



Installation Guide

Contact Information

Contact Information for DeepInspect is available at deepinspect.it. The "Contact Us" form addresses frequently asked questions, offers resolutions for identified issues, includes product documentation and specific case management.

For technical issues please contact support@deepinspect.it

To obtain the configuration manual/instructions, please scan the following QR code or contact the DeepInspect support team directly at support@deepinspect.it



Intellectual Property Rights

DeepInspect retains its rights, title, and interest in and to all patent rights, trademarks, trade names, inventions, copyrights, know-how, trade secrets and confidential information relating to its products and the design, manufacture, operation, or service of its products, and all the accompanying documentation, including this Guide.

It is forbidden to remove, alter, cover, or obfuscate any trademark, copyright notices or other proprietary rights notices placed or embedded by DeepInspect on or in any product and the relevant documentation.

No part of this Guide may be reproduced or transmitted in any form or by any means, electronic, mechanical, by photocopying, recording or otherwise, without prior written permission from the publisher.

Contents and illustrations are subject to change without notice.

HARDWARE DESCRIPTIONS

The railway product delivered by Netwitness OT Data Collector is hosted on a DeepInspect powered hardware, which is a server device with railway type-approval certification. The products are shipped with Netwitness OT Data Collector software installed.

Package Contents:

The listed items will be provided inside the packing box. Upon receiving the package, kindly ensure that the following items are present:

- Netwitness OT Data Collector physical host
- Rack support kit (support + screws)
- Adaptors for power supply (check section "Power Supply" later in this document)
- Adaptors for COM ports
- Installation Manual

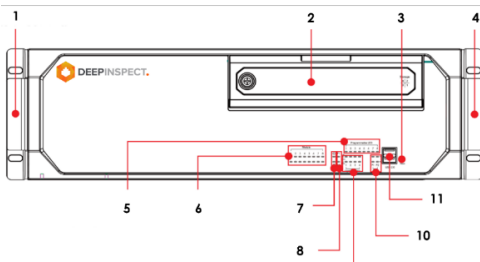
If any item is found to be missing or damaged, please reach out to us promptly at support@deepinspect.it for immediate assistance.

Customer Supplied Materials:

To complete the setup procedure, you will need:

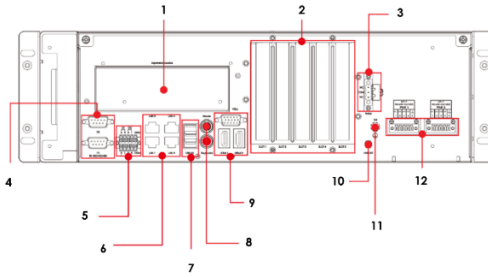
1. One to three Ethernet cables for the Diodes/Span ports connection
2. One Ethernet cable for the management
3. One industrial cable for power supply (detailed specifications provided later in this document)
4. One industrial cable for power supply redundancy
5. Rack mount cage screws
6. Standard tools

Front View of the Hardware:



KEY	DESCRIPTION
1	Rackmount Ear
2	Storage Disk Tray
3	Reset Button
4	Rackmount Ear
5	LEDs x 8 (Programmable)
6	LEDs x 16 (Module)
7	LEDs x 2 (Power, Storage)
8	LEDs x 2 (Power Failure)
9	LEDs x 8 (LAN)
10	LEDs x 4 (TX/RX)
11	USB Hosts x 2 (2.0, Type A)

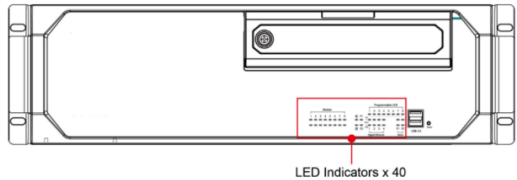
Rear View of the Hardware:



KEY	DESCRIPTION
1	Expansion Module Slot
2	Expansion Slots
3	Relay Output
4	Serial Ports x 2 (RS-232/422/485, DB9)
5	DIs x 6/DOs x 2 (terminal block)
6	LAN Ports x 4 (100/ 1000 Mbps, RJ45)
7	USB Hosts x 3 (3.0, type A)
8	Keyboard/ Mouse Inputs
9	VGA x 1/ HDMI x 2
10	Power Button
11	Grounding Connector
12	Power Inputs x 2 (100 to 240 VAC/VDC terminal block)

LED:

There are 40 LED indicators on the front panel. The following schema will illustrate what these LEDs represent:



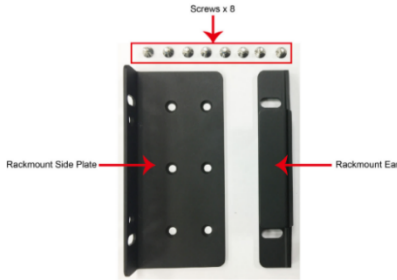
Information about each LED indicator is given in the following table:

LED	COLOUR	DESCRIPTION
Power	Green	Power is on
	Off	No power input
Storage	Yellow/Blinking	Data is being written to or read from the storage unit
	Off	Storage unit is idle
P1	Off	The 1st power supply is on
	Red	Error in 1st power supply
P2	Off	The 2nd power supply is on
	Red	Error in the 2nd power supply
Gigabit LAN LEDs 1 to 4	Green	100 Mbps Ethernet mode
	Orange	1000 Mbps (Gigabit) Ethernet mode
Serial Port P1/P2	Green	Tx: serial data is being transmitted
	Yellow	Rx: serial data is being received
Programmable LEDs 1 to 8	Green/ Blinking	Can be used to indicate statuses for debugging, as defined by users
Module LEDs 1 to 8	Green/ Orange/ Blinking	Reserved LAN-port and serial- port expansion cards

INSTALLATION

Rack Support:

The procedure outlined below is for the installation of the rack support onto the hardware device. To complete this task, you will need a cross screwdriver and the rack support kit, which is included in the package.



1. Locate the rack support kit inside the box.

2. Securely fasten the Rackmount Ear to the



4. The rack is now ready, and the OT Data Collector host can be installed on the rack.



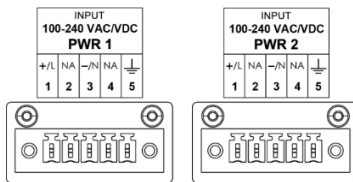
3. Attach the Side Plates on each side of the device and fasten the six screws tightly.

Power Supply



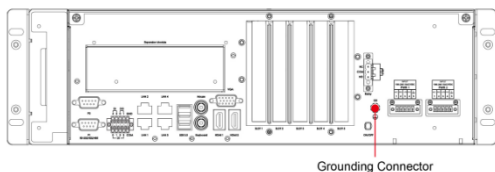
WARNING: To reduce the risk of injury from electric shock hazards, use all the security measures and the safety protection equipment needed for high voltage operations. Refer all maintenance, upgrades, and servicing to qualified personnel only.

The OT Data Collector Hardware has a dual 100 to 240 VAC/VDC power supply with the following scheme:

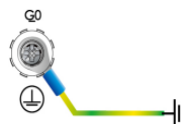


TERMINAL NUMBER	DESCRIPTION	NOTE
1	Power Line	PWR Line is connected to the Line (L) terminal for the AC power source.
	Power Positive	PWR Positive is connect to the + terminal for the DC power source
2	N/A	No function
3	Power Neutral	PWR Neutral is connected to the Neutral (N) terminal for the AC power source
	Power Negative	PWR Negative is connected to the - terminal for the DC Power
4	N/A	No Function
5	Bond Earth	Bond Earth is connected to the Chassis Ground via a jumper on the terminal block.

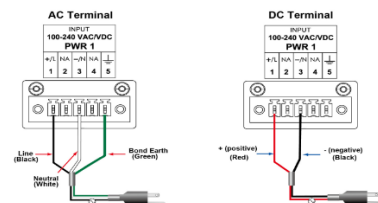
There is a grounding connector located on the rear panel of the computer:



**Ground
(Green & Yellow)**



The OT Data Collector Hardware comes with single or dual power inputs; both AC and DC power sources are supported. Refer to the following diagrams for detailed wiring methods:



ATTENTION: Please note that as stated before, there are **no power supply cables included in the box**. The user will be responsible to provide the two required cables.

NOTE: Please note that the package includes **ONLY** the power supply adaptors listed below (refer to the figure)



Front View



Side View

Rackmount Warnings

The following or similar rackmount instructions are included with the installation instructions:

- (1) **Elevated Operating Ambient:** If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than the room ambient temperature. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.
- (2) **Reduced Air Flow:** Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
- (3) **Mechanical Loading:** Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
- (4) **Circuit Overloading:** Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
- (5) **Reliable Grounding:** Reliable grounding of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g., by using power strips).