

VMS(Video Management Software) Appliance

Product Specification Manual

BRB-X3210S1E

BRB-X32101E

BRB-X1610SE

BRB-X1610E

VMS(Video Management Software) Appliance

Product Specification Manual

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❖ Design and specifications are subject to change without prior notice.
You can download the latest version from the Hanwha Vision web site. (www.HanwhaVision.com)

❖ The initial administrator ID is “admin” and the password should be set when logging in for the first time.
Please change your password every three months to safely protect personal information and to prevent the damage of the information theft.
Please, take note that it's a user's responsibility for the security and any other problems caused by mismanaging a password.

IMPORTANT SAFETY INSTRUCTIONS

Read these operating instructions carefully before using the unit.

Follow all the safety instructions listed below.

Keep these operating instructions handy for future reference.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean the contaminated area on the product surface with a soft, dry cloth or a damp cloth.
(Do not use a detergent or cosmetic products that contain alcohol, solvents or surfactants or oil constituents as they may deform or cause damage to the product.)
- 7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding- type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. if the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) Do not allow children to access or operate this device. This is professional equipment and must be used only by qualified personnel.



Standards Approvals



- Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



- This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

overview

BEFORE START

This manual provides operational information necessary for using the product and contains a description about each component part and its function as well as menu or network settings.

You have to keep in mind the following notices :

- Hanwha Vision retains the copyright on this manual.
- This manual cannot be copied without Hanwha Vision's prior written approval.
- We are not liable for any or all losses to the product incurred by your use of non-standard product or violation of instructions mentioned in this manual.
- Prior to opening the case, please consult a qualified technician first. Whenever this is needed power must be removed from the unit.
- Before adding a hard disk drive or external storage (USB memory, USB HDD, etc), check if it is compliant with this product. For the compatibility list, contact the retailer.

Warning

Battery

It is essential that when changing the battery in the unit, the replacement battery must be of the same type otherwise there may be a possibility of an explosion.

The following are the specifications of the battery you are using now.

- Normal voltage : 3V
- Normal capacity : 210mAh
- Continuous standard load : 0.4mA
- Operating temperature : -20°C ~ +60°C
(-4°F ~ +140°F)

CALIFORNIA USA ONLY

This Perchlorate warning applies only to primary CR (Manganese Dioxide) Lithium coin cells in the product sold or distributed ONLY in California USA.
"Perchlorate Material - special handling may apply,
See www.dtsc.ca.gov/hazardouswaste/perchlorate."



- Do not place the battery under direct sunlight or near a heat source, such as a heater.
(eg. leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas;)

Moving fan blades

- Keep body parts away from fan blades.

CAUTION

- Connect the power cord into a grounded outlet.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.
- When the HDD reaches its end of life, the stored video data may be damaged, and not be able to be recovered.
- The HDD status LED on the front of the system continuously blinks to indicate that the system's connection to the HDD is normal. Check the HDD status LED regularly to see if it blinks continuously. Recording may not be possible when there is an HDD failure.
Periodically check the recording status and backup important data regularly.
- Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
- RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.
- Do not ingest battery, Chemical Burn Hazard.
- This product contains a coin / button cell battery. If the coin / button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.

- Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children.
If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

ATTENTION

- IL Y A RISQUE D'EXPLOSION SI LA BATTERIE EST REMPLACÉE PAR UNE BATTERIE DE TYPE INCORRECT.
METTRE AU REBUT LES BATTERIES USAGÉES CONFORMÉMENT AUX INSTRUCTIONS.
- Ne pas ingérer la pile, risque de brûlure chimique.
- Ce produit contient une pile de type bouton/pièce de monnaie. Si la pile de type bouton/pièce de monnaie est avalée, elle peut causer de graves brûlures internes en seulement 2 heures et peut entraîner la mort.
- Gardez les piles neuves et usagées hors de portée des enfants. Si le compartiment de la pile ne se ferme pas correctement, cessez d'utiliser le produit et gardez-le d'atteinte des enfants.
Si vous suspectez que des piles ont été avalées ou insérées dans une partie du corps, consultez un médecin sans tarder.

System Shutdown

Turning off the power while the product is in operation, or undertaking improper actions may cause damage or malfunction to the hard drive or the product.

Press <OK> on the system shutdown popup window and then remove the power cable to ensure a safe power off.

You may want to install a UPS system for safe operation in order to prevent damage caused by an unexpected power stoppage. (Any questions concerning UPS, consult your UPS retailer.)



- If powered off abnormally, restarting may take more time for restoring data from hard disk drive for proper operation.

Operating Temperature

The guaranteed operating temperature range of this product is 0°C ~ 40°C (32°F ~ 104°F).

This product may not work properly if you run right after a long period of storage at a temperature below the guaranteed one.

Prior to using a device that has been stored for a long period in low temperatures, allow the product to stand at room temperature for a period.

Especially for the built-in HDD in the product, its guaranteed temperature range is 5°C ~ 55°C (41°F ~ 131°F).

Likewise, the hard drive may not work at a temperature below the guaranteed one.

Ethernet Port

This equipment is in door use and all the communication wirings are limited to inside of the building.

Security Precautions

The initial administrator ID is "admin" and the password should be set when logging in for the first time.

Please change your password every three months to safely protect personal information and to prevent the damage of the information theft.

Please, take note that it's a user's responsibility for the security and any other problems caused by mismanaging a password.

Products supporting each feature

Function	Products
Fan	BRB-X3210S1E/BRB-X32101E/BRB-X1610SE/BRB-X1610E
AI compatible function	BRB-X3210S1E/BRB-X32101E/BRB-X1610SE/BRB-X1610E
Extended monitor	BRB-X3210S1E/BRB-X32101E/BRB-X1610SE/BRB-X1610E
Failover	BRB-X3210S1E/BRB-X32101E/BRB-X1610SE/BRB-X1610E
PoE	BRB-X3210S1E/BRB-X1610SE

- 
- In duplicated mode, a 4K resolution monitor supports up to 30 fps. In extended mode, the resolution of a primary monitor supports up to 1080p.
 - If the total power of the port or the maximum power per port is exceeded, all ports will be powered off one by one. For PoE power consumption of each product, see below.
 - BRB-X3210S1E : Total 53Vdc Max 3.77A, Max Power 53Vdc Max 0.57A per port
 - BRB-X1610SE : Total 52Vdc Max 1.92A, Max Power 52Vdc Max 0.58A per port

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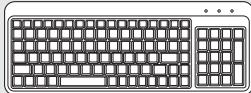
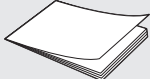
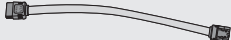
overview

PACKAGE CONTENTS

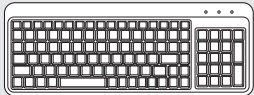
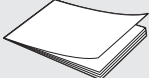
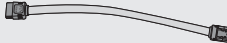
Please unwrap the product, and place the product on a flat place or in the place to be installed.
Please check the following contents are included in addition to the main unit.

- 
- The appearance of the components may differ from the image shown.
 - Accessory category and quantity may differ depending on sales region.
 - For some regions, HDD is not pre-installed. The numbers of HDD fixing screws and SATA cables vary depending on the fixed number of HDDs.

BRB-X3210S1E/BRB-X32101E

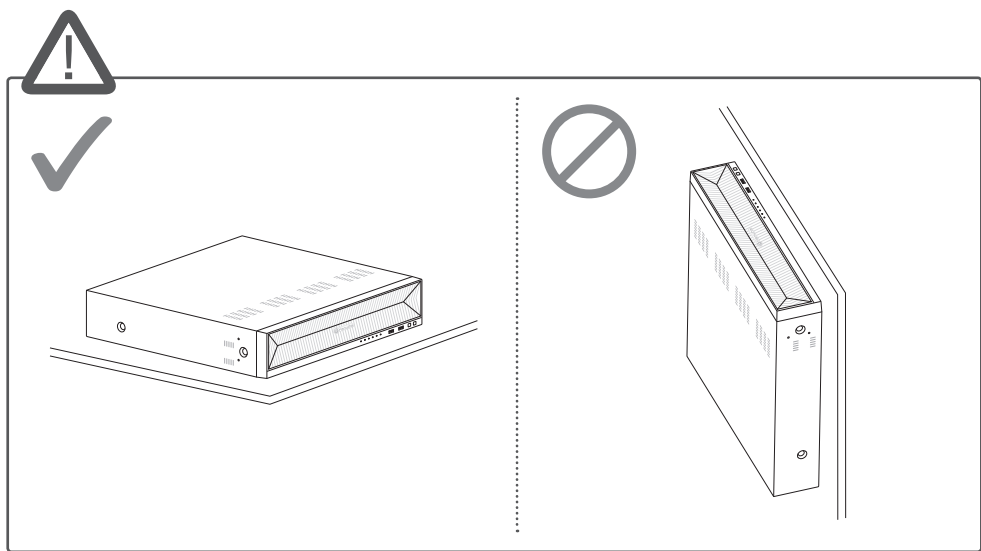
		
VMS Appliance	Mouse	Keyboard
		
Quick Guide	Power Cable	Bracket Rack (2 ea)
		
SATA Power Cable	SATA Data Cable (4 ea)	HDD Fixing Screw (16 ea)
		
Bracket Fixing Screw (4 ea)		

BRB-X1610SE/BRB-X1610E

		
VMS Appliance	Mouse	Keyboard
		
Quick Guide	Power Cable	Bracket Rack (2 ea)
		
SATA Power Cable	SATA Data Cable (2 ea)	HDD Fixing Screw (8 ea)
		
Bracket Fixing Screw (4 ea)		

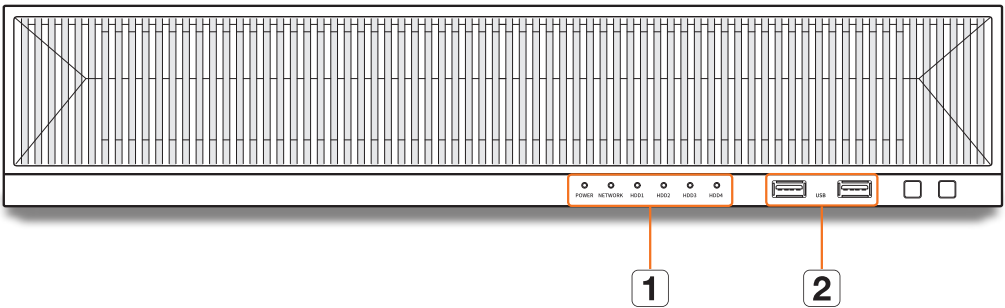
overview

 ■ Use the product in a flat, horizontal position as illustrated.

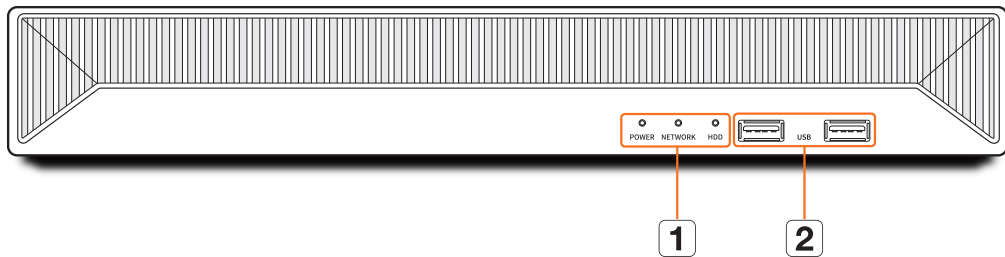


PART NAMES AND FUNCTIONS (FRONT)

BRB-X3210S1E/BRB-X32101E



BRB-X1610SE/BRB-X1610E

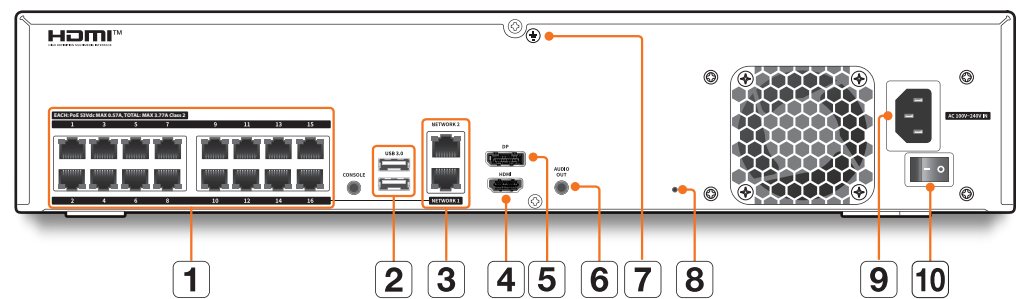


Name		Functions
1	LED Indicator	POWER : Shows the power ON/OFF status.
		NETWORK : Displays the status of the NETWORK2 port connection and data transmission.
		HDD : Displays the operation status of the HDD. The LED blinks when the HDD is active.
2	USB	Connects the USB devices. (USB 2.0 supported)

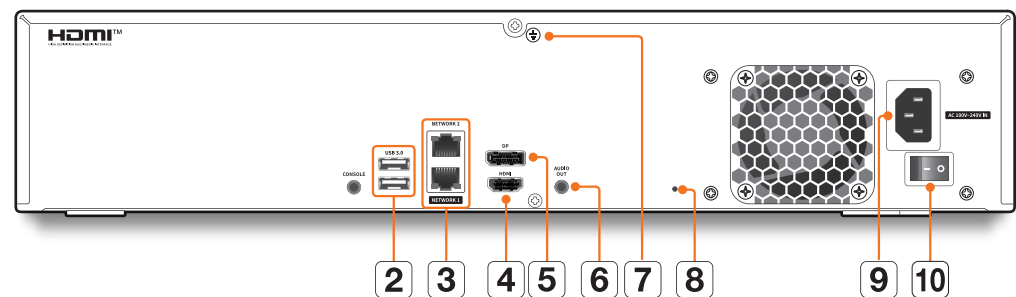
overview

PART NAMES AND FUNCTIONS (REAR)

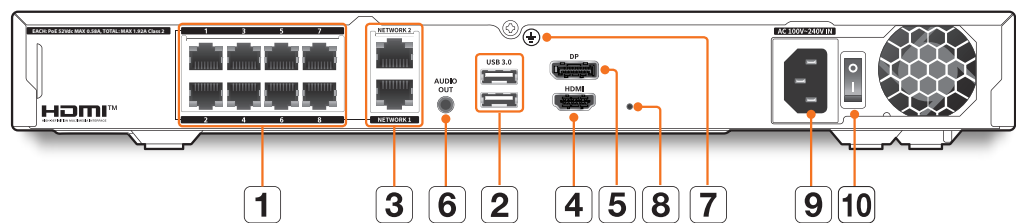
BRB-X3210S1E



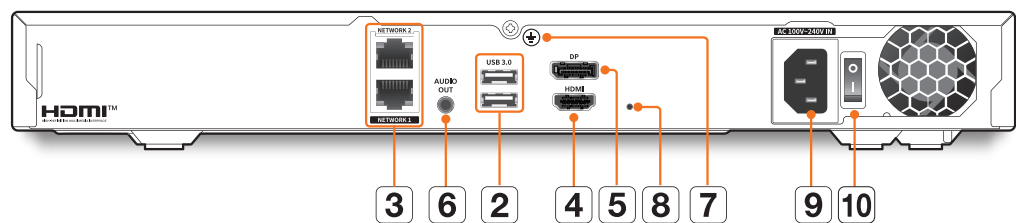
BRB-X32101E



BRB-X1610SE



BRB-X1610E



Name		Functions
1	PoE	Supply power to the camera.
2	USB 3.0	Port for connecting USB devices.
3	NETWORK 1	Port for camera connections; it receives video from a camera.
	NETWORK 2	Port recommended for network connection and client access.
4	HDMI	HDMI video output port.
5	DP	DP video output port.
6	AUDIO OUT	Audio output port.
7	Ground Connection	Port for connecting a separate ground cable. For safe handling of the device, please add a ground wire.
8	Factory default	You can reset all settings of the product to factory defaults.  Performing a factory reset will erase all recorded data on the HDD.
9	Power	Port for power input.
10	Power Switch	Power on/off switch.



- When connecting the AC power cord or turning on the power switch, there may be a luminous (light) phenomenon inside the SMPS. This phenomenon is the normal operation of the SMPS protection element.
- CONSOLE is designed for the service repair purpose only.

installation

Please take note of the followings before using this product.

- Do not use the product outdoor.
- Do not spill water or liquid in the connection part of the product.
- Do not impose the system to excessive shock or force.
- Do not pull out the power plug forcefully.
- Do not disassemble the product on your own.
- Do not exceed the rated input/output range.
- Use a certified power cord only.
- For the product with an input ground, use a grounded power plug.

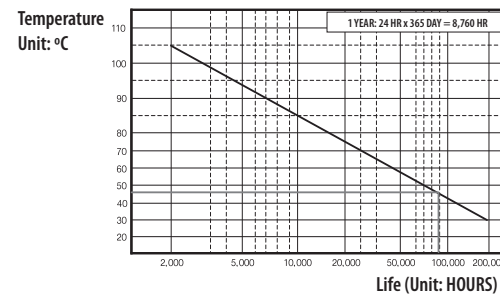


■ Depending on the HDD configuration and the surrounding temperature, there may be some noise from the product.

CHECKING THE INSTALLATION ENVIRONMENT

This product is an advanced security device with a high-capacity HDD and critical internal circuitry.

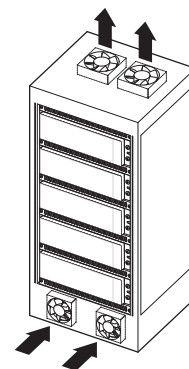
Note that an excessive internal temperature of the product may cause a system failure or a shortened product life (see the right figure). Keep in mind the following instructions before installing the product.



[Figure 1]

When mounting the product on a rack, comply with the following instructions.

1. Please ensure that the rack inside is not sealed.
2. Please ensure the air is circulated through the inlet/outlet as shown in the picture.
3. If you pile up the products or other rack-mount devices as shown in figure 2, secure room for ventilation or install a vent.
4. For natural air convection, place the inlet at the bottom of the rack and the outlet on top.
5. It is strongly recommended that a fan motor is installed at the inlet and the outlet for air circulation.
(Please fit a filter at the inlet to screen dust or foreign substances.)
6. It is recommended to keep the temperature inside the rack or around the product at 25°C.

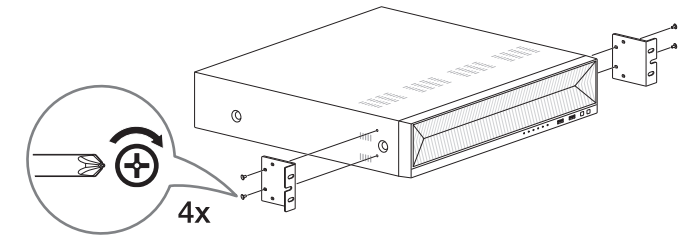


[Figure 2]

INSTALLING THE RACK

Install the Bracket-Rack as shown in the figure, and then fasten the screws on the left/right sides.

- Fix the screws not to be loosened by vibrations.



Example) BRB-X3210S1E

INSTALLING THE HDD

Make sure to unplug the power cord from the wall outlet to prevent possible electric shock, injury or product damage.

Please consult your provider for further information on HDD installation since improper installation or settings may damage the product.

- Number of HDDs supported
 - BRB-X3210S1E/BRB-X3210T1E : Supports up to 4 HDDs.
 - BRB-X1610SE/BRB-X1610E : Supports up to 2 HDDs.
- Make sure to unplug the power cord from the wall outlet before proceeding with the installation.



■ Cautions for data loss (HDD care)

Please pay attention so that the data inside the HDD is not damaged.

Before adding a HDD, please check the compatibility with this product.

HDD is vulnerable to malfunction due to its sensitive nature especially against shock when operating. Please ensure that the HDD is free from such shock.

We are not liable for any damage to the HDD incurred by user's carelessness or miss use.

■ Cases might cause damage to HDD or recorded data

To minimize the risk of data loss from a damaged HDD, please backup data as often as possible.

If exposed to shock when disassembling or installing, data stored in the HDD may be damaged.

A sudden power failure or turning off the product while in HDD operation may damage the HDD.

HDD or files stored inside may be damaged if the main body is moved or impacted during the HDD operation.

Cautions when installing a HDD

1. Do not apply excessive force to the HDD.
2. Pay attention so as not to lose the disassembly screws or accessories.
 - If the screws or accessories are not put together correctly, the product may breakdown or not operate properly.
3. Please check the HDD compatibility before adding a HDD.
 - Please contact your nearest dealer to obtain the list of compatible devices.
4. If you wish to replace or add an HDD, contact your dealer or our customer service first.

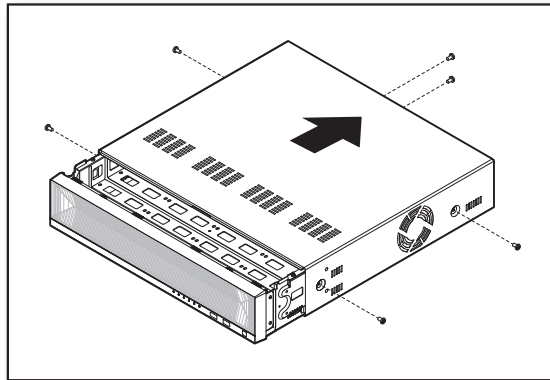
Installing the HDD

- If you are adding a new or previously used HDD to this product in addition to the HDD(s) originally installed, format the new HDD manually in the set before use.
- For replacement or installation of an additional HDD you must contact your dealer or our customer center.

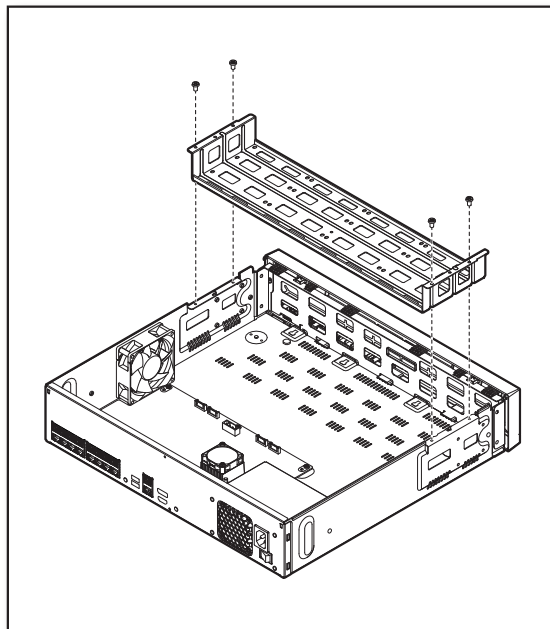
BRB-X3210S1E/BRB-X32101E

- The following figures are based on Model BRB-X3210S1E.

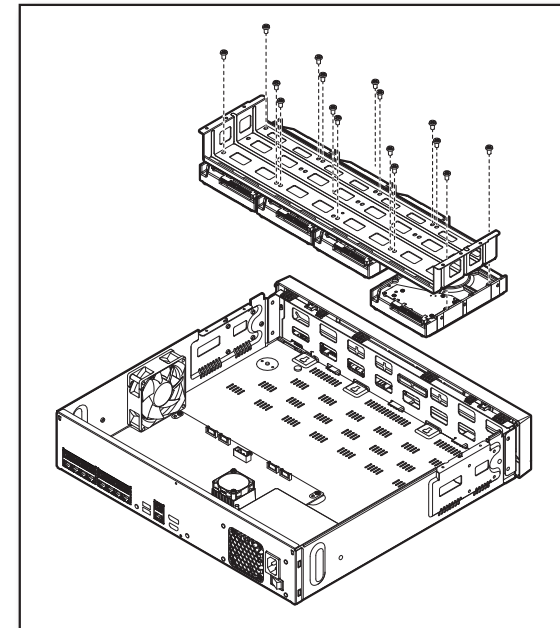
1. Remove the screws from the left/right sides and back side, and push the cover back to release it.



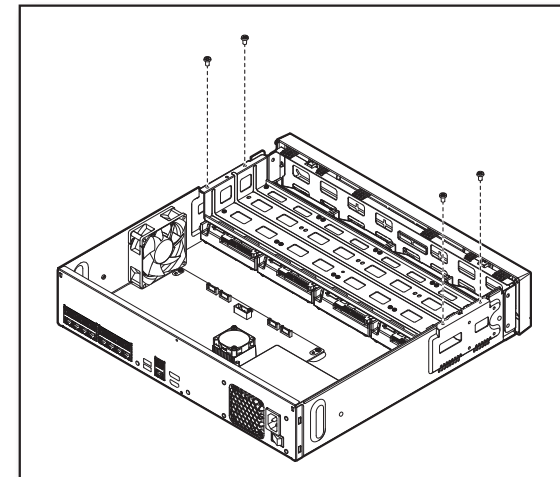
2. Remove the screws from the left/right sides and release the bracket.



3. Mount an HDD into the bracket, and fix it using screws.

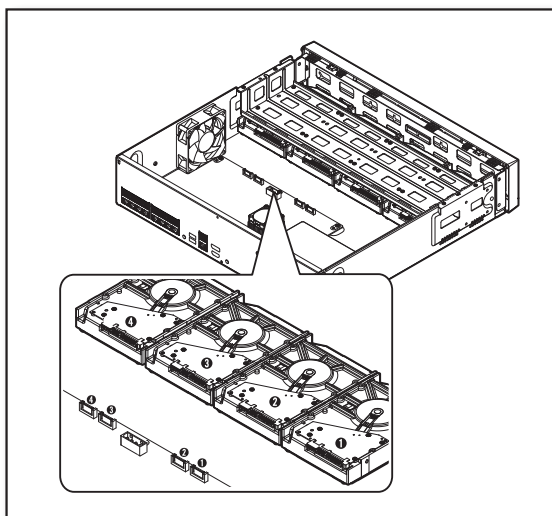


4. Fix the HDD-mounted bracket to the product using screws.



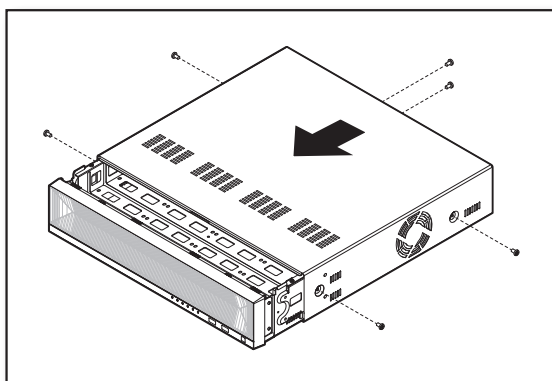
5. Connect the SATA/power cable of the HDD to the connector of the main board.

- Refer to the figure below for the HDD location number and connector number.



6. Make sure that there is no problem in the connection port and routing inside the product, and then fix it using screws after closing the cover.

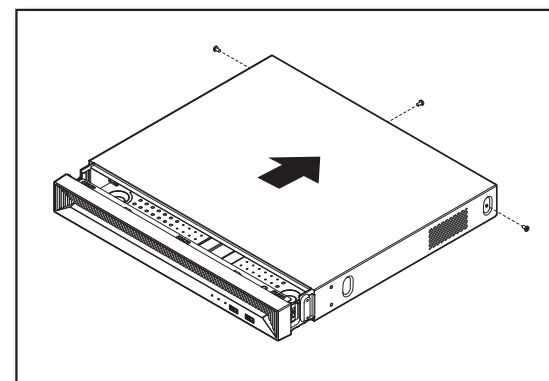
- When closing the cover, be careful not to damage the cable.



BRB-X1610SE/BRB-X1610E

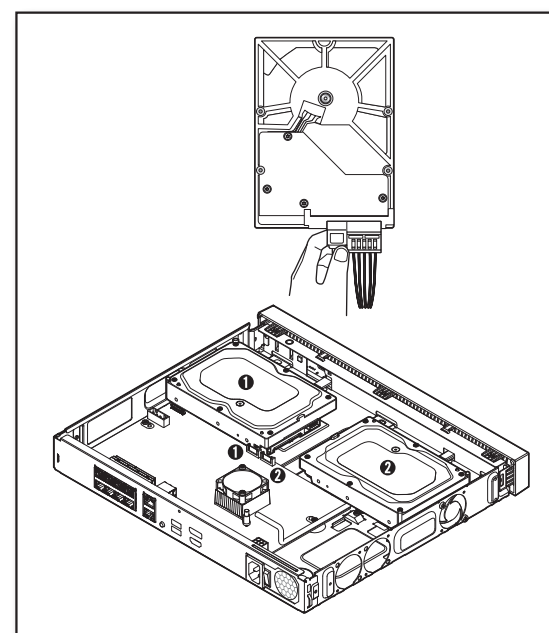
- The following figures are based on Model BRB-X1610SE.

1. Remove the screws from the left/right sides and back side, and push the cover back to release it.



2. Connect the SATA/power cable of the HDD to the connector of the main board.

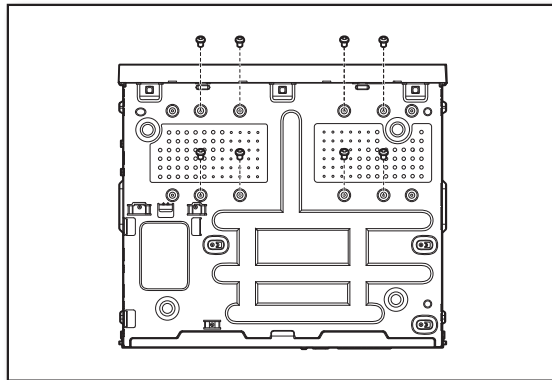
- Refer to the figure below for the HDD location number and connector number.



- Gently press the connector before removing the HDD. Do not force to pull the cable.

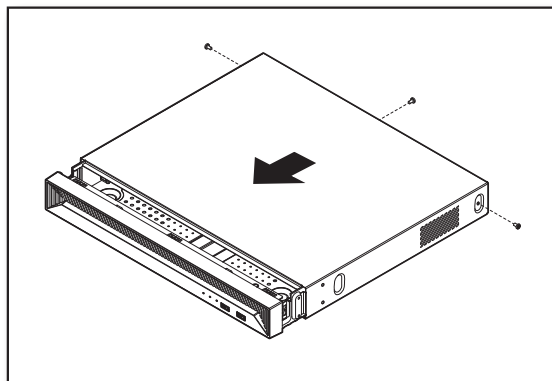
installation

3. Use the screws to fix the HDD to the bottom of the product.



4. Make sure that there is no problem in the connection port and routing inside the product, and then fix it using screws after closing the cover.

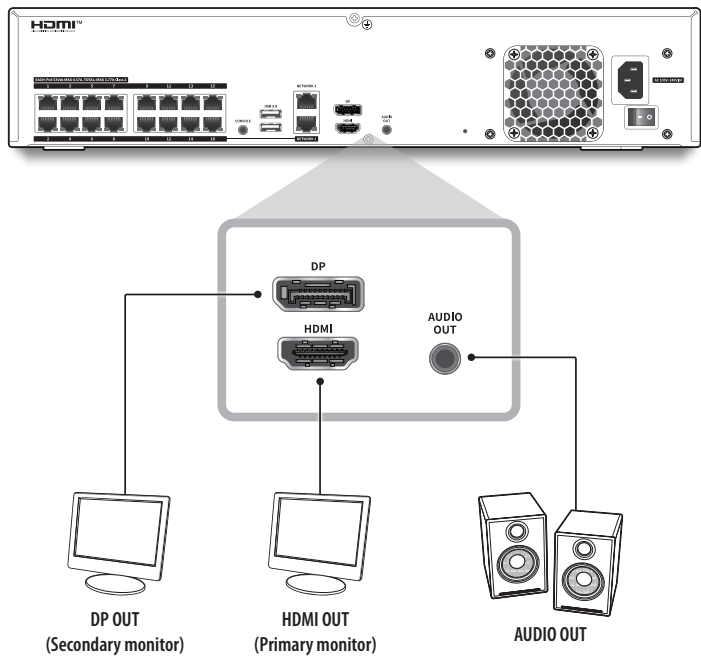
- When closing the cover, be careful not to damage the cable.



connecting to other devices

CONNECTING TO AN EXTERNAL DEVICE

■ The following figures are based on Model BRB-X3210S1E.

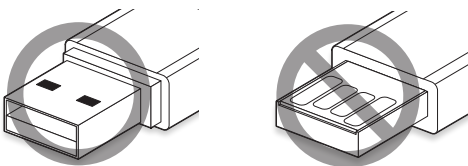


! ■ Unrated or improper power source may cause damage to the system. Ensure that you use only the rated power source before pressing the POWER button.

CONNECTING THE USB

1. On the front of the product, there is a USB port.
2. You can connect a USB HDD, USB memory or mouse to the USB port.
3. The product supports hot plugging function that enables connecting/disconnecting USB devices while in operating the system.

- !
- If the USB device for Export Recorded Video is not formatted in this product, format it as FAT32 on the PC.
 - Some USB devices may fail to function properly due to compatibility issue, please check the device before using.
 - Only standard USB storage devices (metal cover type) are supported. Operation with other types is not guaranteed.
 - In case if the USB device's electric contacts have been worn out, data transfer between the devices may not properly function.

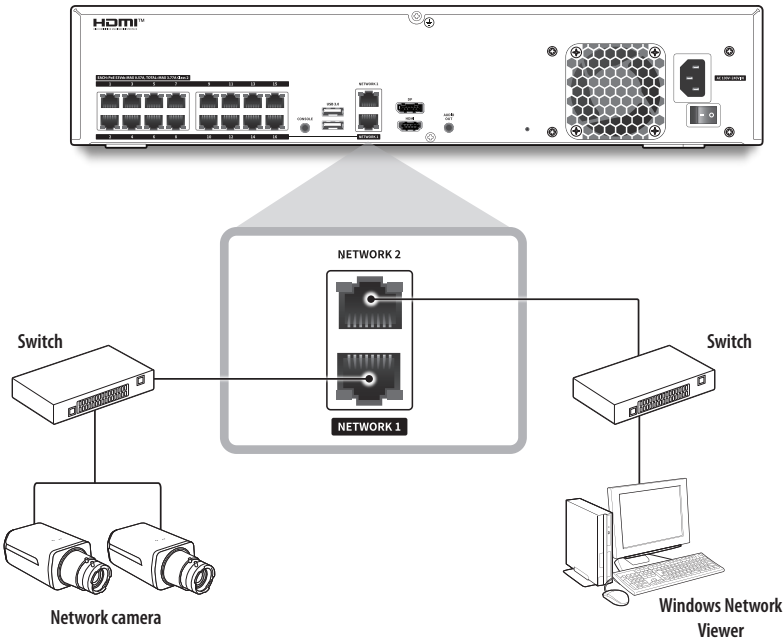


connecting to other devices

CONNECTING THE NETWORK

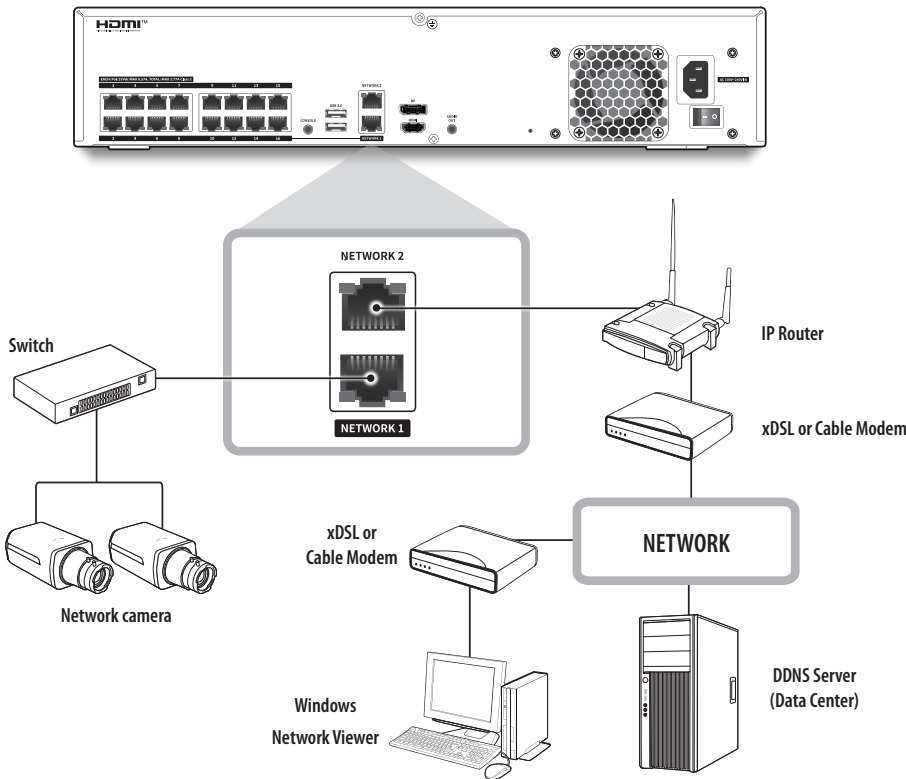
Network connection via ethernet (10/100/1000BaseT)

■ The following figures are based on Model BRB-X3210S1E.



Network connection via router

■ The following figures are based on Model BRB-X3210S1E.



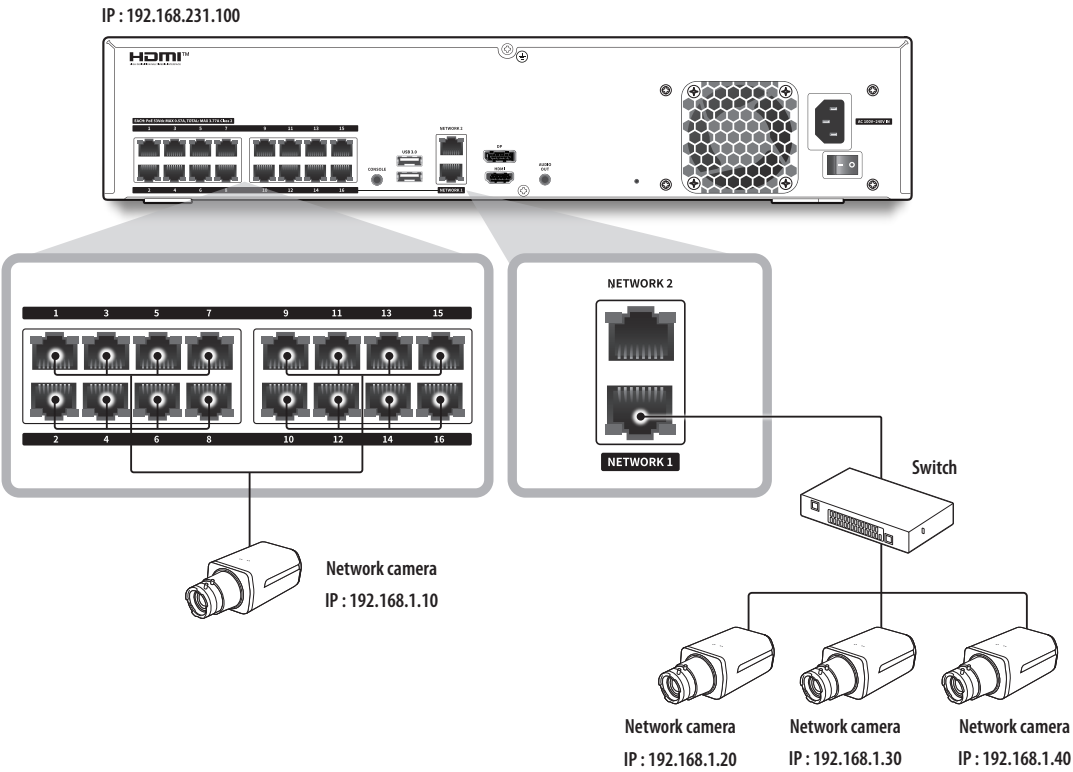
connecting to other devices

Network camera connection

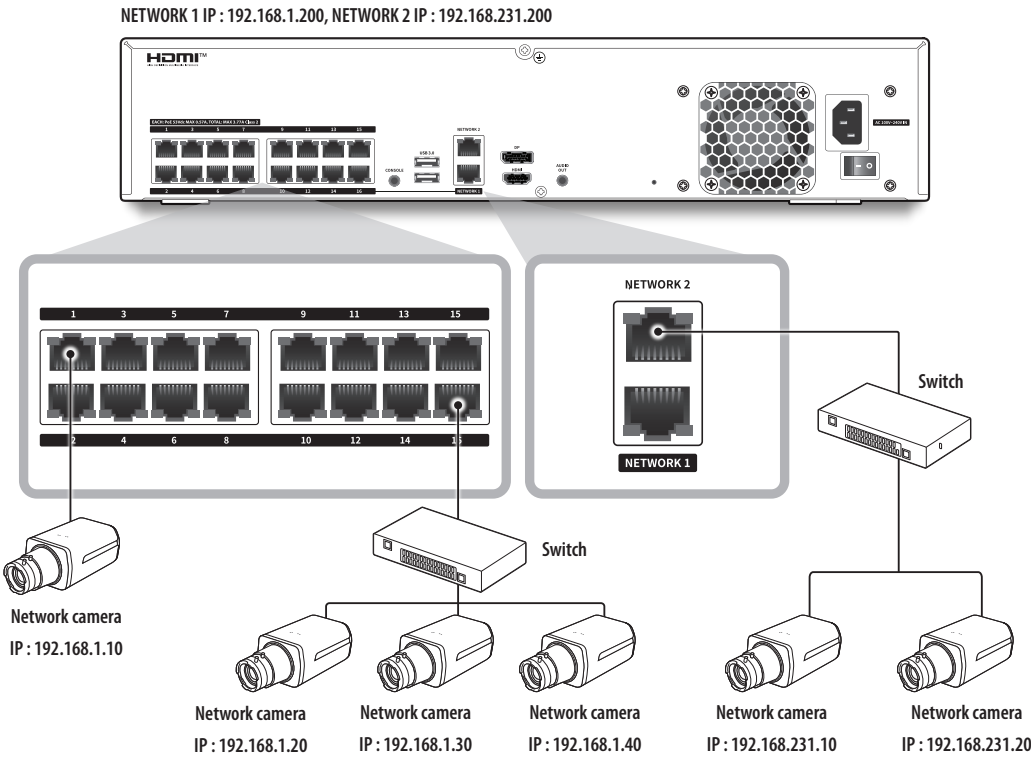
BRB-X3210S1E/BRB-X1610SE

■ The following figures are based on Model BRB-X3210S1E.

Example 1)



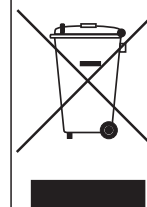
Example 2)





Hanwha Vision cares for the environment at all product manufacturing stages, and is taking measures to provide customers with more environmentally friendly products.

The Eco mark represents Hanwha Vision's devotion to creating environmentally friendly products, and indicates that the product satisfies the EU RoHS Directive.



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.



Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems.)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

