

IR-1100 Quick Guide

Version 1.0.2

Before reading this manual

This manual contains basic instructions on installing and using IR-1100 Network Video Recorder.

Users who are using this product for the first time, as well as users with experience using comparable products, must read this manual carefully before use and heed to the warnings and precautions contained herein while using the product. Safety warnings and precautions contained in this manual are intended to promote proper use of the product and thereby prevent accidents and property damage and must be followed at all times.

Once you have read this manual, keep it at an easily accessible location for future reference.

- The manufacturer will not be held responsible for any product damage resulting from the use of unauthorized parts and accessories or from the user's failure to comply with the instructions contained in this manual.
- It is recommended that first-time users of IDIS IR-series Network Video Recorder and individuals who are not familiar with its use seek technical assistance from their retailer regarding product installation and use.
- If you need to disassemble the product for functionality expansion or repair purposes, you must contact your retailer and seek professional assistance.

Safety, Environmental, and Regulatory Information

Refer to the **Safety**, **Environmental**, **and Regulatory Information** document included in the product package.

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Version 1.0.2

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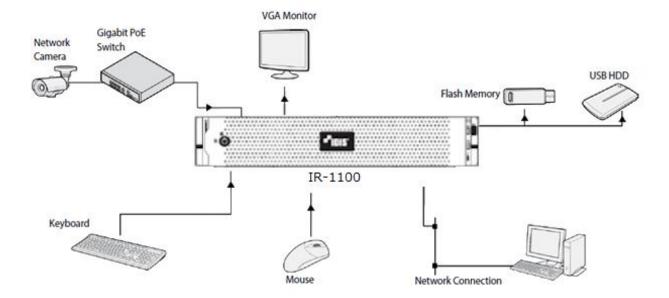


1 Introduction

This is a video recorder that supports surveillance, recording, and playback of video from network cameras or video encoders.

This NVR (Network Video Recorder) unit offers the following features:

- Tested and validated with IDIS Solution Suite up to 256 Full HD H.264/H.265 IP cameras
- Supports up to 256 Full HD cameras in real-time for enterprise-level surveillance systems
- 1,024Mbps (128MBps) maximum recording bandwidth per server
- · Redundancy of power for mission-critical reliability
- Complete compatibility with IDIS components: IP cameras, analog DVR, DirectCX TVR, DirectIP NVR, and encoders
- Equipped with RAID 5, RAID 6 recording, Hot swappable
- 2U rack mount chassis with sliding rails and cable management arm for ease of serviceability
- Supports H.264, H.265 compression, and Intelligent Codec
- Supports Onvif Profile S, Axis, Panasonic, etc.





2 Accessories

Upon unpackaging the product, check the contents inside to ensure that all the following accessories are included.

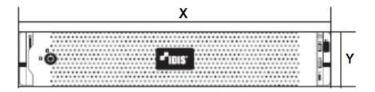


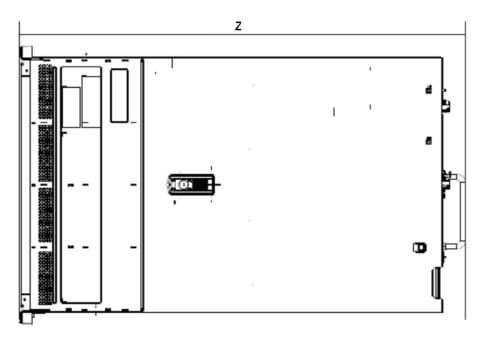
No.	Component	Quantity
1	IR-1100 Main Body	1
2	Front Chassis & Lock Key	1
3	Safety, Environmental, and Regulatory Information Manual	1
4	Power Code (A Type- Deskside)	2
5	Power Jumper Code (10A,4M,C13/C14)	2
6	Rack Mounting Bracket	1
7	Rack Installation Instructions Manual	1
8	Cable Strap	2 (1 pack)



3 Overview

3.1 Dimension





X	Υ	Z
482.0 mm (18.98 inch)	86.8 mm (3.42 inch)	717.6 mm (28.25 inch)

3.2 Front Panel



Item	Component	Description		
1	Loft control panel	Contains system health and system ID, status LED and optional		
'	Left control panel	iDRAC Quick Sync 2 (wireless).		
2	Drive slots	Enable you to install up to 8 drives that are supported on your system		
2	Right control panel	Contains the power button, VGA port, iDRAC Direct micro USB port,		
3		and two USB 2.0 ports.		



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3.2.1 Left control panel



Item	Indicator	Icon	Description
			Indicate the status of the system.
1	Status LED	N/A	The indicators display solid amber if any error occurs.
			For more information, see Status LED indicators.
	System health	•	Indicates the system health.
2	and ID	ž	For more information, see System Health and System ID
	and iD		indicator.
			Indicates if the iDRAC Quick Sync 2 wireless option is activated.
			The Quick Sync 2 feature allows management of the system
	iDRAC Quick	10.00	using mobile devices. This feature aggregates
3	Sync 2 wireless	<u></u>	hardware/firmware inventory and various system level
	indicator		diagnostic/error information that can be used in troubleshooting
			the system.
			For more information, see iDRAC Quick Sync 2 indicator.

(1) Status LED Indicators

Icon	Indicator	Condition	Corrective Action
0	Drive	The indicator turns solid amber if there is a drive error.	 Check the System Event Log to determine if the drive has an error. If the drives are configured in a RAID array, restart the system, and enter the host adapter configuration utility program.
	Temperature	The indicator turns solid amber if the system experiences a thermal error.	 Ensure that none of the following conditions exist: A cooling fan has been removed or has failed. System cover, air shroud, memory module blank, or back filler bracket is removed. Ambient temperature is too high. External airflow is obstructed.
£	Electrical	The indicator turns solid amber if the system experiences an electrical error (for example, voltage out of range, or a failed power supply unit (PSU) or voltage regulator).	Check the System Event Log or system messages for the specific issue. If it is due to a problem with the PSU, check the LED on the PSU. Reseat the PSU.
	Memory	The indicator turns solid amber if a memory error occurs.	Check the System Event Log or system messages for the location of the failed memory. Reseat the memory module.



	PCle	The indicator turns solid amber if a PCIe card	Restart the system. Update any required	
	role		drivers for the PCIe card. Reinstall the card.	
		experiences an error.		

(2) System Health and System ID indicator

Indicator code	Condition
Solid blue	Indicates that the system is turned on, system is healthy, and system ID mode is not
Solid blue	active. Press the system health and system ID button to switch to system ID mode.
Dlinking blue	Indicates that the system ID mode is active. Press the system health and system ID
Blinking blue	button to switch to system health mode.
Solid amber	Indicates that the system is in fail-safe mode.
Blinking amber	Indicates that the system is experiencing a fault. Check the System Event Log for
Dilliking affiber	specific error messages.

(3) iDRAC Quick Sync 2 indicator

Indicator code	Condition	Corrective Action	
Off (default state)	Indicates that the iDRAC Quick Sync 2 feature is turned off.	 Press the iDRAC Quick Sync 2 button to turn on the iDRAC Quick Sync 2 feature. If the LED fails to turn on, reseat the left control panel flex cable and check. 	
Solid white	Indicates that iDRAC Quick Sync 2 is ready to communicate.	 Press the iDRAC Quick Sync 2 button to turn off. If the LED fails to turn off, restart the system. 	
Blinks white rapidly	Indicates data transfer activity.	If the indicator continues to blink indefinitely, contact the installer or seller.	
Blinks white slowly	Indicates that firmware update is in progress.	If the indicator continues to blink indefinitely, contact the installer or seller.	
Blinks white five times rapidly and then turns off	Indicates that the iDRAC Quick Sync 2 feature is disabled.	Check if iDRAC Quick Sync 2 feature is configured to be disabled by iDRAC.	
Solid amber	Indicates that the system is in fail-safe mode.	Restart the system.	
Blinking amber	Indicates that the iDRAC Quick Sync 2 hardware is not responding properly.	Restart the system.	



3.2.2 Drive slots

Each drive carrier has an activity LED indicator and a status LED indicator.



Item	Component	lcon	Description
1	Drive status indicator	≯	Indicates the power condition of the drive.
2	Drive activity indicator		Indicates whether the hard drive is currently in use or not.
3	Drive release button	N/A	Press the button to open the drive carrier release handle to remove or replace the drive.
4	Drive information tag	N/A	Shows the drive information such as capacity, drive type, rpm and so on.

(1) Drive status indicator code

Indicator code	Condition
Flashes green twice per second	Identifying drive or preparing for removal.
	Drive ready for removal.
Off	NOTE: The drive status indicator remains off until all
Oil	drives are initialized after the system is turned on.
	Drives are not ready for removal during this time.
Flashes green, amber, and then turns off	Predicted drive failure.
Flashes amber four times per second	Drive failed.
Flashes green slowly	Drive rebuilding.
Solid green	Drive online.
Flashes green for three seconds, amber for three	Rebuild stopped.
seconds, and then turns off after six seconds	Rebuilu stoppeu.

NOTE: If the drive is in the Advanced Host Controller Interface (AHCI) mode, the status LED indicator does not turn on.



3.2.3 Right control panel



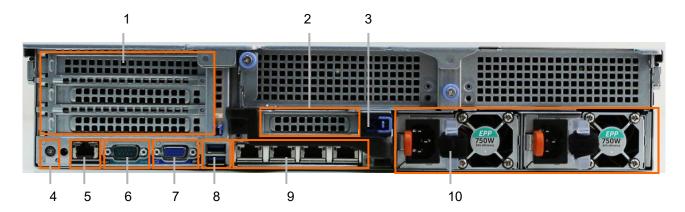
Item	Indicator	Icon	Description
1	Power button	715	Indicates if the system is turned on or off. Press the power
ı	rower bulloff	0	button to manually turn on or off the system.
2	USB port (2)	• (*	The USB ports are 4-pin, 2.0-compliant. These ports enable
	USB port (2)	-6-	you to connect USB devices to the system.
			Indicates if the iDRAC Quick Sync 2 wireless option is
			activated. The Quick Sync 2 feature allows management of
3	iDBAC Direct port	3	the system using mobile devices. This feature aggregates
3	3 iDRAC Direct port		hardware/firmware inventory and various system level
		diagnostic/error information that can be used in	
			troubleshooting the system.
		Direct LED N/A	The iDRAC Direct LED indicator lights up to indicate that
4	iDRAC Direct LED		the iDRAC Direct port is connected.
			For more information, see iDRAC Direct LED indicator.
5	VGA port	0	Enables you to connect a display device to the system.

(1) iDRAC Direct LED indicator

Indicator code	Condition
Solid green for two seconds	Indicates that the laptop or tablet is connected.
Flashing green (on for two seconds and off for two seconds)	Indicates that the laptop or tablet connected is recognized.
Turns off	Indicates that the laptop or tablet is unplugged.



3.3 Rear Panel



Item	Component	Icon	Description
1	Full-height PCIe	N/A	The PCIe expansion card slot (riser 1) connects up to three
'	expansion card slot	IN/A	full-height PCIe expansion cards to the system.
2	Half-height PCle	N/A	The PCIe expansion card slot (riser 2) connects one half-
	expansion card slot	IN/A	height PCle expansion cards to the system.
			The rear handle can be removed to enable any external
3	Rear handle	N/A	cabling of PCle cards that are installed in the PCle expansion
			card slot
			The System Identification (ID) button is available on the front
	System identification	٤	and back of the systems. Press the button to identify a system
4	button		in a rack by turning on the system ID button. You can also use
			the system ID button to reset iDRAC and to access BIOS using
			the step through mode.
5	iDRAC dedicated	ع	Enables you to remotely access iDRAC.
	port	7	Enables years formetally access in the control of t
6	Serial port	10101	Enables you to connect a serial device to the system.
7	VGA port		Enables you to connect a display device to the system.
8	LISB port	ss-	The USB ports are 9-pin and 3.0-compliant. These ports
0	USB port	35 6	enable you to connect USB devices to the system.
9	NIC port		The NIC ports that are integrated on the network daughter card
3			(NDC) provide network connectivity.
10	Power supply unit	N/A	Supplies power to the system.

(1) NIC indicator



Item	Component	Description
1	Link LED indicator	Indicates the speed of the connected network.
2	Activity LED indicator	Indicates if data is flowing through the NIC.



Indicator code	Condition
Link and activity indicators are off	The NIC is not connected to the network.
Link indicator is green and activity	The NIC is connected to a valid network at its maximum port
indicator is blinking green	speed and data is being sent or received.

(2) Power Supply Unit (PSU) indicator



Item	Component	Description
1	AC PSU status indicator	Shows whether power is present or if a power fault has occurred.

Indicator code	Condition
Green	A valid power source is connected to the PSU and the PSU is operational.
Blinking amber	Indicates a problem with the PSU.
Not illuminated	Power is not connected to the PSU.
Blinking green	When the firmware of the PSU is being updated, the PSU handle blinks green. CAUTION: Do not disconnect the power cord or unplug the PSU when updating firmware. If firmware update is interrupted, the PSUs do not function.
Blinking green and turns off	When hot-plugging a PSU, the PSU handle blinks green five times at a rate of 4 Hz and turns off. This indicates a PSU mismatch with respect to efficiency, feature set, health status, or supported voltage. CAUTION: If two PSUs are installed, both the PSUs must have the same type of label; for example, Extended Power Performance (EPP) label. Mixing PSUs from previous generations of PowerEdge servers is not supported, even if the PSUs have the same power rating. This results in a PSU mismatch condition or failure to turn the system on. CAUTION: When correcting a PSU mismatch, replace only the PSU with the blinking indicator. Swapping the PSU to make a matched pair can result in an error condition and unexpected system shutdown. To change from a high output configuration to a low output configuration or vice versa, you must turn off the system. CAUTION: AC PSUs support both 240 V and 120 V input voltages with the exception of Titanium PSUs, which support only 240 V. When two identical PSUs receive different input voltages, they can output different wattages, and trigger a mismatch. CAUTION: If two PSUs are used, they must be of the same type and have the same maximum output power.



3.4 Front Bezel





A key is located at the backside of the front bezel. You can secure recording storages by locking the lock on the front side of the bezel.



4 Getting Started

4.1 Setting Windows OS

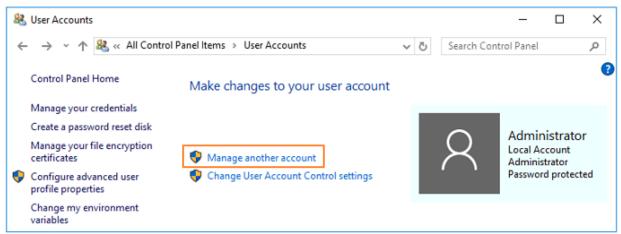
4.1.1 Setting password

Default login details for IR-1100 are as follows.

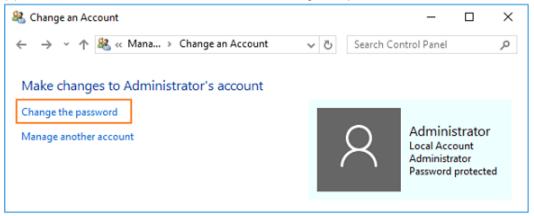
ID: Administrator Password: P@ssw0rd

Log in with the login detail above, and make sure to change the password for security.

(1) Click 'Windows Setup > Control Panel > User Accounts > Manage another account'.



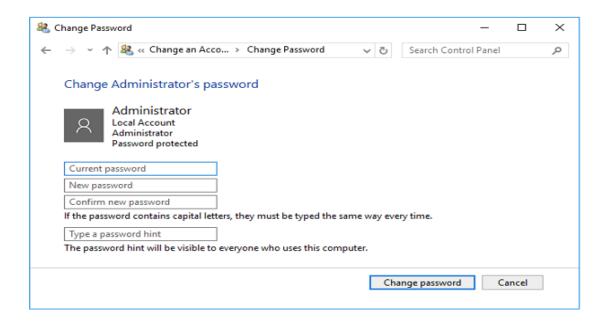
(2) Select Administrator account, then select 'Change the password' menu.



- (3) Change password of Administrator account considering the following password rules.
 - Be at least six characters in length
 - Contain characters from three of the following four categories;
 - English uppercase letters (A through Z)
 - English lowercase letters (a through z)
 - Base 10 digit (0 through 9)
 - Non-alphabetic characters (!,@,#,\$,%&,*)



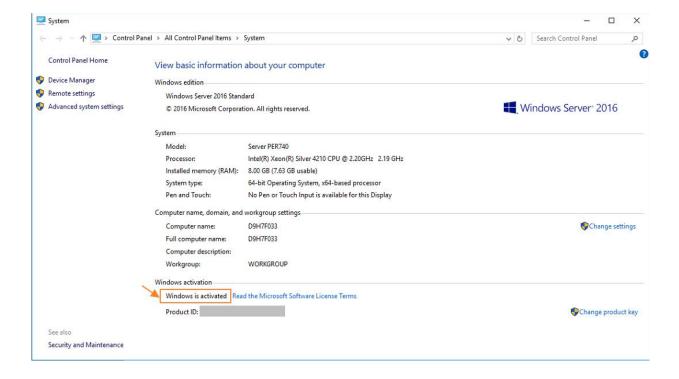
14



NOTE. It is recommended to create a **password reset disk** by clicking 'Windows Setup > Control Panel > User Accounts > Create a password reset disk' to reset a password when you forget the password of administrator or user account. A USB memory device or CD/DVD is needed to create a password reset disk.

4.1.2 Activating Windows OS license

Windows on the IR-1100 is basically activated when it is dispatched. Windows OS must be activated in the following picture. If your Windows OS is not activated, please refer to 'Checking Windows OS Key' and activate your Windows OS with your Windows OS Key.



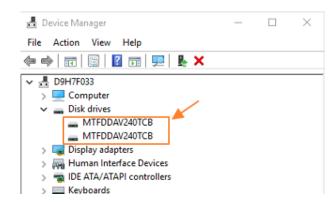


4.2 Setting Built-in SSD Storages

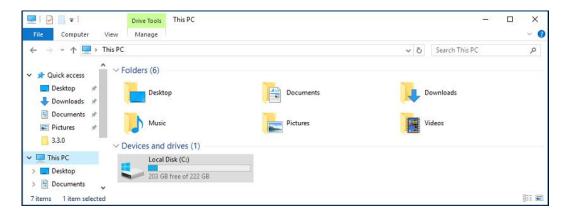
Two 240GB SSDs are located inside of IR-1100. Typically, the SSDs are on RAID 1 level which appears to be a single drive. Windows OS is installed on this drive and IDIS Solution Suite installation package is located on the same drive as well. This drive is used for software installation.

Checking the SSD status procedure is as follows.

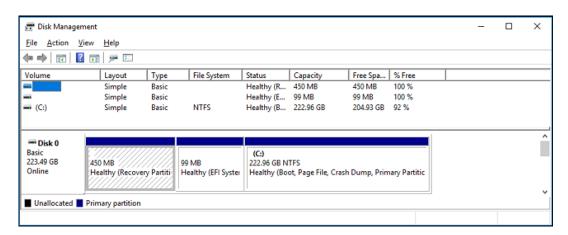
On the Windows OS > Device Manager, check if 240GB SSD is recognized.



If you check 'Windows Setup > File Explorer > Device and drives', SDDs are available as a single Logical Disk (C:).



You can also see SDDs are configured as a single Logical Disk at 'Windows Setup > Disk Management' Disk.





4.3 Setting Recording Drives

4.3.1 Installing Recording Drives

Maximum 8 of 3.5" HDD can be attached to the Drive slots of System..



Drives for recording purposes can be installed by the procedure below.



- (1) Insert the 3.5 inch drive adapter into the drive carrier with the connector end of the drive toward the back of the drive carrier.
- (2) Align the drive's screw holes with the holes on the drive carrier.
- (3) Install the screws to secure the drive to the drive carrier.



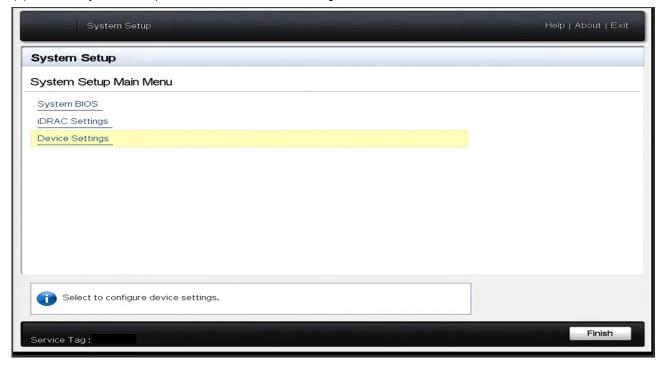
4.3.2 Configuring RAID

Configuring RAID for recording HDD can be done by entering System Setup menu from the boot up process.

(1) Press F2 while system is booting up, then select 'Entering System Setup' from the BIOS configuration screen.

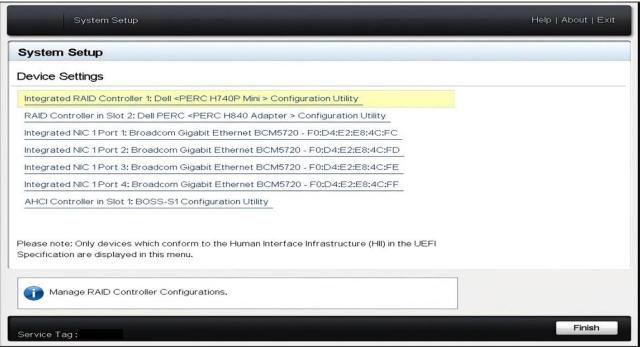


(2) Select 'System Setup Main Menu > Device Settings'.

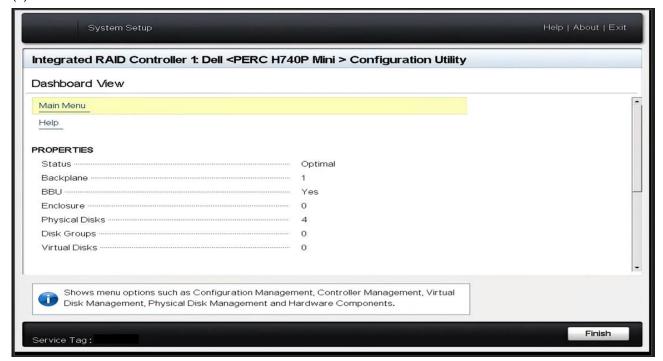




(3) Select 'Integrated RAID Controller 1:Dell <PERC H740 Mini> Configuration Utility'.

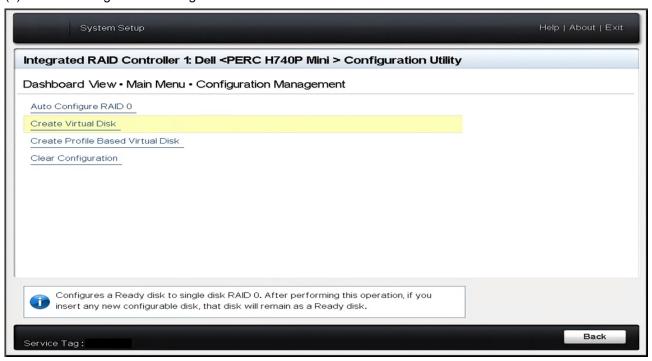


(4) Select 'Dashboard View > Main Menu'.

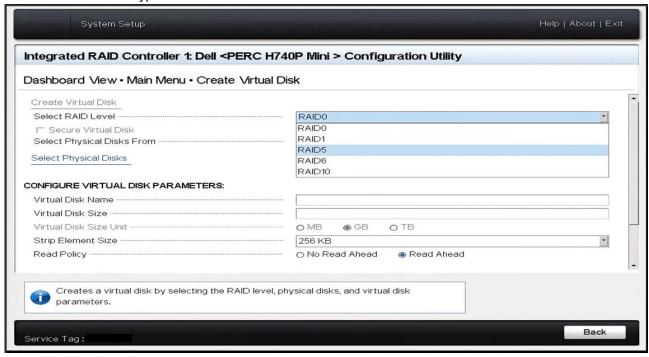




(5) Select 'Configuration Management > Create Virtual Disk'.

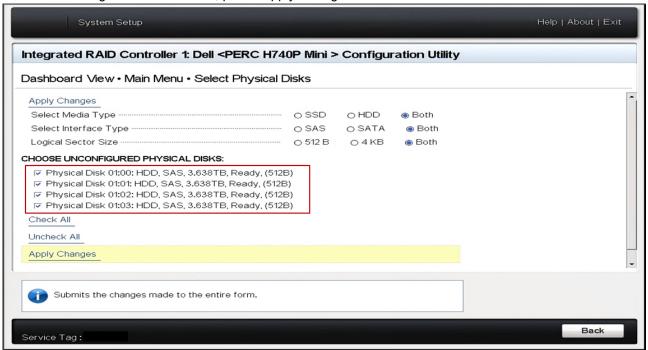


- (6) Configure the main elements from 'Create Virtual Disk' menu.
 - Select RAID Type.

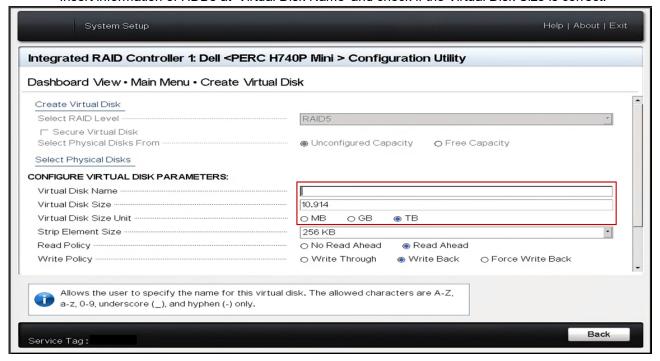




- You can select HDDs for your RAID level by ticking HDDs from 'Select Physical Disk'. After selecting the desired HDDs, press 'Apply Changes'.

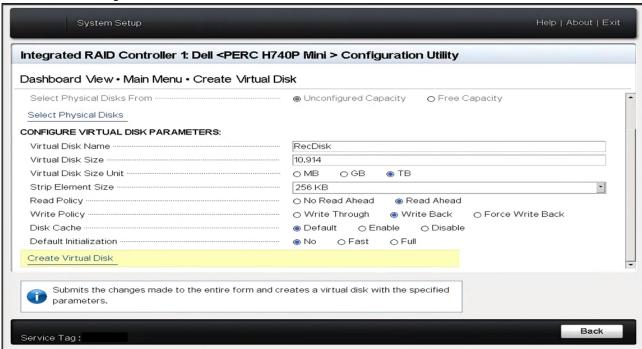


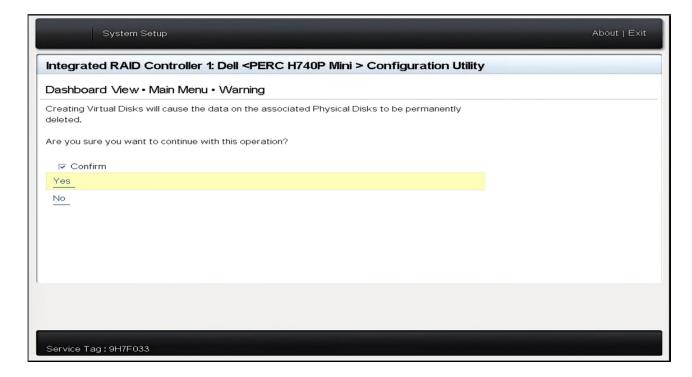
- Insert information of HDDs at 'Virtual Disk Name' and check if the Virtual Disk Size is correct.





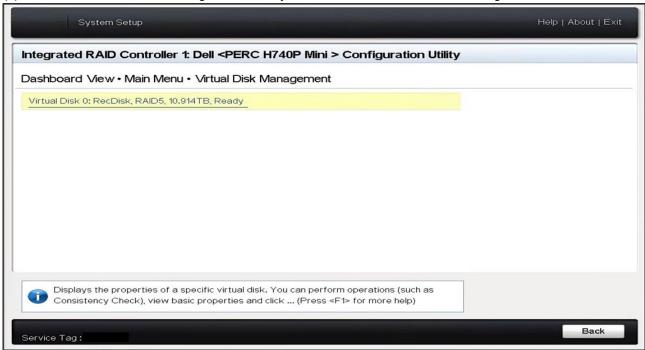
- After configuration, run 'Create Virtual Disk'.







(7) Check the virtual disk is configured correctly at 'Main Menu > Virtual Disk Management' screen.

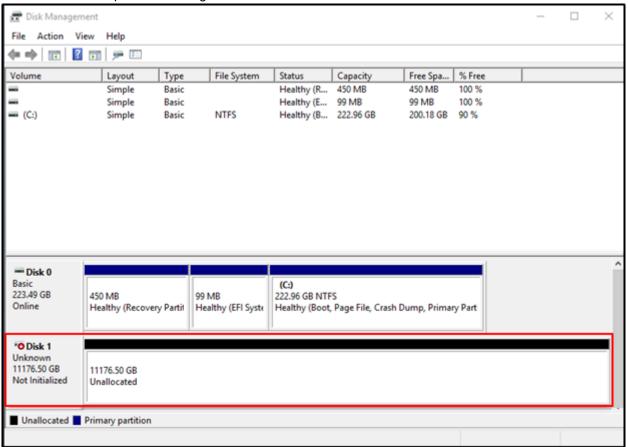


(8) Finish the 'System Setup' by clicking 'Finish' button at 'Main Menu'.





(9) After the Windows OS boot up, you can see the information on the newly created Virtual Disk at 'Windows Setup > Disk Management' menu.



4.3.3 Connecting External Storages

To expand recording storage, an external storage such as IS-1100 can be used. To attach the external storage, PCIe type external storage controller card should be attached to IR-1100.

To connect to an external storage such as IS-1100, RAID controller for external storage is needed, and it should be installed on IR-1100. In this case, 'PERC H840 Adapter' or similar Storage Controllers are recommended.

(1) To install a storage controller, turn off the device and open the top panel.





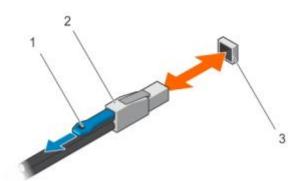
(2) You will see the inside of the device and the storage controller will be located where the red box is.



(4) Align the card-edge connector with the connector on the system board.

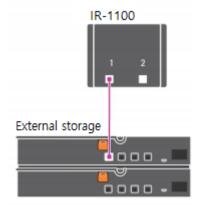
Press the card-edge down until the card is fully seated in the connector

(5) Connect the SAS data cable connectors to the card.



- 1: Pull-tab is used when you detach the cable
- 2: SAS cable
- 3: SAS port

(6) There are three ways to connect the external storage. This document includes only one of the three ways as an example.



- (7) Close the top panel.
- (8) Reconnect the system to its electrical outlet, then turn on the system and any attached peripherals.

4.3.4 Configuring RAID for External Storages

Configuring RAID for external storages can be done by entering the System Setup menu from booting up process.

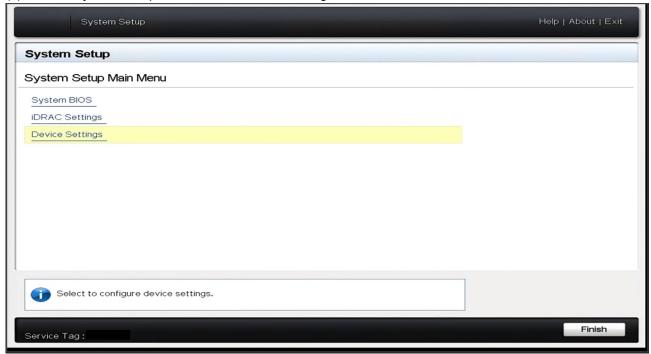
(1) Press F2 while system is booting up, select 'Entering System Setup' from BIOS configuration screen..



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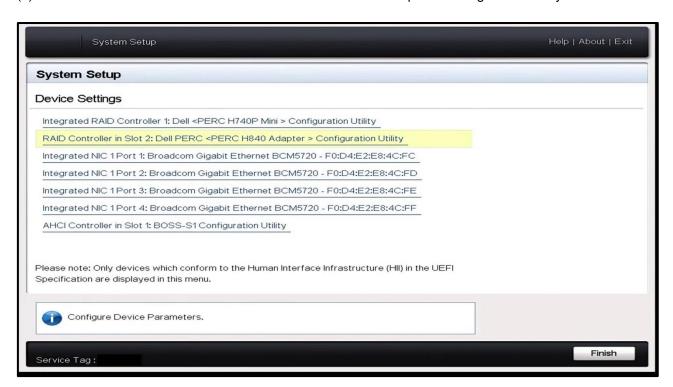


(2) Select 'System Setup Main Menu > Device Settings'.

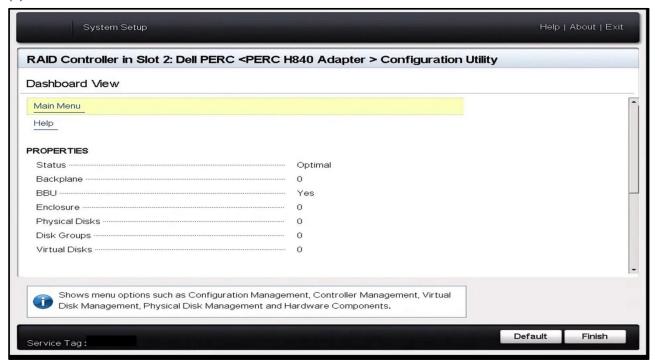




(3) Select 'RAID Controller in Slot 2:Dell PERC < PERC H840 Adapter > Configuration Utility'.

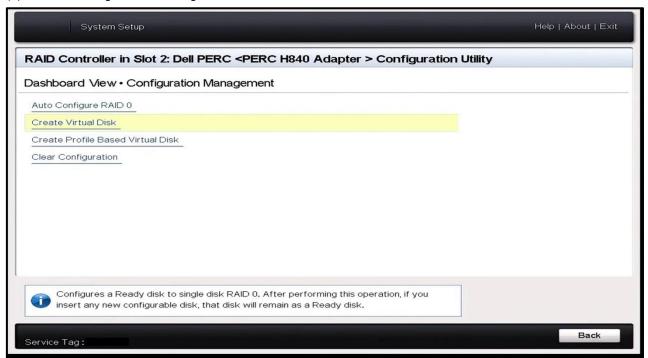


(4) Select 'Dashboard View > Main Menu'.

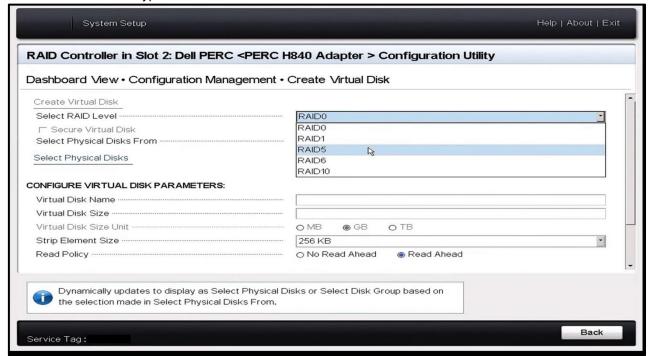




(5) Select 'Configuration Management > Create Virtual Disk'.

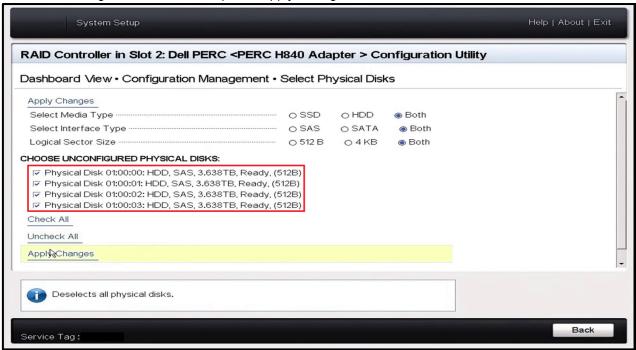


- (6) Configure the main elements from 'Create Virtual Disk' menu.
 - Select RAID Type.

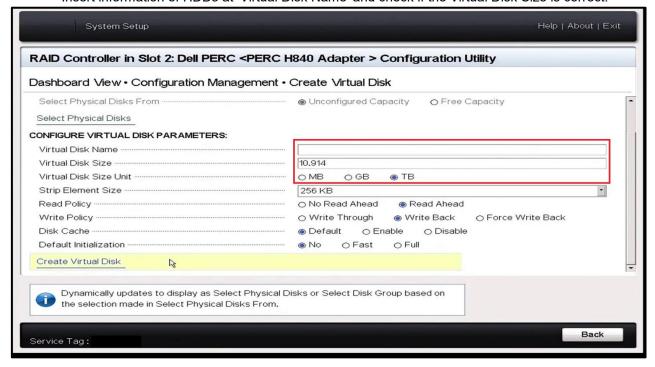




 You can select HDDs for your RAID level by ticking HDDs from 'Select Physical Disk'. After selecting the desired HDDs, press 'Apply Changes'.



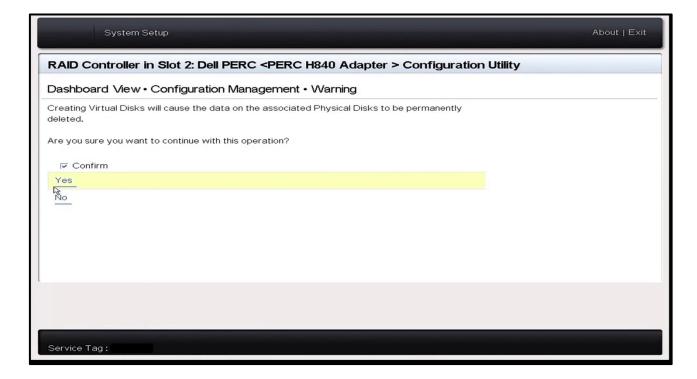
- Insert information of HDDs at 'Virtual Disk Name' and check if the Virtual Disk Size is correct.





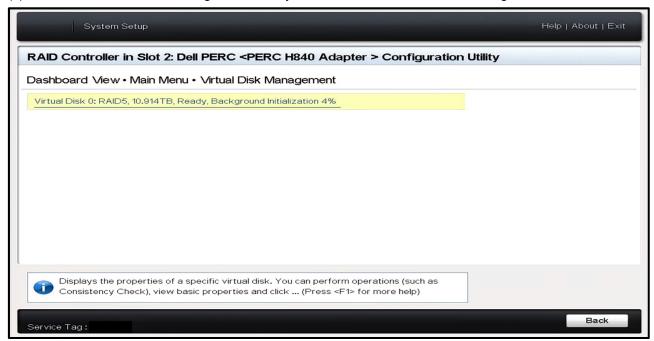
After configuration, run 'Create Virtual Disk'.







(7) Check the virtual disk is configured correctly at 'Main Menu > Virtual Disk Management' screen.

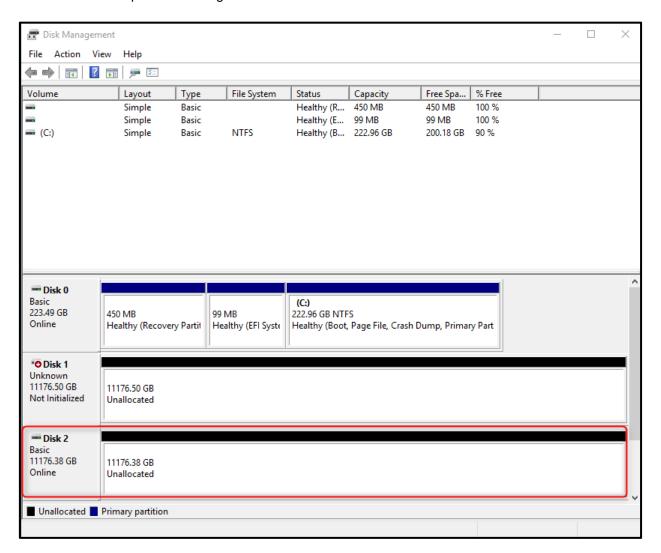


(8) Finish the 'System Setup' by clicking the 'Finish' button at 'Main Menu'.





(9) After the Windows OS boot up, you can see the information on the newly created Virtual Disk at 'Windows Setup > Disk Management' menu.



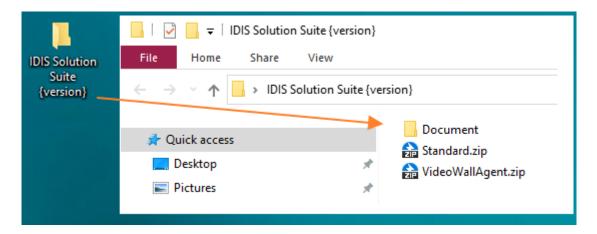


4.4 Installing IDIS Solution Suite

IDIS Solution Suite installation package is on the system and the installation process is as the below.

(1) Check the version of IDIS Solution Suite(name of the folder) from the Desktop of Windows OS and also check if the document folder and compressed files are included.

- Document: IDIS Solution Suite installation and operation manual.
- Standard.zip: Installation package for IDIS Solution Suite Expert, Federation and Update service.
- VideoWallAgent.zip: Installation package for IDIS Solution Suite Video Wall Agent.



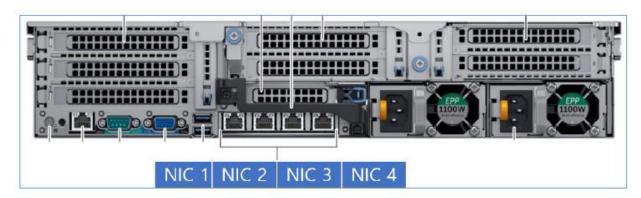
- (2) Check the Software License for IDIS Solution Suite, then install IDIS Solution Suite Expert or Federation on the C drive. Please refer to the documents in the Document folder for installation and configuration.
 - To install IDIS Solution Suite Expert: Unzip Standard.zip and run Setup/Setup.exe.
 - To install IDIS Solution Suite Federation: Unzip Standard.zip and run Setup/Federation.exe.
 - To install IDIS Solution Suite Update Service: Unzip Standard.zip and run UpdateServiceSetup.exe.
 - To install IDIS Solution Suite VideoWallAgent:
 Unzip VideoWallAgent.zip and run VideoWallAgent/VideoWallAgentSetup.



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4.5 Teaming Network Interface Controller(NIC)

IR-1100 has four RJ45 ports and users can use different teaming modes.



Network adapter teaming is a term that is used to describe various methods of combining multiple network connections to increase throughput or provide redundancy.

There are two main types of network teaming settings and four in total. They are as follows:

LACP(Link Aggregation Control Protocol)

IEEE 802.3ad Dynamic Link Aggregation: Also known as Link Aggregation Control Protocol (LACP) or IEEE 802.1ax. This type of team provides increased throughput by bundling multiple physical links into one logical link whose effective bandwidth is the sum of that of the physical links. This type of team requires that the switch on the other end of the connection support LACP,. The switch must be properly configured for the team to function properly.

Generic Trunking: Also known as static link aggregation, this type of team provides the same type of bundling functionality as IEEE 802.3ad/802.1ax but does not use LACP. The switch does not have to support LACP but must be properly configured for this type of team in order to function.

Smart Load Balancing and Failover

Smart Load Balancing (SLB) and Failover: This type of team balances network traffic across all primary adapters. If a primary adapter fails, the remaining primary adapters continue to balance the load. If all primary adapters fail, traffic continues to flow using the standby adapter with no interruption. Once a primary adapter is brought back online, traffic resumes flowing through it.

SLB with Auto Fallback Disable: This type of team functions as above, but traffic does not automatically revert to the primary adapter once it comes back online.

Setting Up NIC Teaming

***Please note that some teaming options require specific switches and network settings.



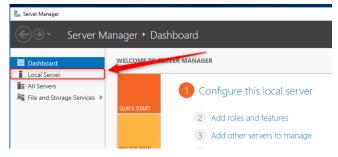
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4.5.1 Setting NIC Teaming Port

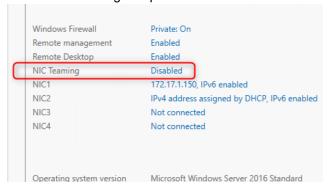
(1) Run Server Manager from Start Menu.



(2) Go to Local Server.

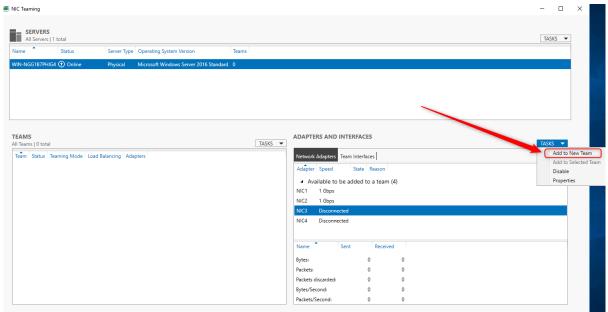


(3) Go to NIC Teaming setup menu.

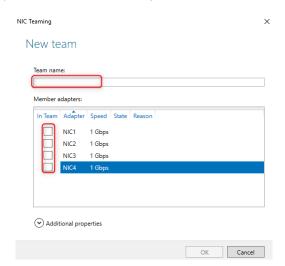




(4) Click 'Tasks' and select 'Add to New Team'.



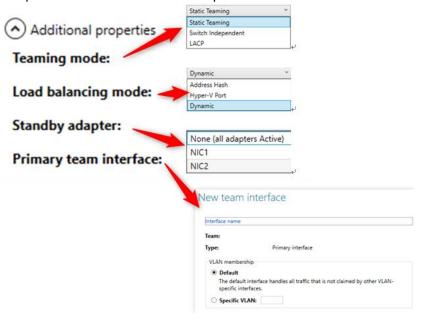
(5) Set name and desired ports.





4.5.2 Setting NIC Teaming Type

(1) Additional settings can be done on the 'Additional properties' section. Set options for your desired Teaming setting and click the OK button. The picture below shows available options.



- (2) Teaming mode: select desired Teaming mode
 - Static teaming(Static Link Aggregation): This option requires specific settings from switch and host(server)
 - Switch Independent: This option is for failover.
 - LACP: This option is for IEEE 802.3ad Dynamic Link Aggregation with LACP.
- (3) Load balance mode: select desired Load Balancing Mode,
 - Address Hash: Inbound and outbound traffic controlled statically.
 - Hyper-V Port: This option is for setting up VM (Virtual Machine) port
 - Dynamic: This is an option for the best performance in most cases. It provides a dynamic load balancing.
- (4) Standby adapter: setting up the primary NIC.
- (5) Primary team interface: setting up Specific VLAN.

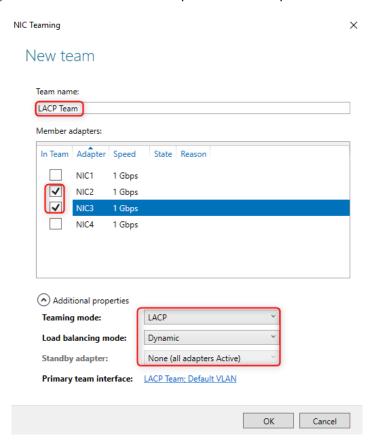
The next chapter will show you two main NIC teaming examples (LACP, Failover).



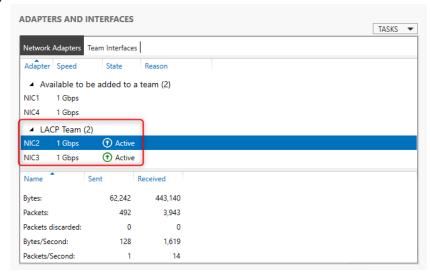
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4.5.3 Setting LACP Teaming Mode.

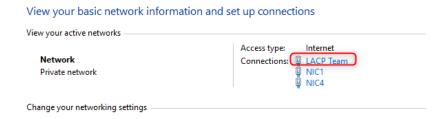
(1) Go to Add to New Team setup and set as the picture below.



- (2) Wait until the new setting is saved. Your current network setting will be lost (e.g. IP settings).
- (3) Check the result.

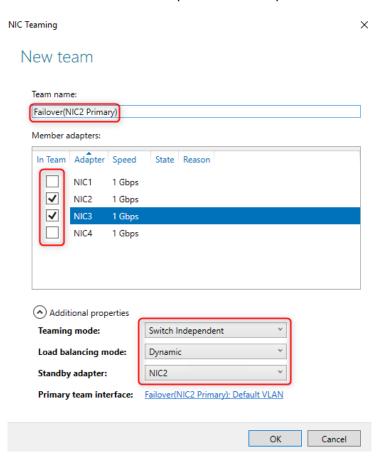






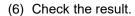
4.5.4 Setting Failover Teaming Mode

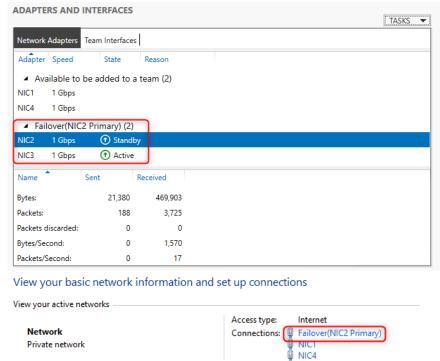
(4) Go to Add to New Team setup and set as the picture below.



(5) Wait until the new setting is saved. Your current network setting will be lost(e.g. IP settings)







5 Licenses and Service Codes

5.1 Windows OS License

Windows OS Key is required for certifying the reinstalled Windows OS and you can find it as follows.

(1) Find the Windows OS Key on the top chassis of the product.



(2) Scrape the hidden portion off the keys and check the full information of Windows OS Key.





5.2 IDIS Solution Suite License

IDIS Solution Suite License is not included in this product. It will be delivered separately by the seller. If you need to re-activate License due to an abnormal situation(e.g. changing server), please refer to manuals in IDIS Solution Suite installation folder on your desktop of Windows OS.

5.3 Service Tag or Express Service Code

Service Tag or **Express Service Code** is required for device specific service as well as checking warranty and you can find it as follows.

(1) Find the Information Tag panel on the right bottom of the product and pull it forward.



(2) The Service Tag and Express Service Code will be shown in front of Information Tag.





6 Specification

SYSTEM	
IDIS Solution Suite	Compatible with Expert and Federation/Version 2.6.0 or Higher
Network Connection	4 GbE RJ-45 Ports (1000Base-T)
Recording Data Rate	Up to 1024Mbps (128MBps)
Number of Cameras	Up to 256
Recording Storage	8 Bay
Hard Disk Driver	Up to 8 x Large Form Factor Near-line SATA Hard Disk Drives, Hot-
Configuration	swappable, RAID 5, RAID 6
Operating System	Microsoft® Embedded Windows Server 2016
Processor	Intel® Xeon® Processor silver 4210 2.2G, 10C/20T
Memory	8GB RAM (1 x 8GB DDR4-2666MT/s RDIMM)
Video Outputs	1 VGA

MECHANICAL	
Form Factor	2U rack Mount Chassis
Dimensions (W x D x H)	482.0mm x 717.6mm x 86.8mm (18.98" x 27.71" x 3.41")
Weight	34.5kg (76 lbs)

ELECTRICAL	
Power Input	100-240V AC, 50/60Hz
Power Supply	Redundant, Hot Swappable
Power Capacity	750W

ENVIRONMENTAL	
Operating Temperature	10° to 35°C (50° to 95°F)
Storage Temperature	-40° to 65°C (-40° to 149°F)
Operating Humidity	10% to 80% Relative Humidity
Non-operating Humidity	5% to 95% Relative Humidity, 38.7°C (101.7°F) Maximum Wet Bulb
Non-operating Fulfillidity	Temperature, Non-condensing
Operating Vibration	0.26 Grms at 5 Hz to 350 Hz
Storage Vibration	1.88 Grms at 10 Hz to 500 Hz for 15 min
Operating Shock	Six consecutively executed shock pulses in the positive and negative x, y,
Operating Shock	and z axes of 6 G for up to 11ms
Storage Shock	Six consecutively executed shock pulses in the positive and negative x, y,
	and z axes (one pulse on each side of the system) of 71 G for up to 2 ms
Operating Altitude	3048m (10,000ft)
Storage Altitude	12,000 m (39,370 ft)

ACCESSORIES SUPPLIED	
	Sliding rail system with cable management arm. Supports:
Rack Rail System	 Tool-less mounting in 19"-wide EIA-310-E compliant square hole and unthreaded round-hole 4-post racks Tooled mounting in threaded hole 4-post racks
Cable Management Arm	Yes
Rack Bezel	1, Front
Power Cord	1



CERTIFICATIONS	
Emissions Classification	FCC Rating Class A
EMC	CISPR 22; EN55022; EN55024; FCC CFR 47; Pt 15; ICES-003; CvNS14336-1; CNS13438; GB4943; GB9254; EN 61000-3-2; EN61000-3-3
Directives	RoHS, Reach(SVHC), WEEE



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7 Warranty

The warranty period for this product is 3 years.



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