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Disclaimer

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Patents

See www.patents.datalogic.com for patent list.
This product is covered by one or more of the following patents:
Utility patent: DE202013104425U1.

Cleaning The Device

Periodically clean the Rhino II/ SH Blackline device using a soft cloth slightly dampened with only water or Isopropyl Alcohol (70%). Do not use any other cleaning agents (e.g. different alcohol, abrasive or corrosive products, solvents) or abrasive pads to clean the device.

WEEE Statement



Waste Electrical and Electronic Equipment (WEEE) Statement

English
For information about the disposal of Waste Electrical and Electronic Equipment (WEEE), please refer to the website at www.datalogic.com.

Italian
Per informazioni sullo smaltimento delle apparecchiature elettriche ed elettroniche consultare il sito Web www.datalogic.com.

French
Pour toute information relative à l'élimination des déchets électroniques (WEEE), veuillez consulter le site internet www.datalogic.com.

German
Informationen zur Entsorgung von Elektro- und Elektronik- Altgeräten (WEEE) erhalten Sie auf der Webseite www.datalogic.com.

Spanish
Si desea información acerca de los procedimientos para el desecho de los residuos del equipo eléctrico y electrónico (WEEE), visite la página Web www.datalogic.com.

Portuguese
Para informações sobre a disposição de Sucatagem de Equipamentos Elétricos e Eletrônicos (WEEE -Waste Electrical and Electronic Equipment), consultar o site web www.datalogic.com.

Chinese
有关处理废弃电气电子设备 (WEEE) 的信息, 请参考 Datalogic 公司的网站 www.datalogic.com.

Japanese
廃電気電子機器(WEEE)の処理についての関連事項はDatalogicのサイト www.datalogic.comをご参照下さい。.



Rhino™ II/ SH Blackline

Vehicle Mount Computer





852001592 (Rev. C) Dec. 2021



This document is an addendum to the Installation Guide (QSG) for this product. See the QSG for additional product information.

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www.datalogic.com



Read carefully the Rhino II/ SH Blackline user manual (available at www.datalogic.com) before performing any type of connection to the Rhino II and the SH Blackline. The user is responsible for any damage caused by incorrect use of the equipment or by inobservance of the indication supplied in the user manual.

General Safety Rules



- Before using the devices and the battery packs, read this Addendum carefully.
- Use only the components and accessories supplied by the manufacturer for the specific Rhino II/ SH Blackline being used.
- Do not attempt to disassemble the Rhino II/ SH Blackline device, as it does not contain parts that can be repaired by the user. Any tampering will invalidate the warranty.
- When replacing the battery pack or at the end of the operative life of the device, disposal must be performed in compliance with the laws in force in your jurisdiction.
- Do not submerge the Rhino II/ SH Blackline in liquid products.
- For further information or support, refer to the Datalogic web site: www.datalogic.com.

Power Supply

The device is intended to be supplied by an external DC power appropriate to the installed power supply (12-48VDC or 110/230VAC) and/or by UL Listed/CSA Certified Power Unit LPS/SELV power source which supplies power directly to the unit via the attached power connector. Any changes or modifications to equipment, not expressly approved by Datalogic could void the user's authority to operate the equipment.

Battery Information (When Installed)



Do not incinerate, disassemble, short terminals, or expose to high temperature. Risk of fire and explosion. Use specified charger only. Risk of explosion if the battery is replaced by an incorrect type. Dispose of batteries as required by local authorities.

By default, the main battery pack is disconnected at the factory to avoid damage due to excessive draining. The rechargeable battery pack is less than half of full charge when delivered. Charge the battery pack as indicated in the Quick Start Guide or in the User Manual, before using the Rhino II/ SH Blackline terminal. The battery pack autonomy varies according to many factors, such as the frequency of barcode scanning, RF usage, battery life, storage, environmental conditions, etc. Close to the limits of the working temperature, some battery performance degradation may occur. The Rhino II/ SH Blackline should be charged at an ambient temperature between 0 – 45°C (32 to 113°F). Never charge the device battery in a closed space where excessive heat can build up. As a safety precaution, the battery may stop charging to avoid overheating. The Rhino II/ SH Blackline may get warm during charging; this is normal and does not mean a malfunction. Even if the storage temperature range is wider, it is recommended to store the terminal and the batteries at environmental temperature, in order to achieve the longest battery life.



Avoid storing batteries for long periods in a state of full charge or very low charge. We recommend charging the battery pack every two to three months to keep its charge at a moderate level to maximize battery life. Annual replacement of rechargeable battery pack avoids possible risks or abnormalities and ensures maximum performance.



Use only Datalogic approved batteries and accessories for battery charging. Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions. Il y a risque d'explosion si la batterie est remplacée par une batterie de type incorrect. Mettre au rebut les batteries usagées confor mément aux instructions.

Battery Safety Guidelines



Installing, charging and/or any other action should be done by authorized personnel and following this manual. The battery pack may get hot, explode, ignite, and/or cause serious injury if exposed to abusive conditions. If the battery pack is replaced with an improper type, there is risk of explosion. Do not place the battery pack in or near a fire or other heat source; do not place the battery pack in direct sunlight, or use or store the battery pack inside unventilated areas in hot weather; do not place the battery pack in microwave ovens, in clothes dryers, in high pressure containers, on induction cook surfaces or similar devices. Doing so may cause the battery pack to generate heat, explode or ignite. Using the battery pack in this manner may also result in a loss of performance and a shortened life expectancy. To power the cradle, use only a Datalogic approved power supply. The use of an alternative power supply will void the product warranty, may cause product damage and may cause heat, an explosion, or fire. The area in which the units are charged should be clear of debris and combustible materials or chemicals. Do not use the battery pack of this terminal to power devices other than this device. Immediately discontinue use of the battery pack if, while using, charging or storing the battery pack, the battery pack emits an unusual smell, feels hot, changes colour or shape, or appears abnormal in any other way. Do not short-circuit the battery pack contacts connecting the positive terminal and negative terminal. This might happen, for example, when you carry a spare battery pack in your pocket or purse; accidental short-circuiting can occur when a metallic object such as a coin, clip, or pen causes direct connection of the contacts of the battery pack (these look like metal strips on the battery pack). Short-circuiting the terminals may damage the battery pack or the connecting object. Do not apply voltages to the battery pack contacts. Do not pierce the battery pack with nails, strike it with a hammer, step on it or otherwise subject it to strong impacts, pressures, or shocks. Do not disassemble or modify (i.e. bend, crush or deform) the battery pack. The battery pack contains safety and protection devices, which, if damaged, may cause the battery pack to generate heat, explode or ignite.



In case of leakage of liquid from the battery, avoid contact with liquid the skin or eyes. If the contact occurs, immediately wash the affected area with water and consult a doctor. Do not solder directly onto the battery pack. Do not expose the battery pack to liquids. Avoid any knocks or excessive vibrations. If the device or the battery is dropped, especially on a hard surface, you should take it to the nearest Authorised Repair Centre for inspection before continuing to use it. If your device stops working for any reason, do not use its battery on other electronic devices without a prior check and approval by an Authorised Repair Centre. Do not replace the battery pack when the device is turned on. Do not remove or damage the battery pack's label. Do not use the battery pack if it is damaged in any part. Battery pack usage by children should be supervised. Collect and recycle waste batteries separately from the device in compliance with European Directive 2006/66/EC, 2011/65, 2002/96/EC and subsequent modifications, with US and China regulatory laws and regulations about the environment.

Wireless and Radio Frequencies Warnings



Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications or attachments could damage the product and may violate laws and regulations. Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals generated by Rhino II/ SH Blackline. Datalogic recommends persons with pacemakers or other medical devices to follow the same recommendations provided by Health Industry Manufacturers Associations for mobile phones. Persons with pacemakers:

- Should ALWAYS keep this device more than twenty five (25) cm from their pacemaker and/or any other medical device;
- Should not carry this device in a breast pocket;
- Should keep the device at the opposite side of the pacemaker and/or any other medical device;
- Should turn this device OFF or move it immediately AWAY if there is any reason to suspect that interference is taking place.
- Should ALWAYS read pacemaker or any other medical device guides or should consult the manufacturer of the medical device to determine if it is adequately shielded from external RF energy.

In case of doubt concerning the use of wireless devices with an implanted medical device, contact your doctor. Turn this device OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may use equipment that could be sensitive to external RF energy. RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle. An air bag inflates with great force. DO NOT place objects, including either installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If a vehicle's wireless equipment is improperly installed and the air bag inflates, serious injury could result. Turn off the device when in any area with a potentially explosive atmosphere. Observe restrictions and follow closely any laws, regulations, warnings and best practices on the use of radio equipment near fuel storage areas or fuel distribution areas, chemical plants or where any operation involves use of explosive materials. Do not store or carry flammable liquids, explosive gases or materials with the device or its parts or accessories. Areas with a potentially explosive atmosphere are often, but not always, clearly marked or shown. Sparks in such areas could cause an explosion or fire, resulting in injury or even death.

Marking and European Economic Area (EEA)

In radio systems configured with mobile computers and access points, the frequencies to be used must be allowed by the spectrum authorities of the specific country in which the installation takes place. Be absolutely sure that the system frequencies are correctly set to be compliant with the spectrum requirements of the country.
The Radio modules used in this product automatically adapt to the frequencies set by the system and do not require any parameter settings.

European Declaration of Compliance

Hereby, Datalogic S.r.l. declares that this radio equipment is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at: www.datalogic.com. Select the Support & Service > Downloads > Product Certifications link where you can search for your specific product certification.

Česky [Czech]

Tímto Datalogic S.r.l. prohlašuje, že toto rádiové zařízení je ve shodě se směrnicí 2014/53/EU.

Dansk [Danish]

Herved erklæres Datalogic S.r.l. erklærer, at dette radioudstyr er i overensstemmelse med direktiv 2014/53/EU.

Deutsch [German]

Hiermit wird Datalogic S.r.l. erklärt, dass dieses Funkgerät der Richtlinie 2014/53/EU entspricht.

Eesti [Estonian]

Käesolevaga on Datalogic S.r.l. kinnitab, et see raadioseade on kooskõlas direktiiviga 2014/53/EL.

Español [Spanish]

Por la presente, Datalogic S.r.l. declara que este equipo de radio cumple con la Directiva 2014/53/UE.

Ελληνική [Greek]

Με το παρόν, Datalogic S.r.l. δηλώνει ότι αυτός ο ραδιοεξοπλισμός συμμορφώνεται με την Οδηγία 2014/53/ΕΕ.

Français [French]

Par la présente, Datalogic S.r.l. déclare que cet équipement radio est conforme à la directive 2014/53/UE.

Italiano [Italian]

Con la presente Datalogic S.r.l. dichiara che questa apparecchiatura radio è conforme alla Direttiva 2014/53/UE.

Latviski [Latvian]

Ar šo Datalogic S.r.l. paziņo, ka šī radioiekārta atbilst Direktīvai 2014/53 / ES.

Lietuvių [Lithuanian]

Šiuo dokumentu „Datalogic S.r.l.“ pareiškia, kad ši radijo įranga atitinka Direktyvą 2014/53/ES.

Nederlands [Dutch]

Hierbij verklaart Datalogic S.r.l. dat deze radioapparatuur voldoet aan Richtlijn 2014/53/EU.

Malti [Maltese]

Hawnhekk, Datalogic S.r.l. tiddikjara li dan it-tagħmir tar-radju huwa konformi mad-Direttiva 2014/53/UE.

Magyar [Hungarian]

A Datalogic S.r.l. kijelenti, hogy ez a rádióberendezés megfelel a 2014/53/EU irányelvnek.

Polski [Polish]

Niniejszym Datalogic S.r.l. oświadcza, że to urządzenie radiowe jest zgodne z Dyrektywą 2014/53/UE.

Português [Portuguese]

Por meio deste, a Datalogic S.r.l. declara que este equipamento de rádio está em conformidade com a Diretiva 2014/53/UE.

Slovensko [Slovenian]

Datalogic S.r.l. izjavlja, da je ta radijska oprema v skladu z Direktivo 2014/53/EU.

Slovensky [Slovak]

Týmto spoločnosť Datalogic S.r.l. vyhlasuje, že toto rádiové zariadenie je v súlade so smernicou 2014/53 / EÚ.

Suomi [Finnish]

Datalogic S.r.l. vakuuttaa täten, että tämä radiolaitte on direktiivin 2014/53 / EU mukainen.

Svenska [Swedish]

Datalogic S.r.l. förklarar härmed att denna radioutrustning överensstämmer med direktiv 2014/53 / EU.

UKCA Declaration of Conformity

Hereby, Datalogic S.r.l. declares that this radio equipment is in compliance with the Radio Equipment Regulations (RER) (S.I. 2017/1206) and that the full text of the UKCA Declaration of Conformity is available at the following internet address: <http://www.datalogic.com>. Select the Support & Service > Downloads > Product Certifications link where you can search for your specific product certification.

Information for the User

This Product is suitable for the use in all EU countries.

In the frequency band 5150-5350MHz, the device is for indoor use only.

Dynamic Frequency Selection (DFS) must remain enabled.

	AT	BE	BG	CH	CY	CZ	DE
	DK	EE	EL	ES	FI	FR	HR
	HU	IE	IS	IT	LI	LT	LU
	LV	MT	NL	NO	PL	PT	RO
	SE	SI	SK	TR	UK(NI)		

FCC ID/IC Warning

FCC Label Compliance Statement:

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.

To assure continued FCC compliance:

- Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

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.

Cet appareil radio est conforme au CNR d'Industrie Canada. L'utilisation de ce dispositif est autorisée seulement aux deux conditions suivantes: (1) il ne doit pas produire de brouillage, et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

Exposure to Radio Frequency Radiation

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Europe

This device is used at a distance greater than 20 cm from body.

Radio Technologies and Frequency Bands

Compliance with 2014/53/EU Radio Equipment Directive (RED). In accordance with Article 10.8(a) and 10.8(b) of the RED and RER - S.I. 2017/1206 Article 13.2(a) and 13.2(b).

The following table provides information on the frequency bands used and the maximum RF transmit power of the product for sale in the Europe.

	RF Module	Frequency Band	Max Transmission Power
1	BT/SRD	2400 - 2479 MHz	10mW
2	WLAN	2412 - 2472 MHz	100mW
3	WLAN	5150 - 5350 MHz	200mW
4	WLAN	5470 - 5725 MHz	200mW

NOTES