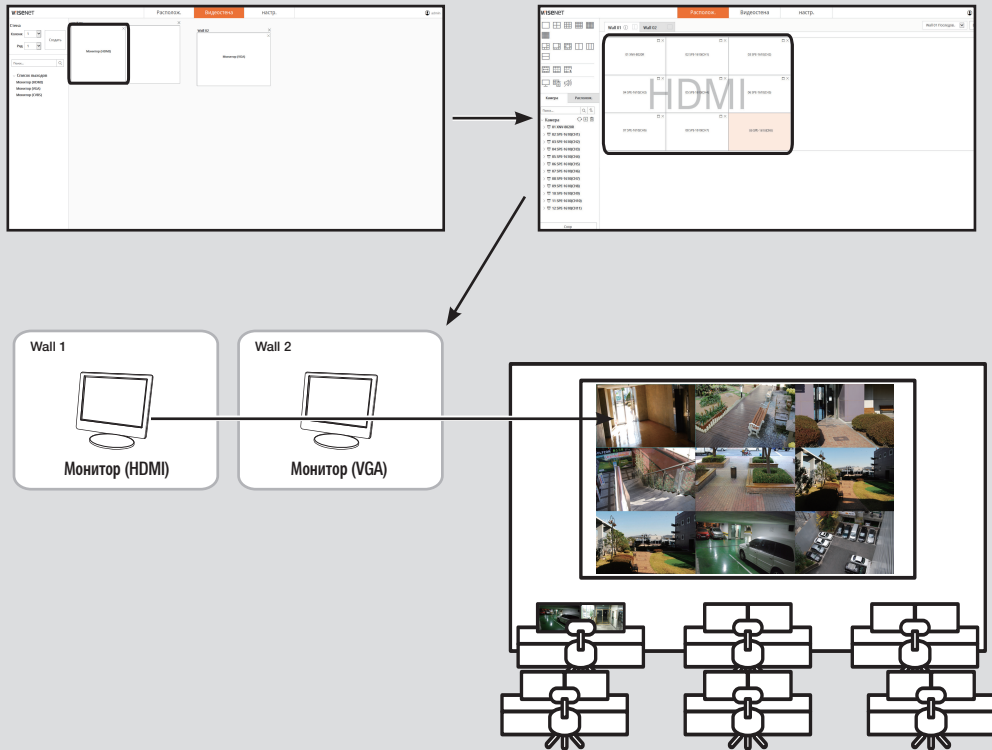
4 Для добавления нового расположения после сохранения предыдущего повторите шаги 1-4.

5. Наблюдение с помощью видеостены

1 Выберите монитор на вкладке «Стена».

2 Задайте расположение выбранного монитора на вкладке «Расположение».

- Если нажать кнопку [□], видеостена расширится на полный экран.
- Если нажать кнопку [×], увеличение видеостены изменится на исходный размер.



3 Расположение применяется в режиме реального времени.

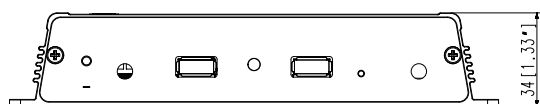
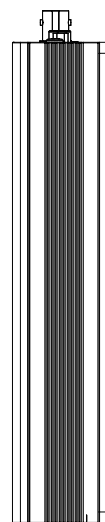
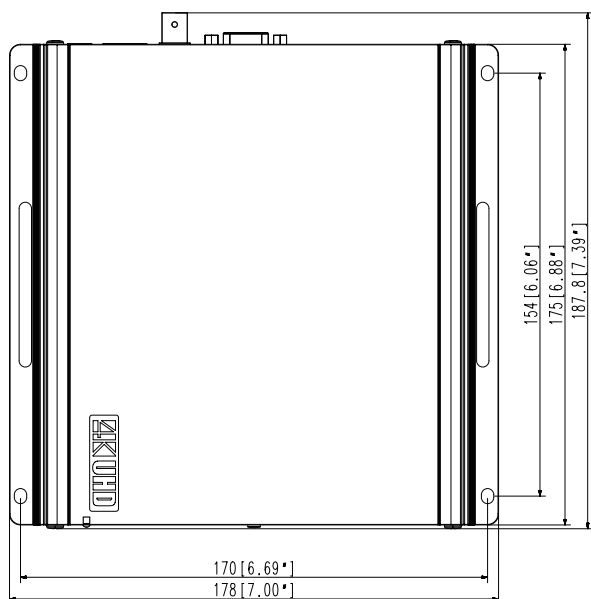
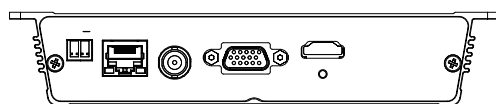
СПЕЦИФИКАЦИЯ ИЗДЕЛИЯ

Элемент		Подробные сведения	
H/W	CPU	Встроенное ЦПУ	
	Операционная система	Встроенная Linux	
	Выход видео	HDMI	1 шт. (до 4K)
		VGA	1 шт. (до 1080p)
		CVBS	1 шт.
		Формат видеовыхода	3840x2160@60HZ/30HZ(HDMI), 2560x1440@60HZ/30HZ(HDMI), 1920x1080@60HZ, 1280x1024@60H, 1280x720@60Hz
	Внешний	Ethernet	1 шт. (10/100/1000BASE-T)
		USB	USB 2.0 2шт. (резервный)
		Выход аудио	1 шт.
		LED	Питание, Сеть
	Условия эксплуатации	Рабочая температура	От +0°C до +40°C (+32°F до +104°F)
		Влажность	от 20% до 85% (относительная)
	Электропитание	Питание	12 В пост. тока, PoE (IEEE802.3af)
		Потребляемая мощность	До 21.6 Вт (12 В пост. тока), До 12.95 Вт (PoE)
	Механические характеристики	Цвет/материал	Темно серый / металл
		Размеры (ШxВxГ)	Ш178.0 x В34.0 x Г187.8mm (7.01" x 1.34" x 7.39")
		Вес	Прибл. 0,68 кг (1.50 lb)

Элемент		Подробные сведения	
S/W	Видео	Кодек	H.265/H.264/MJPEG
		Максимальные характеристики декодирования	16x2M(1080P)@30fp, 8MP@30fps
		Макс. разрешение при декодировании	до 12MP
		Макс. полоса пропускания при декодировании	200Mbps
		Разделение (монитор)	(HDMI) 1/2x2/3x3/4x4/5x5/6x6(Только 32 канала) (VGA) 1/2x2/3x3/4x4 (CVBS) 1
		Располож.	Поддерживается до 20 на монитор. Поддерживается чередование.
	Объединить	Объединение мониторов	1x2, 2x1 (HDMI+VGA)
		Объединение ячеек	Поддержка
	Аудио	Кодек	G.711/G.726/AAC
	ПО управления		Web-Viewer, SSM (Выше 2.10.3)
	OS		Windows : 7, 8.1, 10 Mac OS X : 10.10, 10.11, 10.12, 10.13
	Web Browser		Google Chrome 63, Apple Safari 11 (только для Mac OS X), MS Edge 41, MS Explorer 11
	Настройка времени		NTP/Вручную
	Экспорт/Импорт		Экспорт/импорт конфигурации
Журнал		Макс. 20000 (для системного журнала, для журнала событий отдельно)	
Протокол		SUNAPI 2.3 или более поздней версии и SVNIP	

ВИД УСТРОЙСТВА

единицы измерения: мм (дюймы)



НАСТРОЙКИ ПО УМОЛЧАНИЮ

Чтобы произвести сброс системы, перейдите к пункту “**Управление системой** > **Управление конфигурацией** > **Сброс**” и нажмите кнопку <Инициализация>.

Восстанавливает заводские настройки по умолчанию.

- При инициализации с включением <Настройки прав управления> необходимо перезагрузить камеру и сбросить пароль.
- 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.

ПОИСК И УСТРАНЕНИЕ НЕИСПРАВНОСТЕЙ

Неисправность	Меры
Прямое видео будет замедленным или с пропадающими.	<ul style="list-style-type: none"> Фактическая скорость передачи может отличаться от частоты кадров для многопоточной передачи данных, установленной для камеры или сетевой среды. Щелкните по значку OSD на левой стороне раскладки для проверки настроек конкретной камеры и частоты кадров при воспроизведении. При регистрации камеры создайте профиль с названием Live4NVR и установите HL264 800*600 30 кадров/с как настройку по умолчанию. Если Live4NVR уже имеется, можно использовать его, не изменяя своих настроек. При необходимости изменить частоту кадров в камере используйте веб-страницу камеры либо другого подключенного устройства. Если замедление или пропадания видео остались, проверьте сетевую среду или состояние камеры.
Система не включается, индикатор на передней панели не работает.	<ul style="list-style-type: none"> Проверьте подключение системы обеспечения питания. Проверьте входное напряжение системы от источника питания. Если после выполнения описанных выше действий питание по-прежнему отсутствует, проверьте или замените адаптер питания. Проверьте статус подключения кабеля PoE.
При наличии источника видеосигнала на некоторых каналах отображается только черный экран.	<ul style="list-style-type: none"> Проверьте правильность подключения к источнику питания. Проверьте подключение видеовыхода порта webviewer камеры. Проверьте, правильно ли подсоединен сетевой порт и установлена настройка сети. Замените на концентратор, поддерживающий соединения Gigabit, возможно, это позволит решить проблему.
На экране монитора циклически отображается только логотип.	<ul style="list-style-type: none"> Материнская плата неисправна, или повреждено программное обеспечение. Обратитесь в сервисный центр, чтобы специалист подробно изучил проблему.
На подключенном мониторе не воспроизводится видео.	<ul style="list-style-type: none"> Проверьте, правильно ли подсоединены к монитору необходимые кабели. Возможно, этот монитор не поддерживает выходной сигнал декодера (HDMI или VGA). (Разрешение выходного сигнала: HDMI — 720P, 1080P, 1440P, 2160P/VGA — 1280x1024, 720P, 1080P.) Проверьте разрешение экрана, поддерживаемое вашим монитором. Для передачи видео формата 4K убедитесь, что кабель поддерживает стандарт HDMI 2.0.
Камера не подсоединена или компьютеру не удается подключиться к устройству.	<ul style="list-style-type: none"> Проверьте правильность подсоединения сетевого кабеля. Убедитесь в том, что установлен режим "Сеть" - "Режим подключ.". Проверьте настройку IP компьютера или камеры. Попробуйте запустить проверку с помощью команды Ping. Проверьте, не использует ли тот же IP-адрес другое устройство, находящееся поблизости.

Неисправность	Меры
Я зарегистрировал свою камеру, но не вижу никакого видео на мониторе.	<ul style="list-style-type: none"> Проверьте, подключилась ли камера (значок соединения должен быть виден слева). Для видеостены в назначенной раскладке монитор необходимо назначить на вкладке "Видеостена".
В веб-обозревателе экраны не переключаются автоматически.	<ul style="list-style-type: none"> Убедитесь, что настройка чередования раскладки слева отмечена флажком.
Слишком яркий или слишком темный экран прямой передачи.	<ul style="list-style-type: none"> Проверьте настройки видео зарегистрированной камеры.
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```

```
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```
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```

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Version 2.1, February 1999

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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[sheepb.jpg] "Clone me," says Dolly sheepishly

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