

МОБИЛЬНЫЙ ВИДЕОРЕГИСТРАТОР

Спецификации устройства



Мобильный видеорегистратор

Спецификации устройства

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Товарный знак

Каждый из торговых знаков далее в документе является зарегистрированным. Название данного продукта и другие торговые знаки, упоминаемые в данном руководстве, являются зарегистрированными торговыми знаками соответствующих компаний.

Ограничения

Данный документ защищен авторским правом. Данный документ ни при каких обстоятельствах не разрешается воспроизводить, распространять или изменять, полностью или частично, без документально подтвержденного разрешения.

Отказ от ответственности

Компания Hanwha Vision тщательно проверяет достоверность и правильность содержимого данного документа, однако не несет официальной ответственности за представленную информацию. Пользователь несет полную личную ответственность за использование этого документа и за последующие результаты. Компания Hanwha Vision оставляет за собой право изменять содержание документа без предварительного уведомления.

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

❖ 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 Vision обладает авторским правом на данное руководство пользователя.
- Запрещается копировать данное руководство пользователя без письменного разрешения компании Hanwha Vision.
- 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

Ниже представлены технические характеристики батареи, использующейся в изделии.


- Номинальная емкость: 3mAh
- Номинальный непрерывный ток нагрузки: 0,015 mA
- Рабочая температура: -40°C ~ 85°C (-40°F ~ +176°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.

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

Если аппарат остается не используемым длительный период времени при низкой температуре от -40°C до 70°C (-40°F ~ 158°F), (TRM-1610S/1610M) / -25°C ~ 55°C (-13°F ~ 131°F), (TRM-810S/810M/410S) (когда используется промышленный SSD), время работы подогревателя увеличивается.
Поскольку рабочая температура жесткого диска от 5°C до 55°C(41°F ~ 131°F), не допускайте использования аппарата в условиях низкой температуры, что может привести к повреждению HDD.

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

Функции устройств NVR

Функция	Устройства
Вентилятор	TRM-810S, TRM-810M, TRM-410S
RAID	TRM-1610S, TRM-1610M, TRM-810S, TRM-810M
PoE	TRM-1610S, TRM-1610M, TRM-810S, TRM-810M, TRM-410S
Расширенный монитор	TRM-1610S, TRM-1610M

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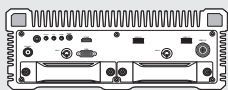
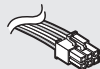
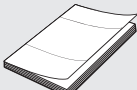
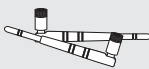
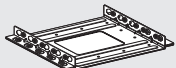






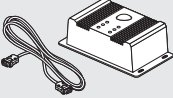

ФУНКЦИИ

- 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
 - Поддержка камер с разрешением 4K
 - 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 (TRM-1610S/1610M) и внешнего жесткого диска
 - Одновременное воспроизведение всех каналов
 - Различные режимы поиска (Время, событие, Умный поиск)
 - Различные режимы записи (обычная запись, запись события и запланированная запись, Регистрация аварии)
 - Порты входа/выхода сигнала тревоги
 - Удаленный мониторинг через Windows Network Viewer
 - Мониторинг в реальном времени сетевой камеры
 - Функция мастера установки (простая и быстрая настройка)
 - Поддержка функции архивирования по Wi-Fi
 - Функция RAID (TRM-1610S, TRM-1610M, TRM-810S, TRM-810M)


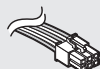







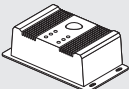
Комплект поставки

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.

TRM-1610S/1610M

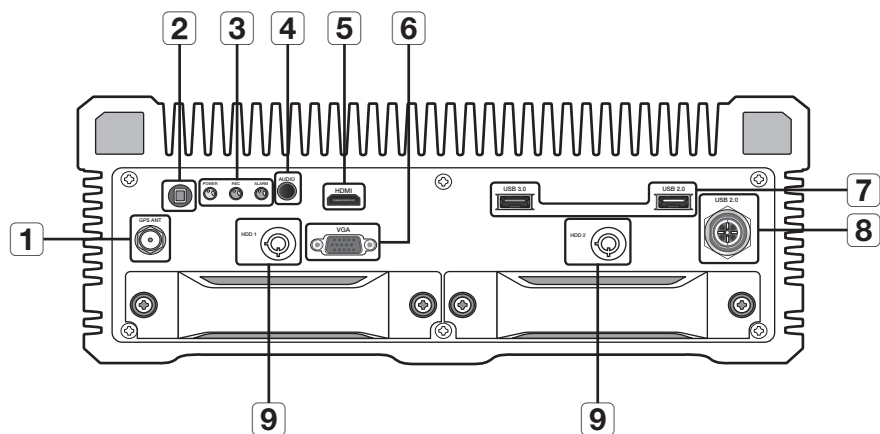
			
NVR	Кабель питания	Краткое руководство пользователя	Антенна Wi-Fi
			
Монтажный кронштейн	Винт для установки кронштейна	Крепежные винты	Винты крепления HDD
			
Ключ замка HDD	Кабель от M12 к USB	Антенна GPS	Пульт управления / Кабель подключения пульта управления
			
Кабель сигнализации			

TRM-410S/810S/810M

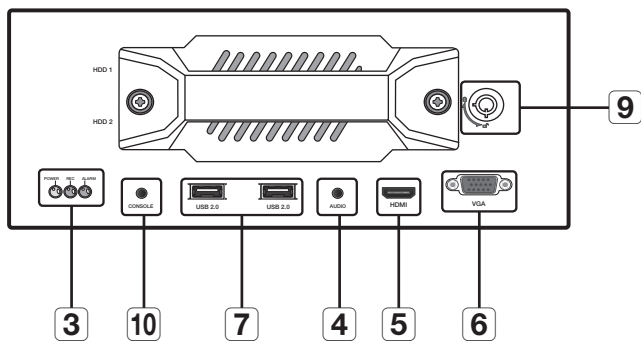
			
NVR	Кабель питания	Краткое руководство пользователя	Антенна Wi-Fi
			
Монтажный кронштейн	Винт для установки кронштейна	Крепежные винты	Винты крепления HDD
			
Ключ замка HDD	Модуль GPS	Пульт управления	

НАЗВАНИЯ И ФУНКЦИИ КОМПОНЕНТОВ (ВИД СПЕРЕДИ)

TRM-1610S/1610M



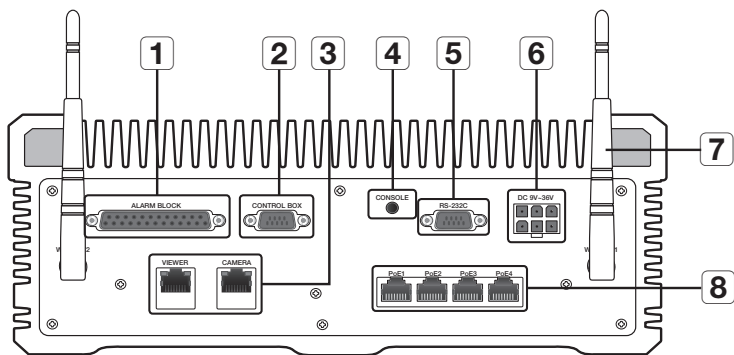
TRM-410S/810S/810M



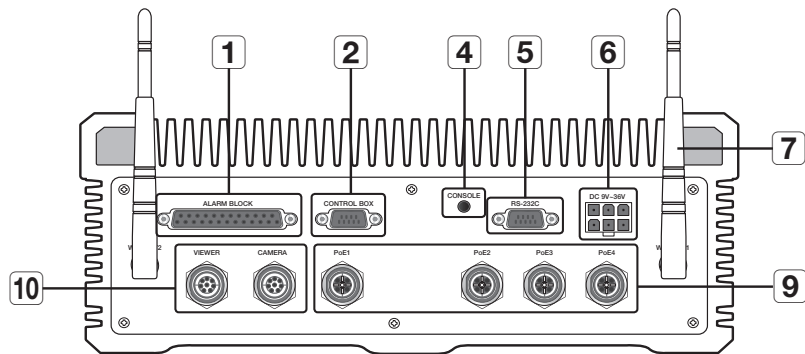
Названия компонентов	Функции
1 GPS ANT	Подключение антенны GPS.
2 Выключатель питания	Поскольку выключатель нажимного типа, он выключается при нажатии. Если же его нажать когда он включен и удерживать 5 секунд, система стабилизируется, а затем автоматически выключится (до 60 секунд). <ul style="list-style-type: none">Если желтый провод ACC на кабеле питания не подключен к питанию клеммы ACC автомобиля, питание не включится.
3 Светодиодная лампа	POWER : Показывает состояние питания Вкл./Выкл. REC : Включается, когда происходит запись. ALARM : Включается, когда наступает событие.
4 AUDIO	Это выходной разъем аудио TRM-1610S/1610M: RCA TRM-410S/810S/810M: Разъем 3,5 мм, стерео, мини
5 HDMI	Выходная клемма видео HDMI
6 VGA	Выходная клемма видео VGA
7 USB	Используется для подключения устройства USB. (USB 2.0, USB 3.0)
8 USB 2.0	Имеет тип M12, и соединяется с устройством USB.
9 Замок жесткого диска	Это замок для ограничения доступа к жесткому диску. Используется ключ, поставляемый с продуктом.
10 CONSOLE	Console предназначена для использования только при обслуживании.

НАЗВАНИЯ И ФУНКЦИИ КОМПОНЕНТОВ (ВИД СЗАДИ)

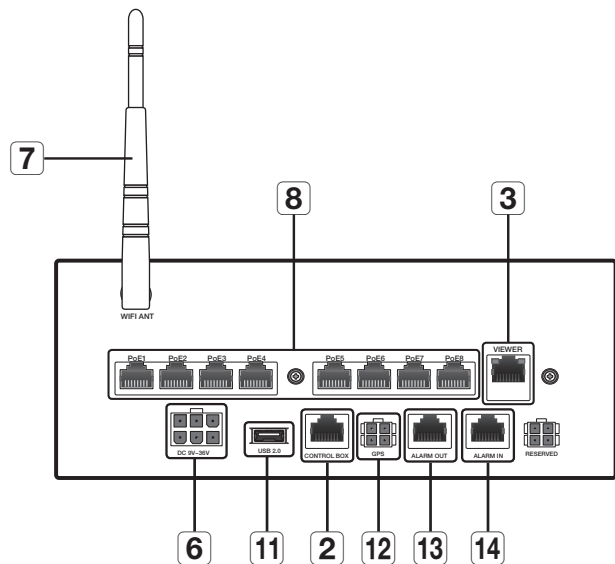
TRM-1610S



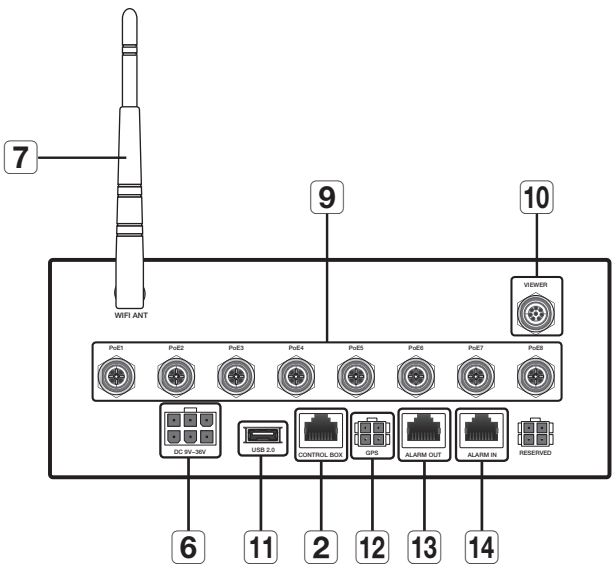
TRM-1610M



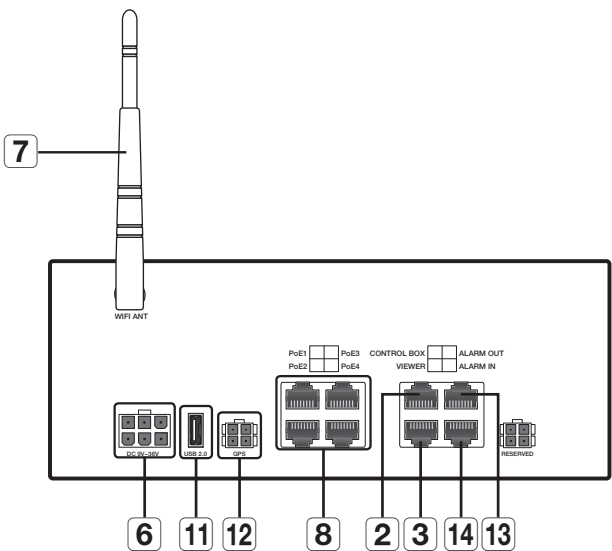
TRM-810S



TRM-810M



TRM-410S



Названия компонентов		Функции
1	ALARM BLOCK	Клемма входа/выхода сигнализации <ul style="list-style-type: none">Блок сигнализации включает в себя шесть входов и шесть выходов, и соединяется с внешними устройствами через поставляемый кабель сигнализации. Каждый из выходов представляет собой цепь с открытым коллектором.
2	CONTROL BOX	Клемма для подключения пульта управления.
3	NETWORK	VIEWER : Порт, рекомендуемый для соединения с локальной сетью, web viewer.
		CAMERA : Порт, рекомендуемый для подключения камеры, по нему принимается изображение с камеры.
4	CONSOLE	Console предназначена для использования только при обслуживании.
5	RS-232C	Клемма последовательного интерфейса.
6	DC 9V~36V	Клемма для подключения питания. Используется кабель питания, поставляемый с продуктом.
7	Wi-Fi Antenna	Антенна для использования Wi-Fi. Подключите и используйте антенну, поставляемую с продуктом.
8	PoE	Порт питания для подключения камеры. <ul style="list-style-type: none">Максимальная мощность питания от PoE1 - PoE4 составляет 32 Вт.Подключайте/устанавливайте камеры так, чтобы не превышалась мощность потребления 32 Вт.Если 32 Вт превышено, питание последнего подключенного устройства PoE отключается.Если потребление по питанию камер, подключенных к комплекту (например, PoE1 - PoE4), менее 24 Вт, камеры PoE можно подключать к обесточенным портам. В моделях TRM-810S/810M разъемы PoE 5—8 эквивалентны разъемам PoE 1—4.
9	M12 PoE	Это порт типа M12, и он служит источником питания для подключения к камере.
10	Сеть M12	Это порт типа M12, и он является клеммой для подключения к сети.
		CAMERA : Порт, рекомендуемый для подключения камеры, по нему принимается изображение с камеры. VIEWER : Порт, рекомендуемый для соединения с локальной сетью, web viewer.
11	USB 2.0	Используется для подключения устройства USB.
12	GPS	Это разъем для подключения к модулю GPS.
13	ALARM OUT	Это разъем для выхода аварийного сигнала.
14	ALARM IN	Это разъем для входа аварийного сигнала.

ПРОВЕРКА КОНТАКТОВ M12

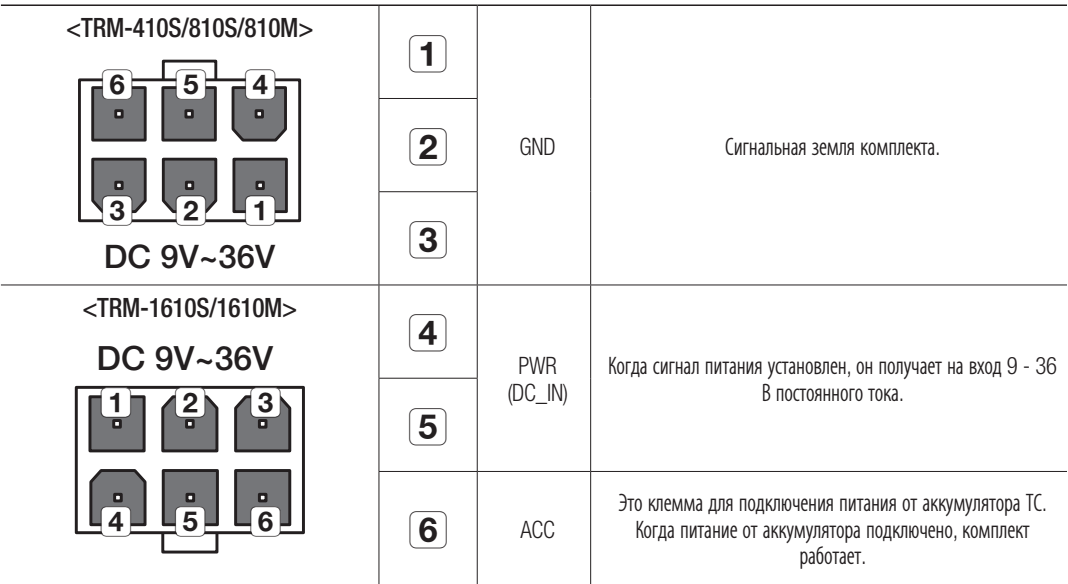
Gigabit Ethernet (M12, 8-контактный, разводка A-Code)

	1	контакт - 1	Оранжевый - Белый	TX_D1+	RJ-45, контакт 1
	2	контакт - 2	Оранжевый	TX_D1-	RJ-45, контакт 2
	3	контакт - 3	Зеленый - Белый	RX_D2+	RJ-45, контакт 3
	4	контакт - 4	Зеленый	RX_D2-	RJ-45, контакт 6
	5	контакт - 5	Коричневый - Белый	BI_D4+	RJ-45, контакт 7
	6	контакт - 6	Brown	BI_D4-	RJ-45, контакт 8
	7	контакт - 7	Синий - Белый	BI_D3-	RJ-45, контакт 5
	8	контакт - 8	Blue	BI_D3+	RJ-45, контакт 4

PoE (M12, 4-контактный, разводка D-Code)

	1	pin - 1	Оранжевый - Белый	TX_D+	RJ-45, контакт 1
	2	pin - 2	Зеленый - Белый	RX_D+	RJ-45, контакт 3
	3	pin - 3	Оранжевый	TX_D-	RJ-45, контакт 2
	4	pin - 4	Зеленый	RX_D-	RJ-45, контакт 6

СХЕМА ПОДКЛЮЧЕНИЯ СОЕДИНИТЕЛЯ ПИТАНИЯ ПОСТОЯННЫМ ТОКОМ



6

ACC

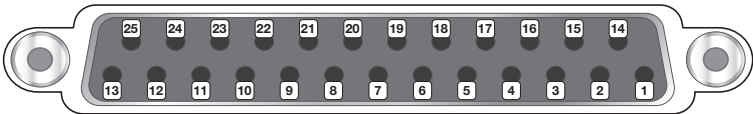
Это клемма для подключения питания от аккумулятора ТС. Когда питание от аккумулятора подключено, комплект работает.

❗ Если желтый провод ACC (аккумулятор) на кабеле питания не подключен к питанию, или к клемме аккумулятора ТС, питание не включится.

СХЕМА СОЕДИНЕНИЙ ВХОДОВ/ВЫХОДОВ СИГНАЛИЗАЦИИ

TRM-1610S/1610M

ALARM BLOCK



1	Alarm In 1	8	Alarm In 8	15	Alarm In 14	22	Alarm Out 4
2	Alarm In 2	9	Alarm In 9	16	Alarm In 15	23	Alarm Out 5
3	Alarm In 3	10	Alarm In 10	17	Alarm In 16	24	Alarm Out 6
4	Alarm In 4	11	Alarm In 11	18	GND	25	GND
5	Alarm In 5	12	Alarm In 12	19	Alarm Out 1		
6	Alarm In 6	13	Alarm In 13	20	Alarm Out 2		
7	Alarm In 7	14	GND	21	Alarm Out 3		

TRM-410S/810S/810M

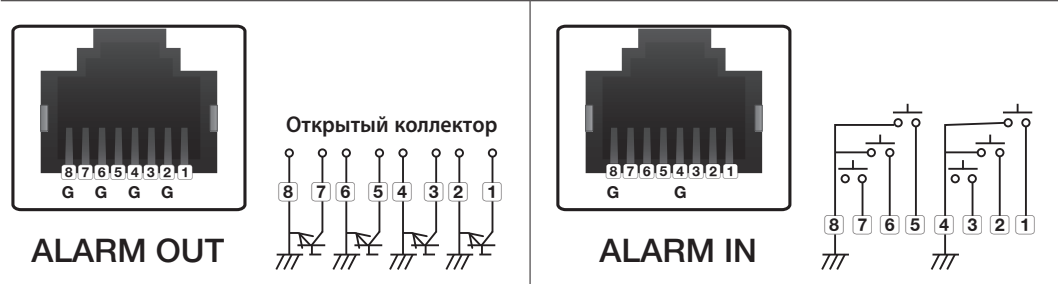
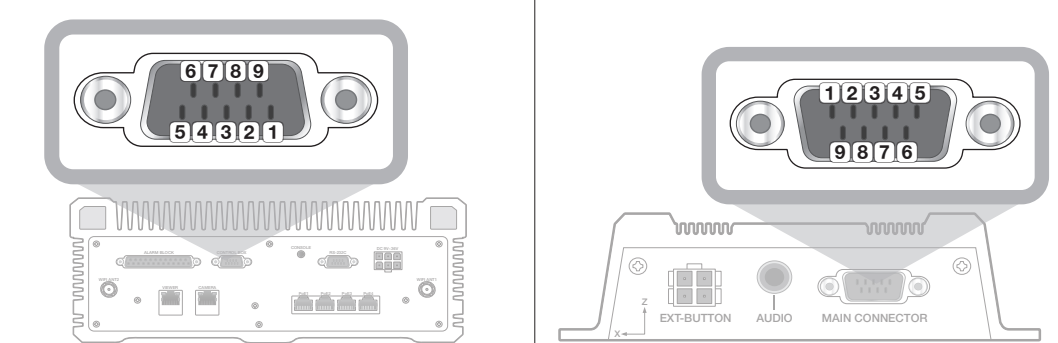


СХЕМА ПОДСОЕДИНЕНИЯ РАЗЪЕМА БЛОКА УПРАВЛЕНИЯ.

TRM-1610S/1610M



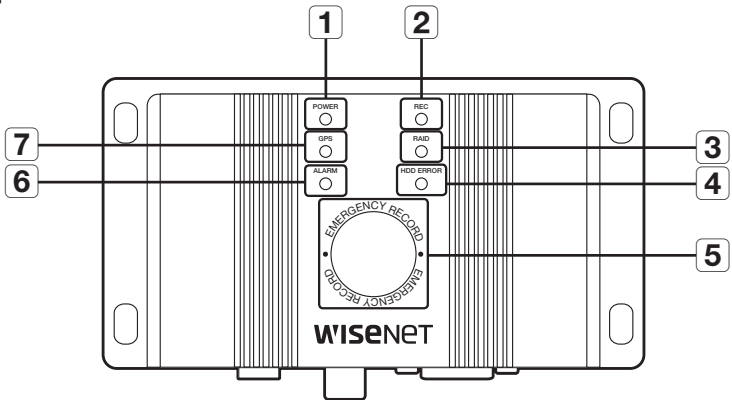
TRM-1610S/1610M			Пульт управления	
D-SUB, 9 контактов, вставной			D-SUB, 9 контактов, вставной	
Номер	Имя	Подсоединение проводов	Номер	Имя
1	ОБНАРУЖЕН КАБЕЛЬ		1	ОБНАРУЖЕН КАБЕЛЬ
2	RS-232_RXD		2	RS-232_RXD
3	RS-232_TXD		3	RS-232_TXD
4	АУДИО		4	АУДИО
5	GND		5	GND
6	GND		6	GND
7			7	
8	ОБНАРУЖЕН		8	ОБНАРУЖЕН
9	VCC_5V		9	VCC_5V

TRM-410S/810S/810M

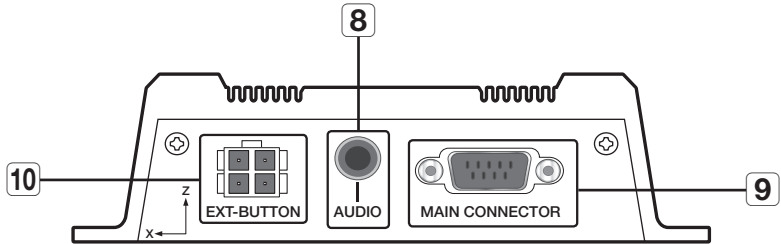
TRM-410S/810S/810M ■ Для модели TRM-810S.			Пульт управления		
RJ-45, 8 контактов			D-SUB, 9 контактов, вставной		
Номер	Имя	Подсоединение проводов	Номер	Имя	
1	VCC_5V		1	ОБНАРУЖЕН КАБЕЛЬ	
2	ОБНАРУЖЕН КАБЕЛЬ		2	RS-232_RXD	
3	ОБНАРУЖЕН		3	RS-232_TXD	
4	RS-232_TXD		4	АУДИО	
5	RS-232_RXD		5	GND	
6	GND		6	GND	
7	АУДИО		7		
8	GND		8	ОБНАРУЖЕН	
			9	VCC_5V	

НАИМЕНОВАНИЕ И ФУНКЦИЯ ПУЛЬТА УПРАВЛЕНИЯ

вид спереди



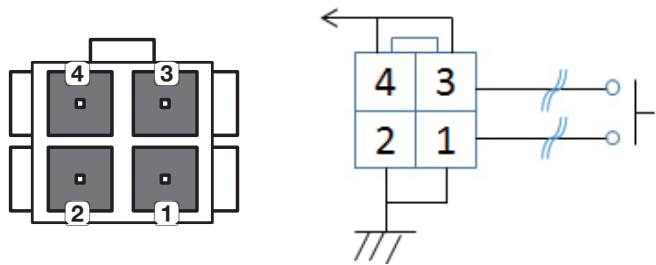
вид сзади



Названия компонентов		Функции
1	POWER	Показывает статус питания. ■ В состоянии задержки при загрузке светодиод мигает до тех пор, пока система не запустится.
2	REC	Показывает статус регистрации REC. ■ Во время аварийной записи светодиод мигает.
3	RAID	Показывает статус RAID. (Только для моделей с поддержкой RAID) ■ Когда RAID-массив в норме, светодиод горит. Светодиод мигает, когда массив RAID находится в состоянии ограниченной функциональности или повторной сборки. Светодиод не светится, когда RAID-массив не используется либо при отказе RAID.
4	HDD ERROR	Показывает ошибку HDD. ■ Светодиод светится во время проверки или замены HDD, либо при отказе RAID.

Названия компонентов		Функции
5	EMERGENCY	Выполняется аварийная запись. <ul style="list-style-type: none">Светодиод REC светится, когда происходит запись. Можно задать появление аварийного сигнала для индикации включения/отключения аварийной записи. Инструкции по настройке зуммера экстренной записи см. в разделе «Настройки» в руководстве по эксплуатации устройства.
6	ALARM	Показывает статус сигнализации.
7	GPS	Показывает статус приема GPS. <ul style="list-style-type: none">До активации приема GPS светодиод не светится. Если прием GPS в норме, светодиод светится. Если прием GPS неустойчивый, светодиод мигает.
8	AUDIO	Аудио выводится на штекер RCA.
9	MAIN CONNECTOR	Подключите к основному блоку соединительным кабелем пульта управления.
10	EXT-BUTTON	Подключите отдельный внешний переключатель для экстренной записи.

СХЕМА ПОДКЛЮЧЕНИЯ EXT-BUTTON



установка

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.
- Не перемещайте аппарат за ручку кронштейна HDD на передней части аппарата, поскольку это может привести к повреждению HDD.

ПРОВЕРКА УСЛОВИЙ ДЛЯ УСТАНОВКИ

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

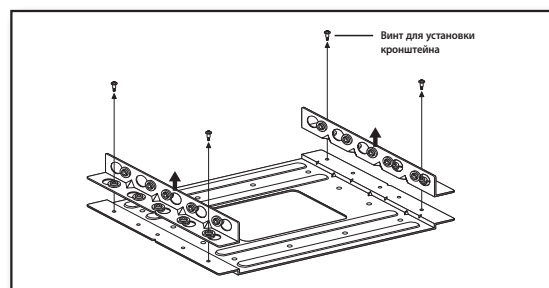
Обратите внимание, что повышенная внутренняя температура устройства может стать причиной сбоя системы или сокращения срока службы устройства (см. рисунок справа). Перед установкой устройства соблюдайте приведенные далее инструкции.



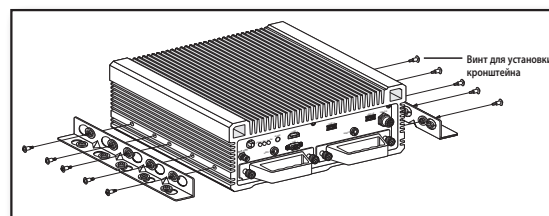
МОНТАЖ АППАРАТА

- На рисунках, приведенных ниже, изображена модель TRM-1610S.

1. Выньте монтажный кронштейн и боковые скобы.



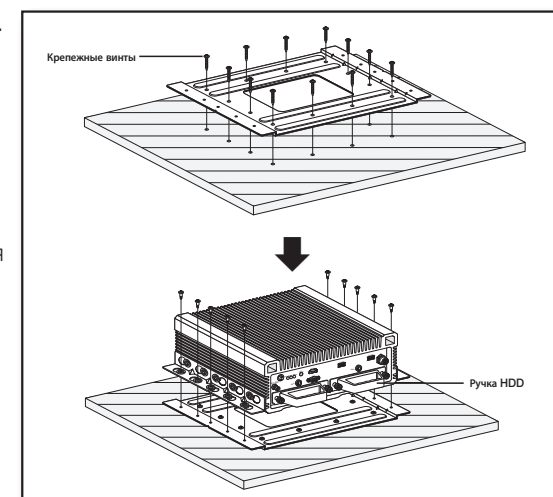
2. Притяните боковые скобы к корпусу.



3. Установите монтажный кронштейн на месте монтажа.

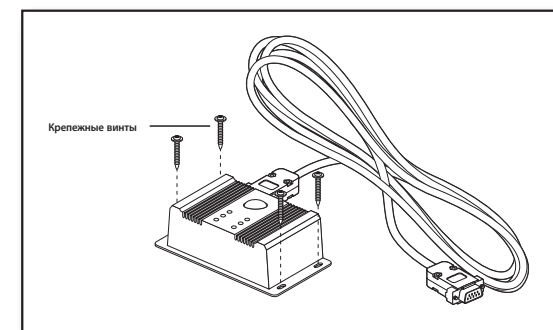
4. Вставьте главный корпус с боковыми скобами в кронштейн, установленный на шаге 3.

- При монтаже аппарата соблюдайте рабочую процедуру (шаги 1-4), обращая внимание на возможные происшествия, вызываемые падением аппарата.
- При перемещении комплекта двигайте его, придерживая ручку HDD.



МОНТАЖ ПУЛЬТА УПРАВЛЕНИЯ

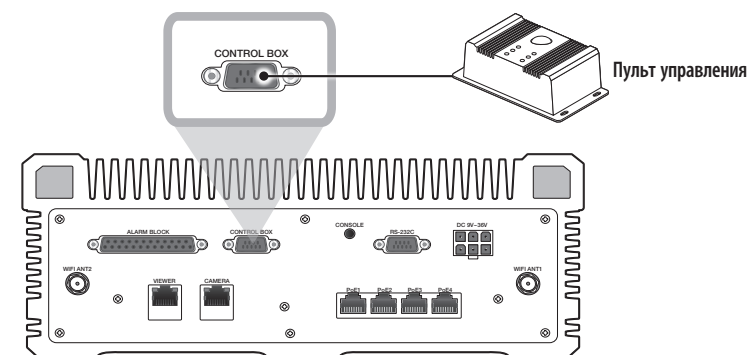
Заверните крепежные винты и установите камеру на стене/полу/потолке, как показано на рисунке.



ПОДКЛЮЧЕНИЕ ПУЛЬТА УПРАВЛЕНИЯ

Подключите к основному блоку соединительным кабелем пульта управления.

- На рисунках, приведенных ниже, изображена модель TRM-1610S.



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: 2 Жестких дисков
- Обязательно выньте кабель питания из сетевой розетки перед установкой.



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

Учите 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.

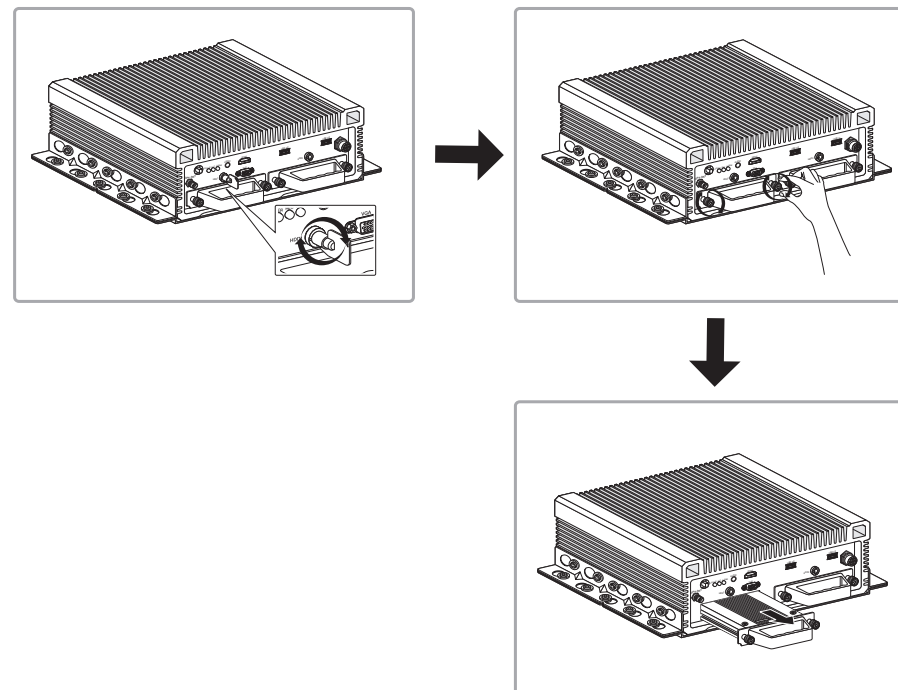
Установка жесткого диска



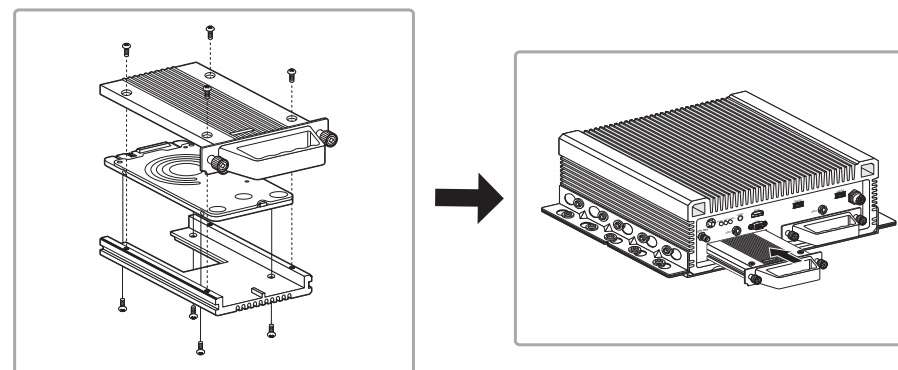
- Если к данному изделию в дополнение к первоначально установленным HDD добавляется новый или бывший в использовании HDD, перед началом использования его необходимо отформатировать в ручном режиме. Дополнительная информация о форматировании приведена в разделе «Уст-тво/формат» в руководстве по эксплуатации.

При установке жесткого диска в модели TRM-1610S/1610M

1. Отверните крепежные винты кронштейна HDD на передней части аппарата и вытяните его вперед для отделения HDD.
 - Если замок на передней части заперт, откройте его ключом, который предоставляется при покупке продукта.



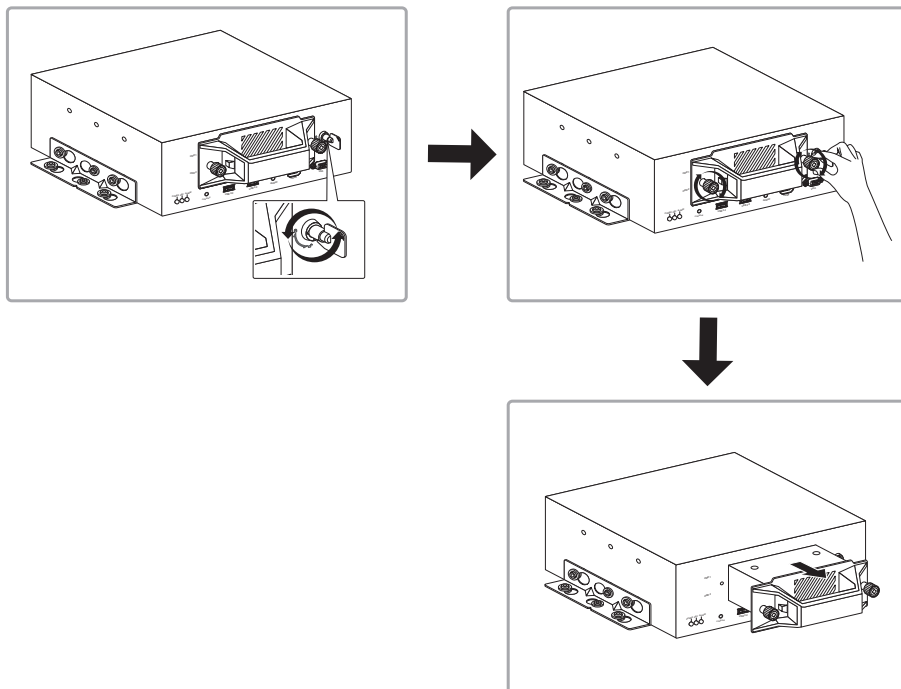
2. Отверните винты спереди/сзади кронштейна и отделите кронштейн.
3. После замены/установки HDD закрепите HDD и кронштейн винтами.
4. Вставьте кронштейн с HDD в основной корпус и затяните винты для крепления.



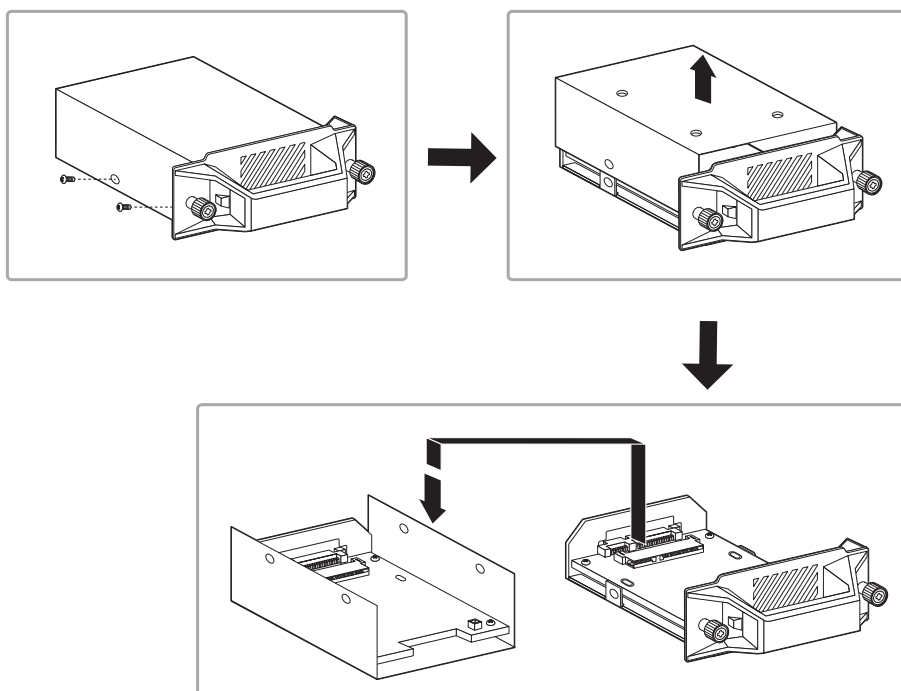
При установке жесткого диска в модели TRM-410S/810S/810M

1. Отверните крепежные винты кронштейна HDD на передней части аппарата и вытяните его вперед для отделения HDD.

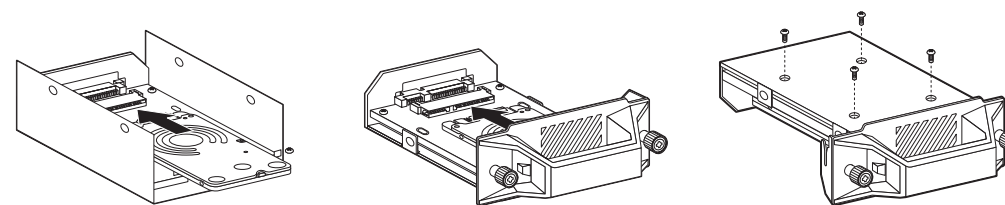
- Если замок на передней части заперт, откройте его ключом, который предоставляется при покупке продукта.



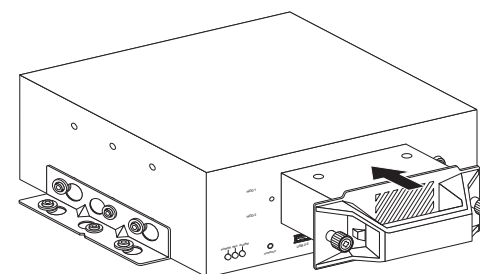
2. Извлеките винты из держателя, чтобы снять его.



3. После замены/установки HDD закрепите HDD и кронштейн винтами.



4. Вставьте кронштейн с HDD в основной корпус и затяните винты для крепления.

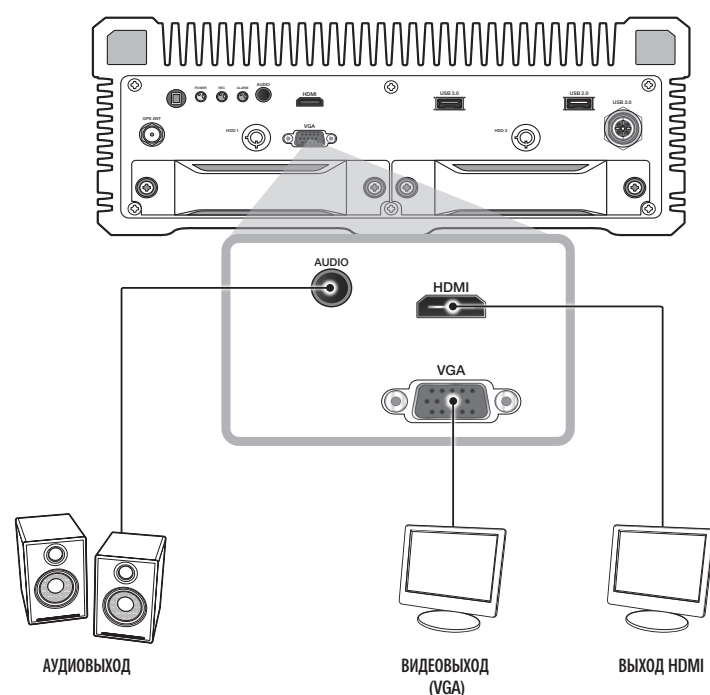


- При установке жесткого диска необходимо правильно установить разъем вентилятора.

подключение к другому устройству

ПОДКЛЮЧЕНИЕ К ВНЕШНЕМУ УСТРОЙСТВУ

- На рисунках, приведенных ниже, изображена модель TRM-1610S.

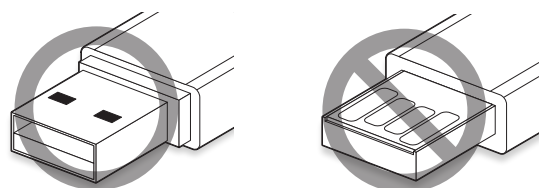


- ! ■ Отличный от номинальной мощности или неподходящий источник питания может привести к повреждению системы. Прежде чем нажать кнопку ПИТАНИЕ убедитесь, что используется источник питания номинальной мощности.

ПОДКЛЮЧЕНИЕ УСТРОЙСТВ USB

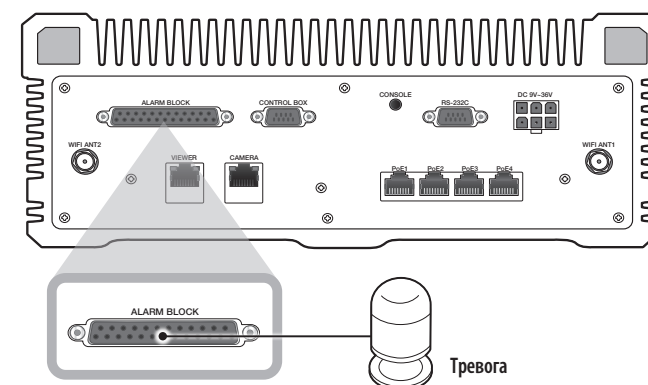
1. На передней стенке устройства имеется USB-порт.
2. К порту USB можно подключить жесткий диск USB, память USB или мышь.
3. Если жесткий диск USB подключен к системе, то его распознавание и настройки доступны в **“Меню > Настройка устройства > Устр. хранения”**.
4. Устройство поддерживает функцию "горячего" 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.

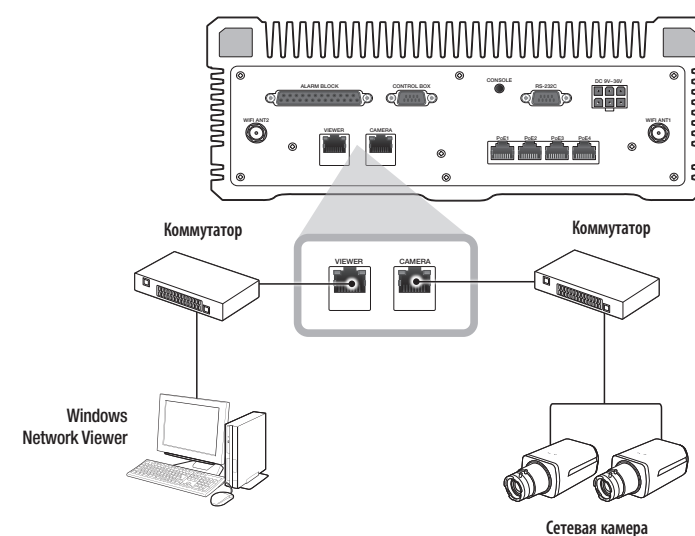


- ALARM IN 1 ~ 16: входной порт для сигнала
- ALARM OUT 1 ~ 6: выходной порт сигнала

ПОДКЛЮЧЕНИЕ СЕТИ

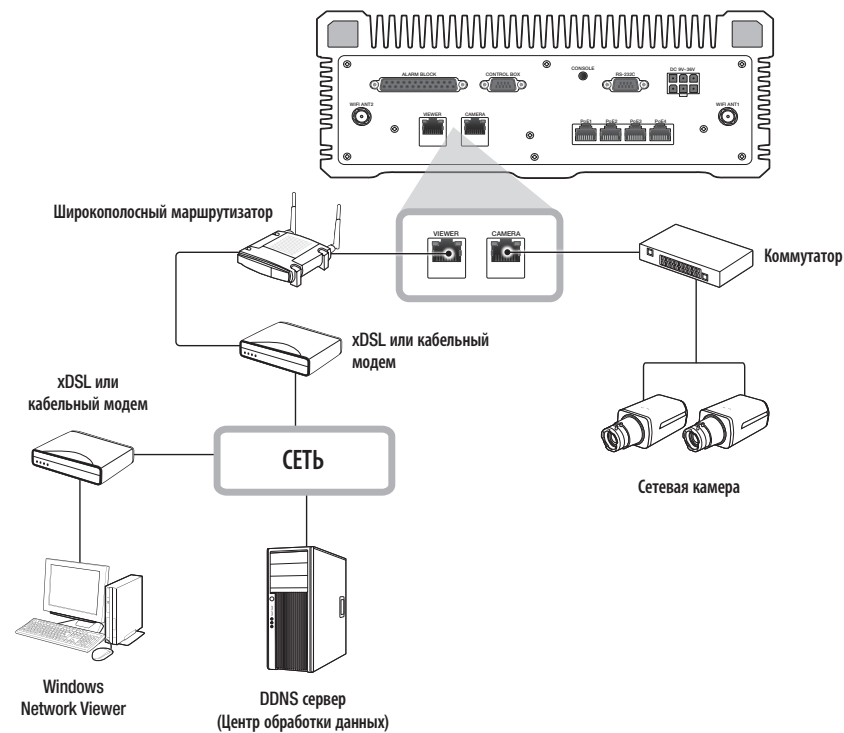
- Дополнительная информация о сетевом подключении приведена в разделе **«Конфигурация сети»** руководства по эксплуатации видеорегистратора (NVR) Wisenet.
- На рисунках, приведенных ниже, изображена модель TRM-1610S.

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

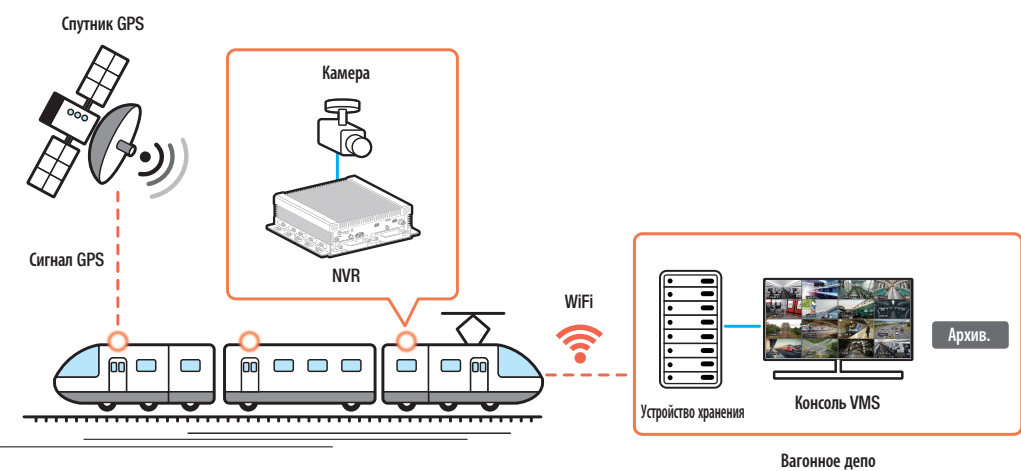


подключение к другому устройству

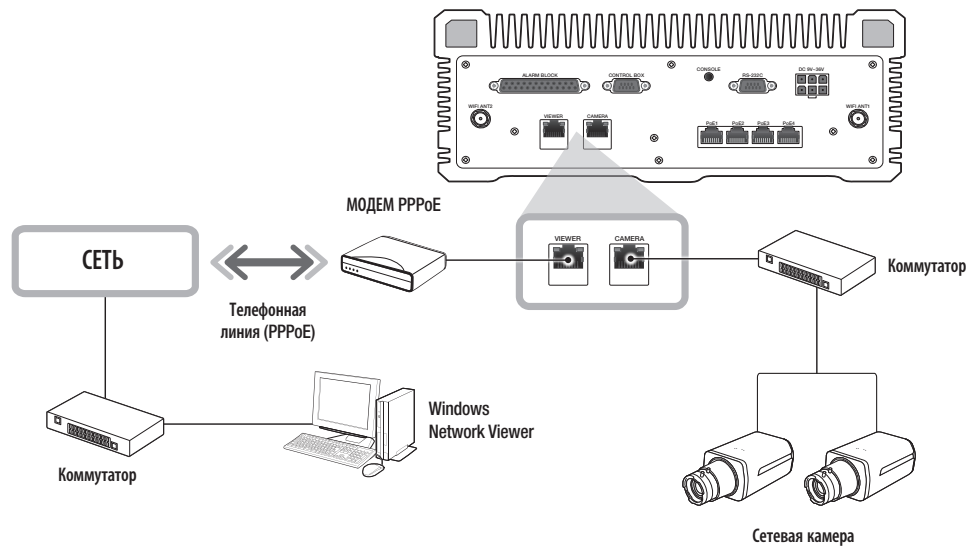
Сетевое подключение через маршрутизатор



Резервное копирование через Wi-Fi



Подключение к Интернету через PPPoE



спецификация изделия

• TRM-1610S/1610M

Элемент		Подробные сведения	
		TRM-1610S	TRM-1610M
Дисплей			
Сетевая камера	Входы	Макс. 16канала (4 PoE,RJ-45)	Макс. 16канала (4 PoE, M12)
	Разрешение	CIF ~ 12MP	
	Протоколы	SUNAPI, ONVIF	
Прямая передача	Локальный дисплей	HDMI / VGA	
	Многоканальное отображение	Локальный монитор: 1 / 2V / 3V / 4 / 6 / 8 / 9 / 13 / 16 / Авточередов. Интернет: 1 / 4 / 9 / 16 / Авточередов.	
	Характеристики	[Локальный монитор] - 12M (30fps) - 8.3M(120fps) - 1080p(480fps)	
Характеристики			
Операционная система	Встроенная	Linux	
Запись	Сжатие	H.265, H.264, MJPEG, WiseStream(H.265, H.264)	
	Полоса пропускания записи	Макс. 128МБ/с	
	Разрешение	CIF ~ 12MP	
	Тип	Обычн., Расписание (Непрерывно/Событие), Событие (До/После), Авария	
	Сохранение	Сохранение по каналам (1~400 дней)	
	Триггер события	Вход тревожного сигнала (16), событие камеры (Сенсор, детектор движения, анализ видео, Расфокусировка)	
	Действие по событию	Электронная почта, выход тревожного сигнала, зуммер, выход наблюдения, Передача в систему видеонаблюдения (VMS)	

Элемент		Подробные сведения	
		TRM-1610S	TRM-1610M
Поиск и воспроизведение	Полоса частот воспроизведения	32Мбит/с (16 каналов одновременно)	
	Польз.	До 4 пользователей (1 локальный, 3 удаленных)	
	Режим	Дата и время (календарь)/Журнал регистрации событий, Умный поиск(Вирт. линия w/direction, вход/выход)	
	Одновременное воспроизведение	Макс. 16 каналов (локальный монитор, CMS)	
Поиск и воспроизведение	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 ~ 4TB (2TB 2шт.)	
	Встроенный жесткий диск	2 SATA (замена спереди) - До 2 ТБ (HDD, режим не-RAID) - До 4 Тб (SSD, режим не-RAID)	
	RAID	RAID-1	
Резервное копирование	Резервное копирование файлов	Exe(GUI), JPG/AVI(за исключением информации GPS)(сеть)	
	Функция	Многоканальное воспроизведение (до 16 каналов), отображение даты-времени/GPS заголовка	
	Тип	Автоматически (Wi-Fi), вручную (HDD)	
	Характеристики резервного копирования по Wi-Fi	Макс. 150Mbps (IEEE802.11ac)	
Сенсор	Ввод-вывод	16/6	
Аудио	Вход	16 канала (сеть)	
	Сжатие	G.711, G.726, AAC(16/48KHz)	
	Аудиосвязь	2-сторонняя	

спецификация изделия

Элемент		Подробные сведения	
		TRM-1610S	TRM-1610M
Сеть			
Интерфейс		RJ-45 (Gigabit Ethernet x2)	M12 (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	Проводная (локальная сеть)	Макс. 256Мбит/с	
Максимальное число удаленных пользователей		Поиск (3) / Прямая одноадресная передача (10) / Многоадресный (20)	
Версия IP		IPv4	
Безопасность		Доступ через учетную запись пользователя, IP-фильтрация, 802.1x, шифрование	
Беспроводная	Wi-Fi	Внутренняя (802.11 n(2.4G)/ac(5G), двойная антенна (MIMO)	
	4G/3G	Поддержка внешнего маршрутизатора 4G/3G (Ethernet)	
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 TR, Webviewer, Wisenet mobile viewer	
	Поддержка системы управления содержимым (CMS)	Поддержка SDK/CGI(SUNAPI) для интеграции с оборудованием сторонних производителей VMS (например, Genetec)	
Функции			
Настройка камеры	Регистрация	Автоматическая, вручную	
	Элементы настройки	IP-адрес, добавление и редактирование профиля, скорость передачи в битах, сжатие, настройка обнаружения движения камерой, настройка видео с камеры (простая фокусировка, яркость/контрастность, поворот/зеркальное изображение, IRIS, WDR, день/ночь, SSNR, затвор, SSDR, DIS), режим компенсации оптического искажения камеры "рыбий глаз"/веб), настройка обзора вестибюля, веб-страница камеры, включение/отключение Wisestream	

Элемент		Подробные сведения	
		TRM-1610S	TRM-1610M
Управление камерой	Управление питанием PoE	Контроль над потреблением питания PoE/PoE+, Контроль включения/отключения каждой из камер PoE/PoE+, Удаленный сброс каждой из камер PoE/PoE+	
	Синхронизация времени	Временной протокол NVR для камеры PoE/PoE+ (синхронизация времени по NVR), синхронизация времени по GPS	
		Синхронизация времени по GPS	
PTZ	Управление	Через графический интерфейс пользователя, Webviewer	
	Предустановка	300 предустановок	
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) / Live Multicast (20)	
Управление системой		Мышь, веб-управление	
Удаленное управление (SSM-TR, ISV)	Передача метаданных	GPS, скорость (по GPS) Внутренние метаданные: Транспортная компания, тип ТС/номер / номер удостоверения/ФИО водителя	
		Проверка состояния приложений (статус, запись, событие, и т.д.)	
		Поддержка ID ТС, ФИО водителя	
Индикация/Интерфейс			
Передняя панель	Индикатор	3 светодиодных индикатора состояния: Питание 1, тревожная сигнализация 1, запись 1	
	Выключатель питания	1 шт.	
	HDMI / VGA	2 (поддерживается экран прямого видео с разделением до 16, клоны), HDMI: До 4К (3840 x 2160), VGA: до 1080p	
	USB	3 (1 x M12, 2 x USB-A), кроме M12 со встроенным модулем LTE	
	GPS/GNSS	1 шт. (SMA, F)	
	Ключ замка HDD	2шт.	

спецификация изделия

Элемент		Подробные сведения	
		TRM-1610S	TRM-1610M
Разъемы	Аудио	Выход (1 шт., линейный)	
	Управление устройствами ввода-вывода	LAN/WAN: 2 шт.(1 Гбит/с и RJ-45) Входы камер PoE: 4 шт. (100 Мбит/с и RJ-45)	LAN/WAN: 2 шт.(1 Гбит/с и M12) Входы камер PoE: 4 шт. (100 Мбит/с и M12)
	Сигнал тревоги	DB15 1 шт. (внешний пульт управления) (1) Светодиод состояния <Power/GPS/Alarm/REC/RAID/HDD ERROR> (2) Датчик удара (3) Кнопка аварийной записи (4) Выключатель питания (5) Аудиовыход	
	Сигнал тревоги	DB25 1шт. (1) Вход(16шт.) (2) Выход(6шт.)	
	Serial	Зарезервировано	
	Wi-Fi	2шт. (RP-SMA)	
	Сброс	Выключатель(1шт., Сброс питания)	
	Шнур питания	Один 6-контактный соединитель	
Система			
Управление питанием	Задержка отключения	Омин ~ 72Hrs (по выбору пользователя)	
		Поддержка отключения общего шлюза	
	Задержка запуска	0 мин. (по умолчанию) ~ 10 мин. (по выбору пользователя)	
Журнал	Список в журнале	Макс. 20,000 вводов (для системного журнала, для журнала событий отдельно)	
Условия эксплуатации			
Рабочая температура/влажность		Совместимость по TX (от -25 °C до +55 °C, от -13 °F до +131 °F, при использовании HDD) Совместимость по TX (от -40 °C до +70 °C, от -40 °F до +158 °F, при использовании промышленных SSD)	
Влажность		20% ~ 85% RH	

Элемент		Подробные сведения	
		TRM-1610S	TRM-1610M
Электропитание			
Питание		9 ~ 36V DC	
		Настройка обнаружения питания от батареи и предела низкого питания	
Потребляемая мощность		Низкая температура при запуске: 144 Вт, низкая температура при работе: 93 Вт, комнатная температура: 67 Вт (максимум)	
Ограничение PoE по мощности		Макс. 32W	
Механические характеристики			
Цвет/материал		Черный/Алюминий	
Размеры (ШxВxГ)		250мм x 99мм x 303мм (9.84" x 3.89" x 11.92")	
Вес		Около 7,5 кг (16,5 фунта, без жесткого диска)	
Стандартная разрешительная документация	Базовая	CE, FCC, cUL, KC	
	EMC	EN-55022	
	Безопасность	UL -60950-1	
	Удары/Вибрация	MIL STD-810F(SSD Terms of Use)	
	Ж/д (температура, влажность, удары, вибрация)	EN-50155	
	Ж/д (EMC)	EN-50121-3-2	
	Ж/д (EMI)	EN-50121-4	
	Ж/д (удары, вибрация)	EN-61373	
	ТС (для Европы)	e-Mark	

спецификация изделия

• TRM-410S/810S/810M

Элемент		Подробные сведения	
		TRM-410S	TRM-810S/810M
Дисплей			
Сетевая камера	Входы	Макс. 4канала (4 PoE,RJ-45)	Макс. 8канала (8 PoE) TRM-810S: Макс. 8канала (8 PoE, RJ-45) TRM-810M: Макс. 8канала (8 PoE, M12 D-Code)
	Разрешение	CIF ~ 8MP	
	Протоколы	Wisenet(SUNAPI), ONVIF	
Прямая передача	Локальный дисплей	HDMI / VGA	
	Многоканальное отображение	[Локальный монитор] 1 / 2H / 2V / 3V / 4 / Авточередов. [Интернет] 4 / Авточередов.	[Локальный монитор] 1 / 2H / 2V / 3V / 4 / 6 / 8 / 9 / Авточередов. [Интернет] 1 / 4 / 9 / 1+5 / 1+7 / 2H / 2V / 3V / 6 / 12 / Авточередов.
	Характеристики	[Локальный монитор] 8MP(60fps), 5MP(90fps), 3MP(120fps), 2MP(120fps), 720p(120fps), D1(120fps)	
Характеристики			
Операционная система	Встроенная	Linux	
Запись	Сжатие	H.265, H.264, MJPEG, WiseStream(H.265, H.264)	
	Полоса пропускания записи	Макс. 50МБ/с	Макс. 80МБ/с
	Разрешение	CIF ~ 8MP	
	Тип	Обычн., Расписание (Непрерывно/Событие), Событие (До/После), Авария	
	Сохранение	Сохранение по каналам (1~400 дней)	
	Триггер события	Вход тревожного сигнала (б), событие камеры (Сенсор, детектор движения, анализ видео, Расфокусировка), G-Sensor(3 Axis)	
	Действие по событию	Электронная почта, выход тревожного сигнала, зуммер, выход наблюдения	

Элемент		Подробные сведения	
		TRM-410S	TRM-810S/810M
Поиск и воспроизведение	Полоса частот воспроизведения	32МБит/с (4 каналов одновременно)	32МБит/с (8 каналов одновременно)
	Польз.	До 4 пользователей (1 локальный, 3 удаленных)	
	Режим	Дата и время (календарь)/Журнал регистрации событий, Умный поиск(Вирт. линия w/direction, вход/выход)	
	Одновременное воспроизведение	Макс. 4 каналов (локальный монитор, CMS)	Макс. 8 каналов (локальный монитор, CMS)
Поиск и воспроизведение	Разрешение	CIF ~ 8MP	
	Компенсация оптического искажения камеры "рыбий глаз"	Web / CMS	
	Управление воспроизведением	Ускоренно/Медленно вперед/Назад, перемещение на один шаг вверх/вниз	
Накопитель	Встроенный	Без жесткого диска (поддерживается установка двух дисков на лоток)	
	Встроенный жесткий диск	2 SATA (замена спереди) - До 2 Тб (HDD, режим не-RAID) - До 4 Тб (SSD, режим не-RAID)	
	RAID	-	RAID-1
Резервное копирование	Резервное копирование файлов	Exe(GUI), JPG/AVI(за исключением информации GPS)(сеть)	
	Функция	Многоканальное воспроизведение (до 4 каналов), отображение даты-времени/GPS заголовка	Многоканальное воспроизведение (до 8 каналов), отображение даты-времени/GPS заголовка
	Тип	Автоматически (Wi-Fi), вручную (HDD/SSD)	
	Характеристики резервного копирования по Wi-Fi	Макс. 50МБ/с	Макс. 80МБ/с
Сенсор	Ввод-вывод	6/4	
Аудио	Вход	4 канала (сеть)	8 канала (сеть)
	Сжатие	G.711, G.726, AAC(16/48KHz)	
	Аудиосвязь	2-сторонняя	

спецификация изделия

Элемент		Подробные сведения	
		TRM-410S	TRM-810S/810M
Сеть			
Интерфейс		RJ-45 (Fast Ethernet x1)	TRM-810S: RJ-45 (Gigabit Ethernet x1) TRM-810M: M12 A-Code (Gigabit Ethernet x1)
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	Проводная (локальная сеть)	Макс. 50Мбит/с	Макс. 80Мбит/с
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	
Беспроводная	Wi-Fi	Internal (802.11 ac(5G), 1T1R	
	4G/3G	Поддержка внешнего маршрутизатора 4G/3G (Ethernet)	
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 Transportation, Webviewer	
	Поддержка системы управления содержимым (CMS)	Поддержка SDK/CGI(SUNAPI) для интеграции с оборудованием сторонних производителей VMS	

Элемент		Подробные сведения	
		TRM-410S	TRM-810S/810M
Функции			
Настройка камеры	Регистрация	Автоматическая, вручную	
	Элементы настройки	IP-адрес, добавление и редактирование профиля, скорость передачи в битах, сжатие, настройка обнаружения движения камерой, настройка видео с камеры (простая фокусировка, яркость/контрастность, поворот/зеркальное изображение, IRIS, WDR, день/ночь, SSNR, затвор, SSSR, DIS), режим компенсации оптического искажения камеры "рыбий глаз"/веб), настройка обзора вестибюля, веб-страница камеры, включение/отключение Wisestream	
Управление камерой	Управление питанием PoE / PoE+	Контроль над потреблением питания PoE/PoE+, Контроль включения/отключения каждой из камер PoE/PoE+, Удаленный сброс каждой из камер PoE/PoE+	
	Синхронизация времени	Временной протокол NVR для камеры PoE/PoE+ (синхронизация времени по NVR)	
		Синхронизация времени по GPS	
PTZ	Управление	Через графический интерфейс пользователя, Webviewer	
	Предустановка	300 предустановок	
Управление системой		Мышь, веб-управление	
Индикация/Интерфейс			
Передняя панель	Индикатор	3 светодиодных индикатора состояния: Питание 1, тревожная сигнализация 1, запись 1	
	Выключатель питания	-	
	Аудио	Выход (1 шт., линейный)	
	HDMI / VGA	2 (поддерживается экран прямого видео с разделением до 9, клоны), HDMI: До 4K (3840 x 2160), VGA: до 1080p	
	USB	3шт. (вид спереди 2, вид сзади 1)	
	GPS/GNSS	Micro Fit, 4 контакта	
	Ключ замка HDD	1 шт.	

спецификация изделия

Элемент		Подробные сведения	
		TRM-410S	TRM-810S/810M
Разъемы	Управление устройствами ввода-вывода	ПРОСМОТР: 1 шт. (100 Мб/сек., RJ-45) Вход PoE камеры: 4шт. (100 Мб/сек./RJ-45)	ПРОСМОТР: 1 шт. (1000 Мб/сек., RJ-45) Вход PoE камеры: 8шт. (100 Мб/сек./RJ-45)
	Сигнал тревоги	RJ-45 1ea (внешний блок управления) (1) индикатор статуса (2) G-датчик (3 оси) (3) кнопка экстренной записи (4) выключатель питания (5) выход аудио	
	Сигнал тревоги	(1) Вход(6шт.) (2) Выход(4шт.)	
	Serial	1 RS-232C(Зарезервировано)	
	Wi-Fi	1 шт. (RP-SMA, F)	
	Сброс	Выключатель(1шт., Сброс питания)	
	Шнур питания	Один 6-контактный соединитель	
Управление питанием	Задержка отключения	Макс. 72 часа (выбирается пользователя)	
		Поддержка отключения общего шлюза	
	Задержка запуска	0 сек. (по умолчанию) — 10 мин. (выбирается пользователем)	
Журнал	Список в журнале	Макс. 20,000 вводов (для системного журнала, для журнала событий отдельно)	
Условия эксплуатации			
Рабочая температура		-25 °C до +55 °C(-13 °F до +131 °F) : HDD installed	
Влажность		20% ~ 85% RH	

Элемент	Подробные сведения	
	TRM-410S	TRM-810S/810M
Электропитание		
Питание	9 ~ 36V DC	
	Настройка обнаружения питания от батареи и предела низкого питания	
Потребляемая мощность	DC : Макс. 83W	DC : Макс. 122W
Ограничение PoE по мощности	Макс. 32W	Макс. 64W
Механические характеристики		
Цвет/материал	Черный/СТАЛЬ	
Размеры (ШxВxГ)	210мм x 80мм x 250мм (8.27" x 3.15" x 9.84")	
Вес	Около 3,4 кг (7,5 фунта, без жесткого диска)	
Стандартная разрешительная документация		
General	CE, FCC, UL	
Special	EN-50155 (Rail Shock/Vib) EN-50121-3 (Railway EMC) EN-61373 (Railway Safety)	

спецификация изделия

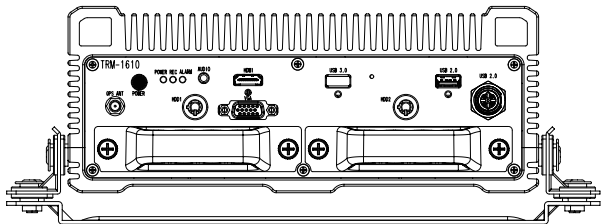
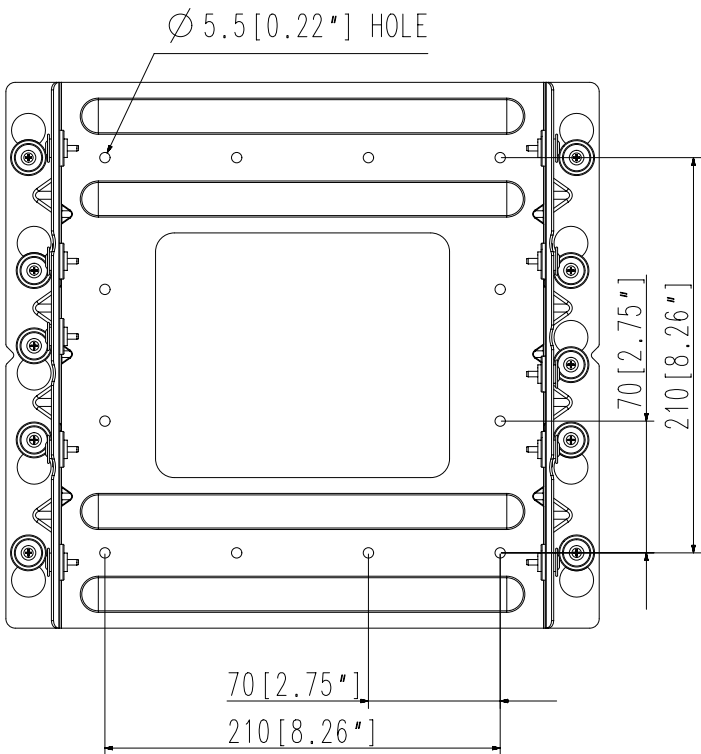
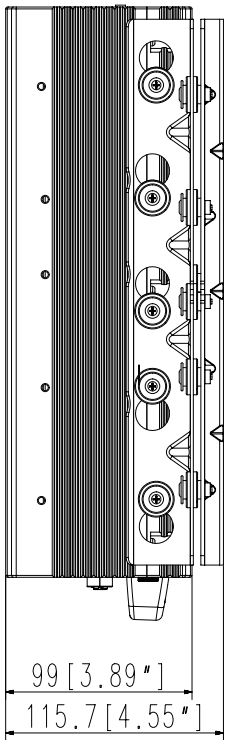
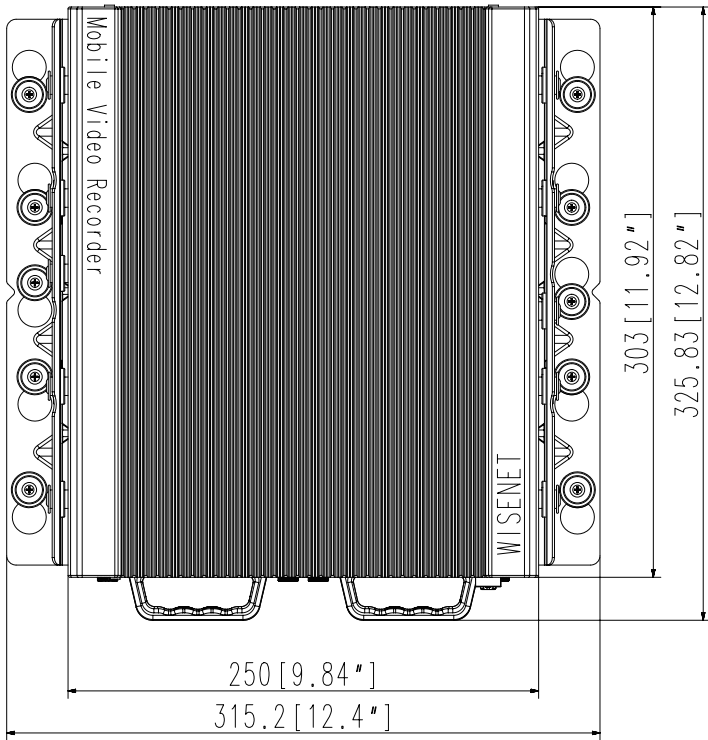
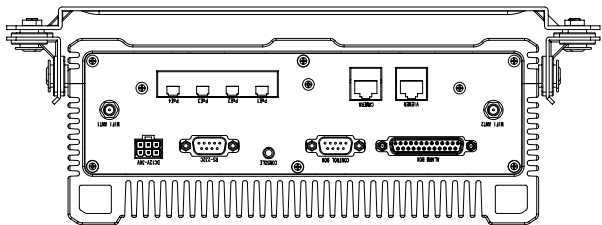
• Пульт управления

Элемент		Подробные сведения
Индикация/Интерфейс		
Передняя панель	Индикатор	6 светодиодных индикатора состояния: POWER, GPS, ALARM, REC, RAID, HDD ERROR
	Тревожная кнопка	1 шт.
Разъемы	Аудио	Выход (1 шт., RCA, линейный)
	Выключатель питания	-
	Разъем ВНЕШНЕГО коммутатора	1 шт. (Micro Fit, 4 контакта)
	Основной вход/выход	1 шт. (DB9)
Механические характеристики		
Цвет/материал		Черный/Алюминий
Размеры (ШхВхГ)		Около 118 x 29.2 x 70мм (4.64" x 1.15" x 2.75")
Вес		Около 0.2кг (0.4lb)

Вид устройства

• TRM-1610S

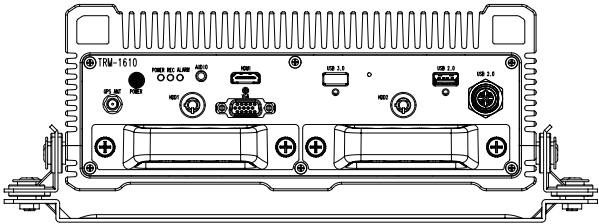
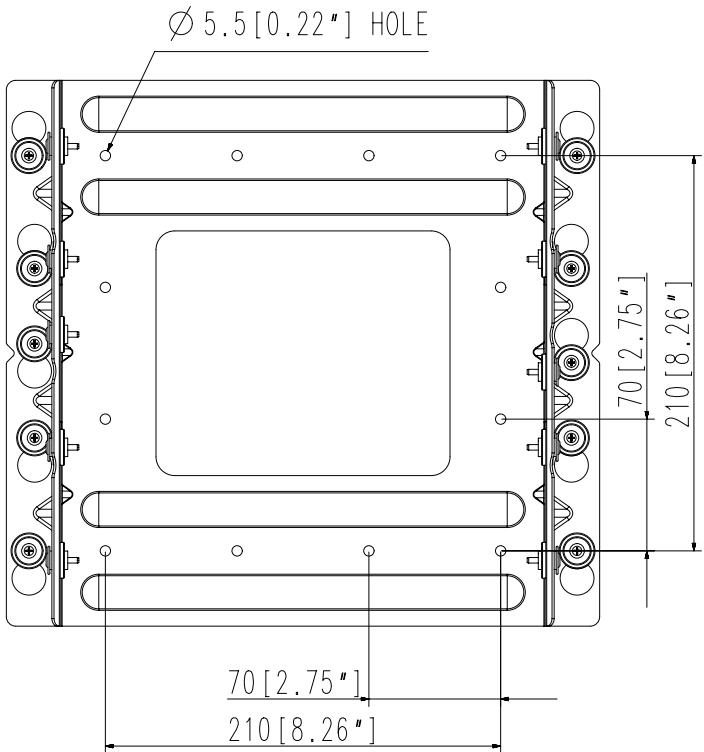
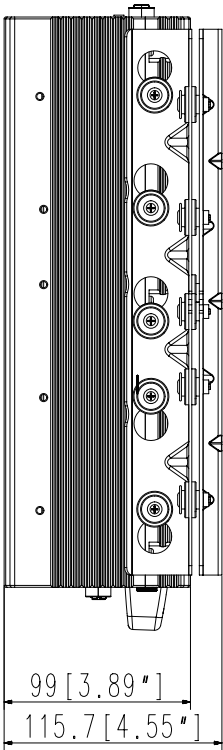
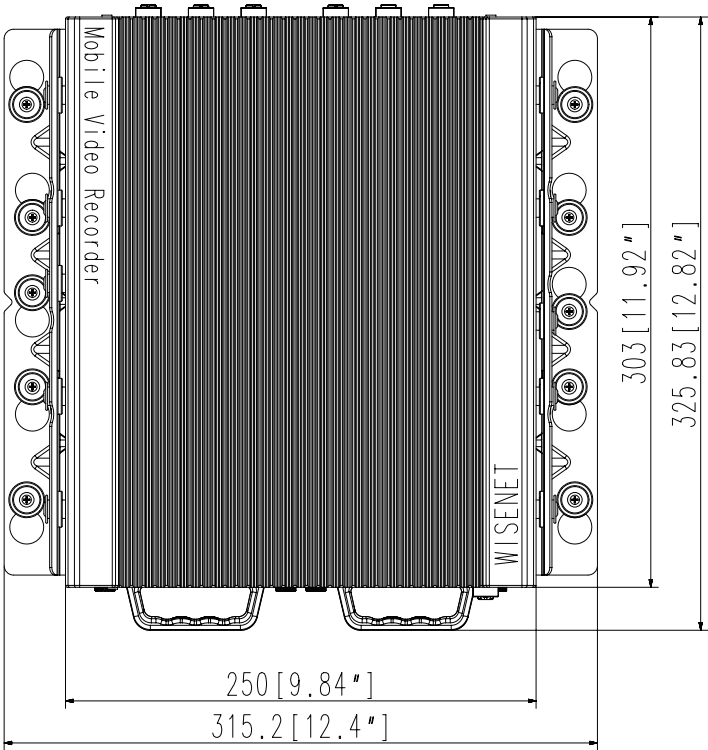
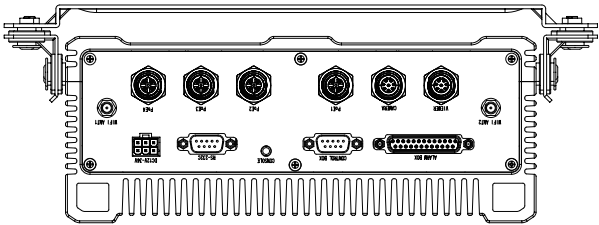
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вид устройства

• TRM-1610M

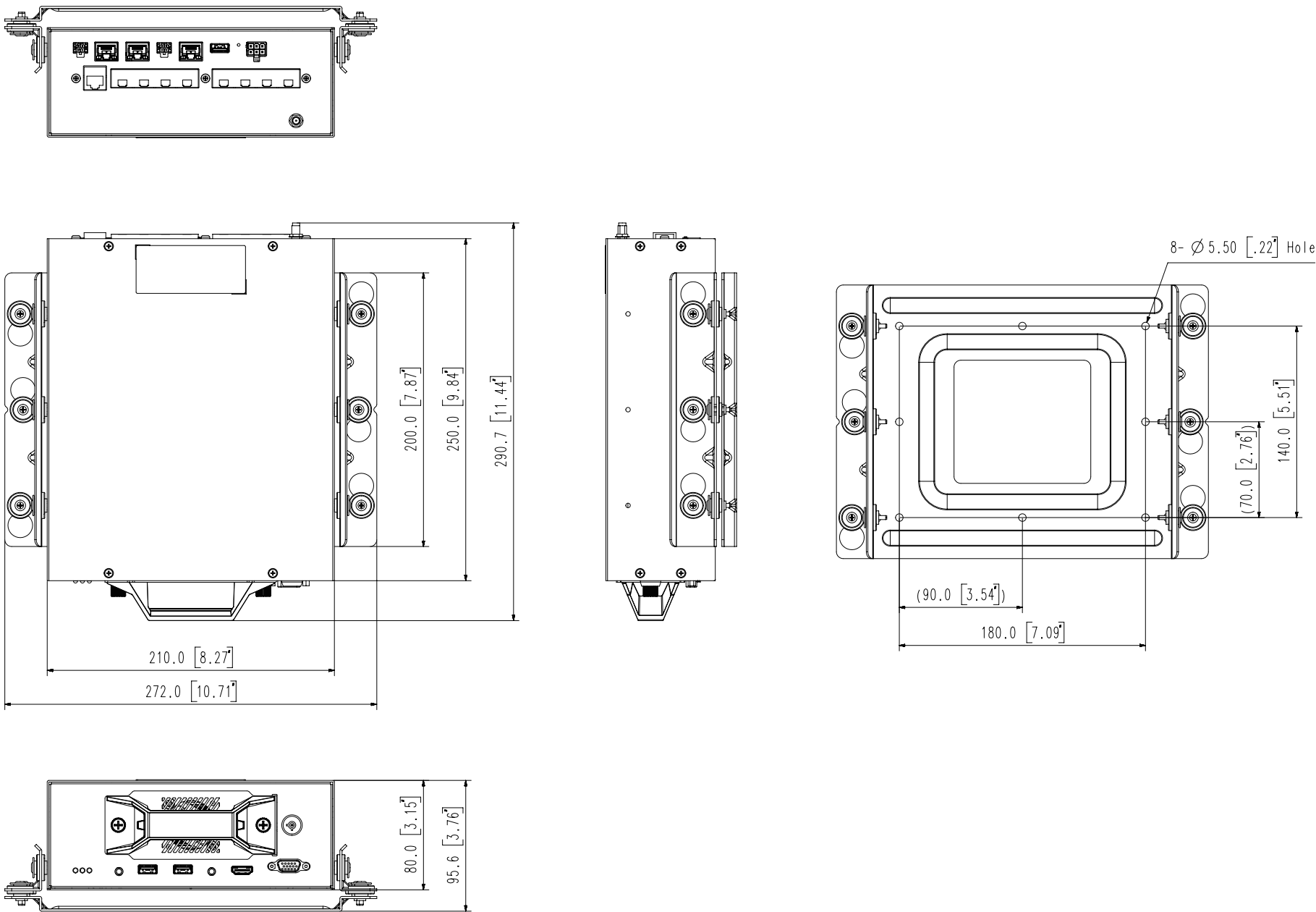
единицы измерения: мм (дюймы)



Вид устройства

• TRM-810S

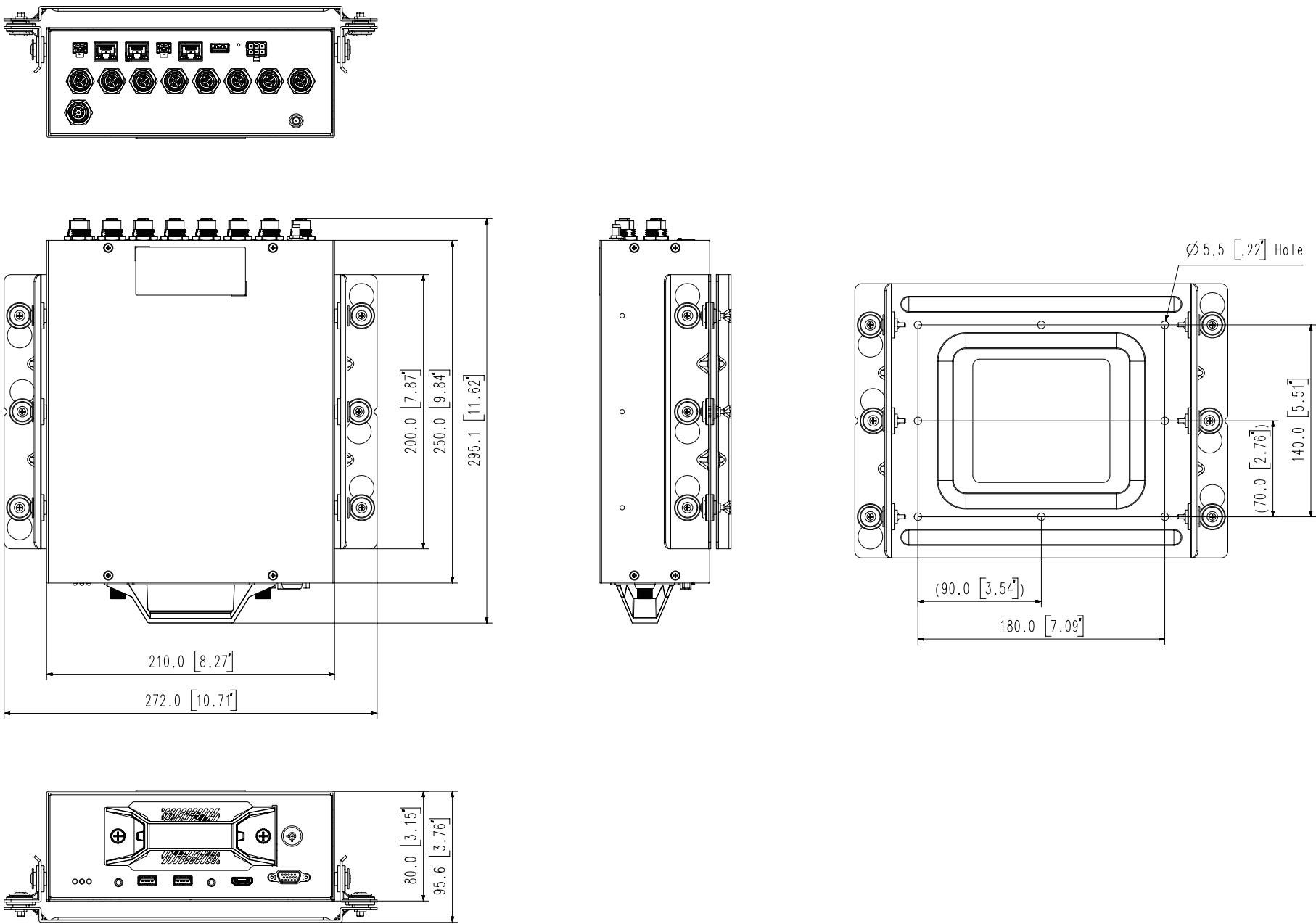
единицы измерения: мм (дюймы)



вид устройства

• TRM-810M

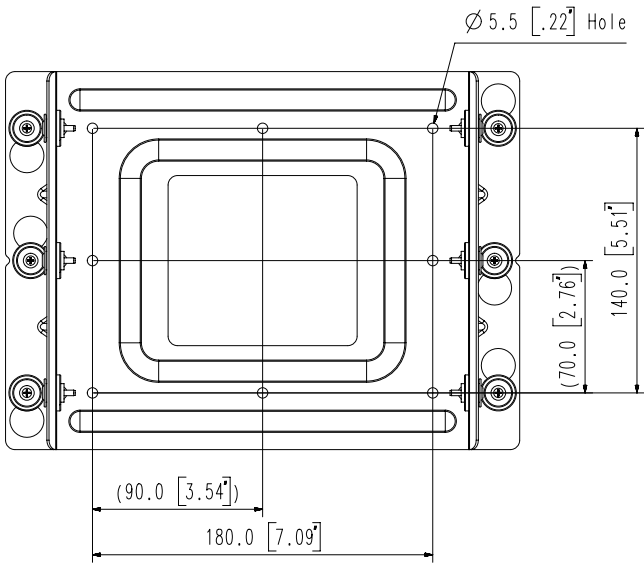
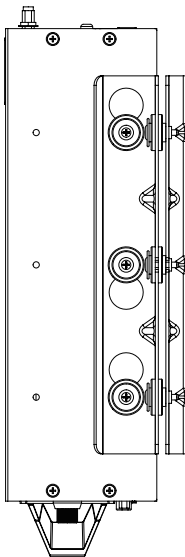
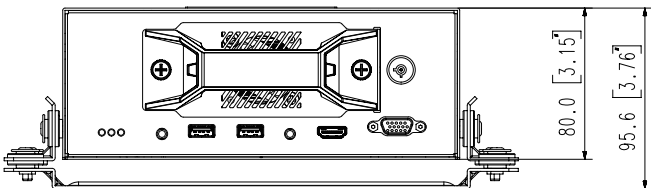
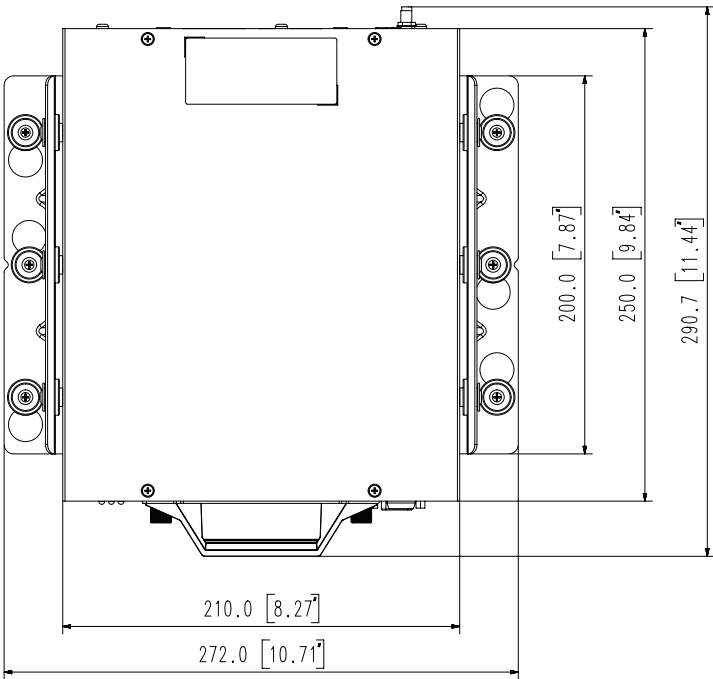
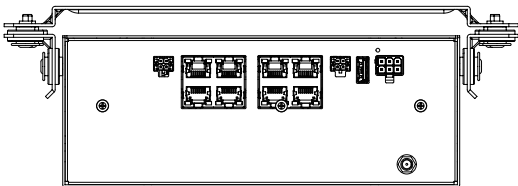
единицы измерения: мм (дюймы)



Вид устройства

• TRM-410S

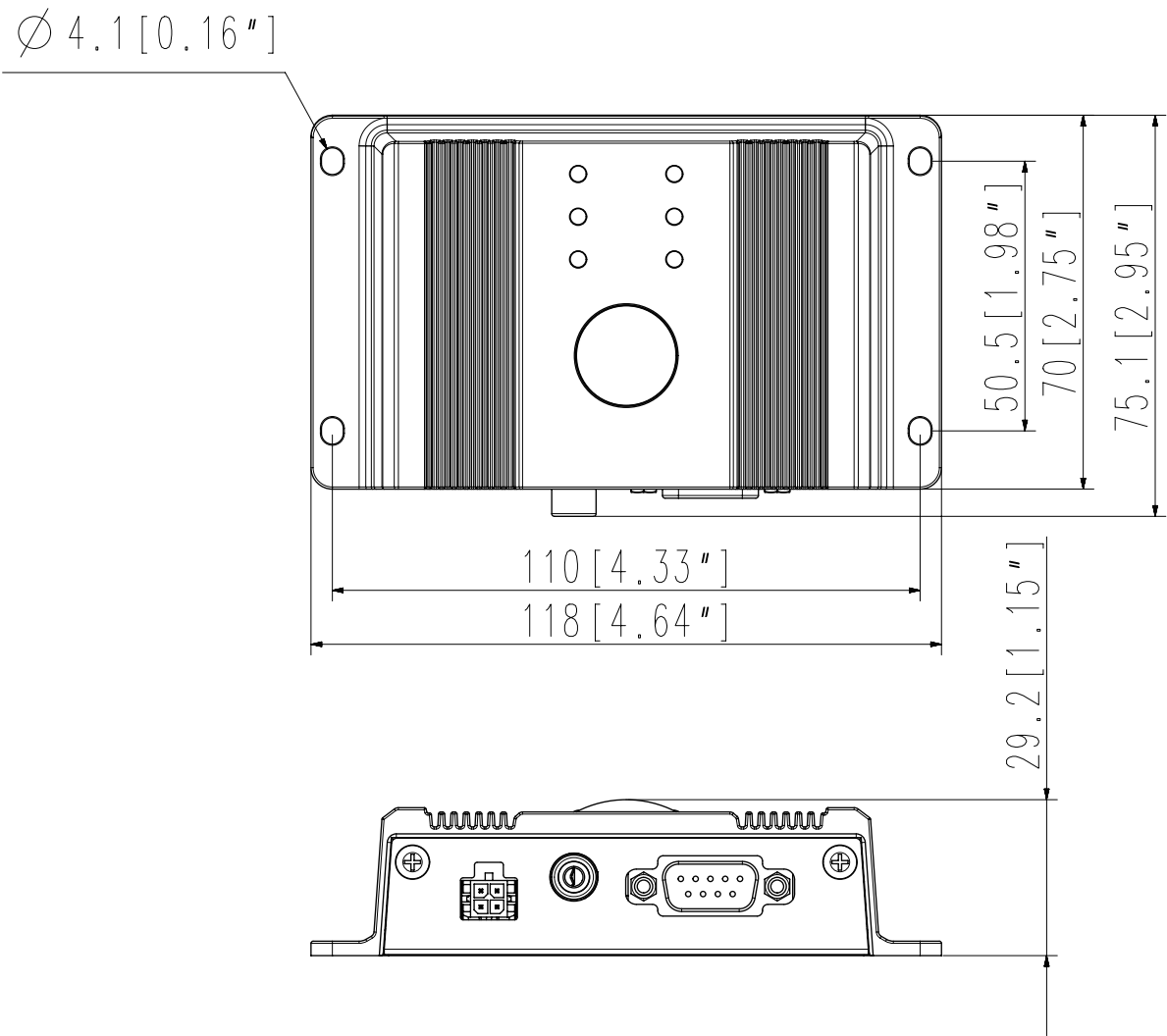
единицы измерения: мм (дюймы)



вид устройства

• Пульт управления

единицы измерения: мм (дюймы)



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- **OpenSSL Combined License** : openssl-1.0.2n
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- **Acknowledgement** : This product includes modified version of cJSON, Live555, qtopia4.7.2, and npapi-sdk-0.27

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Version 2, June 1991

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Version 2.1, February 1999

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За подробной информацией о месте и способе экологически безопасной утилизации бытовым потребителям следует обращаться к продавцу данного изделия или в органы местного самоуправления.

Промышленным потребителям необходимо обратиться к поставщику, чтобы уточнить сроки и условия договора купли-продажи. Подобные изделия и электронные принадлежности не следует утилизировать вместе с другими производственными отходами.



Правила утилизации батарей данного изделия

(Действительны в Европейском Союзе и иных европейских странах с системами раздельной утилизации.)

Данная маркировка на батарее или упаковке указывает на запрет утилизации изделия с иными бытовыми отходами по окончании срока службы. При наличии маркировки, химические символы Hg, Cd или Pb указывают на содержание в батарее ртути, кадмия или свинца выше контрольных уровней, Указанных в директиве ЕС 2006/66.

При неправильной утилизации батарей, данные вещества могут нанести вред здоровью человека или окружающей среде. Для защиты природных ресурсов и поддержки повторного использования материалов рекомендуется хранить батареи отдельно от других типов отходов и утилизировать их через местную систему бесплатного возврата батарей.

Замена аккумуляторов, встроенных в данное изделие, пользователем не предусмотрена. Информация по замене аккумуляторов может быть получена у обслуживающей компании.

