

C-BOX 150



Installation Manual



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C-BOX 150

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SAFETY PRECAUTIONS

POWER SUPPLY

ATTENTION: READ THIS INFORMATION BEFORE INSTALLING THE PRODUCT

- This product is intended to be installed by Qualified Personnel only.

The C-BOX 150 is intended to be supplied either by a UL Listed NEC Class 2 power source, or a UL Listed ITE Limited Power Source (LPS), rated 10-30 V dc, minimum 0.5 A.



The overall value of power consumption of the system (C-BOX 150 + scanner) is given by adding the scanner power consumption to that of the C-BOX 150. Refer to the manual of the connected scanner for details about minimum/maximum supply voltage and power consumption.

See par. 2.4.1 for correct power supply connections.

CE COMPLIANCE

Warning: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

WEEE COMPLIANCE



ENGLISH

Information for the user in accordance with the European Commission Directive 2002/96/EC

At the end of its useful life, the product marked with the crossed out wheeled wastebin must be disposed of separately from urban waste.

Disposing of the product according to this Directive:

- avoids potentially negative consequences to the environment and human health which otherwise could be caused by incorrect disposal
- enables the recovery of materials to obtain a significant savings of energy and resources.

For more detailed information about disposal, contact the supplier that provided you with the product in question or consult the dedicated section at the website www.automation.datalogic.com.

ITALIANO

Informazione degli utenti ai sensi della Direttiva Europea 2002/96/EC

L'apparecchiatura che riporta il simbolo del bidone barrato deve essere smaltita, alla fine della sua vita utile, separatamente dai rifiuti urbani.

Smaltire l'apparecchiatura in conformità alla presente Direttiva consente di:

- evitare possibili conseguenze negative per l'ambiente e per la salute umana che potrebbero invece essere causati dall'errato smaltimento dello stesso:
- recuperare materiali di cui è composto al fine di ottenere un importante risparmio di energia e di risorse.

Per maggiori dettagli sulle modalità di smaltimento, contattare il Fornitore dal quale è stata acquistata l'apparecchiatura o consultare la sezione dedicata sul sito www.automation.datalogic.com.

DEUTSCH

Benutzerinformation bezüglich Richtlinie 2002/96/EC der europäischen Kommission

Am Ende des Gerätelebenszyklus darf das Produkt nicht über den städtischen Hausmüll entsorgt werden. Eine entsprechende Mülltrennung ist erforderlich.

Beseitigung des Produkts entsprechend der Richtlinie:

- verhindert negative Auswirkungen für die Umwelt und die Gesundheit der Menschen
- ermöglicht die Wiederverwendung der Materialien und spart somit Energie und Resourcen

Weitere Informationen zu dieser Richtlinie erhalten sie von ihrem Lieferanten über den sie das Produkt erworben haben, oder besuchen sie unsere Hompage unter www.automation.datalogic.com.

FRANCAIS

Information aux utilisateurs concernant la Directive Européenne 2002/96/EC

Au terme de sa vie utile, le produit qui porte le symbole d'un caisson à ordures barré ne doit pas être éliminé avec les déchets urbains.

Éliminer ce produit selon cette Directive permet de:

- éviter les retombées négatives pour l'environnement et la santé dérivant d'une élimination incorrecte
- récupérer les matériaux dans le but d'une économie importante en termes d'énergie et de ressources

Pour obtenir des informations complémentaires concernant l'élimination, veuillez contacter le fournisseur auprès duquel vous avez acheté le produit ou consulter la section consacrée au site Web www.automation.datalogic.com.

ESPAÑOL

Información para el usuario de accuerdo con la Directiva Europea 2002/96/CE

Al final de su vida útil, el producto marcado con un simbolo de contenedor de bassura móvil tachado no debe eliminarse junto a los desechos urbanos.

Eliminar este producto de accuerdo con la Directiva permite de:

- evitar posibles consecuencias negativas para el medio ambiente y la salud derivadas de una eliminación inadecuada
- recuperar los materiales obteniendo así un ahorro importante de energía y recursos

Para obtener una información más detallada sobre la eliminación, por favor, póngase en contacto con el proveedor donde lo compró o consultar la sección dedicada en el Web site www.automation.datalogic.com.

C-BOX 150



Figure A

- (1) 25-pin scanner connector
- (2) Compression connectors
- (3) Cover screws (4)

C-BOX 150

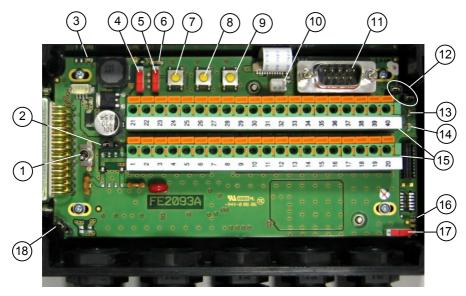


Figure B - Bottom Inside

- (1) Power on switch
- Chassis grounding jumper
- (3) Power polarity error LED (red)
- (4) RS485 Bus termin.switch
- (5) Scanner selection switch
- 6) Power on LED (green)
- (7) GET button
- (8) TEST button
- 9 SEND button

- (10) INT-30 power connector
- (1) Auxiliary port connector
- (2) OM4000 jumpers
- (13) Warning LED (red)
- (14) Status LED
- (15) Spring clamp terminal blocks
- 16 Tx LED
- (17) Configuration switch
- (18) Power source jumper

GUIDE TO INSTALLATION

The following can be used as a checklist to verify all of the steps necessary for complete installation of the C-BOX 150.

- Read all information in the section "Safety Precautions" at the beginning of this manual.
- 2) Correctly position and mount the C-BOX 150 within the reach of the barcode scanner cable, according to the information in paragraph 2.3.
- Make all electrical connections according to your application. See par. 2.4 and 2.6.
 Further typical layouts are given in the Scanner Reference Manual.
- Set all the proper configuration jumpers and switches according to your application.
 See all sub-paragraphs under 2.4.
- 5) Connect the scanner to the C-BOX 150.
- 6) Switch-on the system.
- 7) Wait until the Warning Led (WL, red) is switched off.
- 8) Through the internal 9-pin male connector, (it carries the Scanner Aux. Serial Port signals), configure the scanner according to your specific application using either the Genius™ or WinHost™ software configuration tool, see par. 1.2 for program compatibility.
- 9) Force the 'Get Scanner Configuration' procedure using the internal keys (see paragraph 2.5.1).
- 10) Wait until the Warning Led (WL, red) is switched Off.

Now the C-BOX 150 contains the scanner configuration. The installation is complete.

1 INTRODUCTION

1.1 PRODUCT DESCRIPTION

The C-BOX 150 is a connection box which can be used as an accessory to several Datalogic family scanners.

Its main feature is to make the substitution of a Datalogic scanner in an installation plain and easy.

To achieve this goal the C-BOX 150 provides the GET command to pass the connected scanner's configuration to the C-BOX 150 non volatile memory. The SEND command allows a previously saved configuration to be transferred from the C-BOX 150 to the scanner.

By default, at every power-on, the C-BOX 150 automatically sends the configuration stored in its memory to the connected scanner. Therefore the substituted scanner will be correctly configured.

The C-BOX 150 allows you to perform the following functions:

- Facilitate the connection of the scanner signals using a spring clamp connector.
- Get the scanner configuration and store it in memory.
- Force the scanner to the Test operating mode.
- Send the configuration stored in memory to the scanner.

The C-BOX 150 mechanical dimensions are $161 \times 114.5 \times 40 \text{ mm}$ (6.34 x 4.51 x 1.57 in.). The C-BOX 150 weighs about 410 g (14.48 oz).

Electrical connection is provided through spring clamp terminal blocks inside the C-BOX 150.

The scanner is connected to the C-BOX 150 through a 25-pin connector placed on the left side of the housing.

A 9-pin connector placed inside the C-BOX 150 facilitates connection between an external PC and the auxiliary serial interface of the scanner.

1.2 C-BOX 150 COMPATIBLE DEVICES

The C-BOX 150 can be connected to the following scanners through the 25-pin connector illustrated in Figure A. $\,$

Scanner	Configuration Tool
DS1100 *	WinHost™
DS2100A	WinHost™
DS2100N	Genius™
DS2200 *	WinHost™
DS2400A	WinHost™
DS2400N	Genius™
DS4600A	WinHost™
DS6X00	Genius™
DX6400	Genius™
DS8100A	Genius™
DX8200A	Genius™

^{*10} and 30 Vdc versions only

2 INSTALLATION

2.1 PACKAGE CONTENTS

Verify that the C-BOX 150 and all the parts supplied with the equipment are present and intact when opening the packaging; the list of parts includes:

- 1) C-BOX 150
- 2) Installation manual
- 3) C-BOX 150 configuration CD-ROM
- 4) 2 mounting screws
- 5) Grounding cable

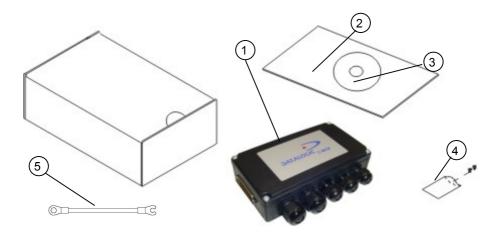


Figure 1 - C-BOX 150 Package Contents

2.2 OPENING THE DEVICE

To install the C-BOX 150 or during normal maintenance, it is necessary to open it by unscrewing the four cover screws:



The C-BOX 150 must be disconnected from the power supply during this operation.

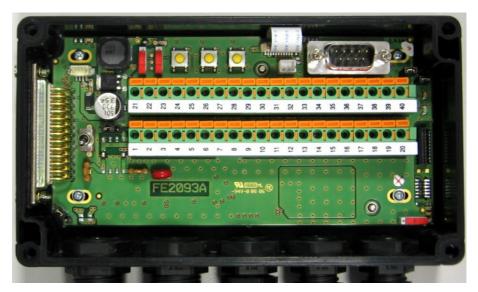


Figure 2 - Opening the C-BOX 150

It is possible to perform the following operations:

- Proceed with the cable connections (see paragraph 2.4.2).
- Mount the C-BOX 150 to a wall or panel.

2.3 MECHANICAL INSTALLATION

The diagram below gives the overall dimensions of the C-BOX 150 and may be used for its installation.

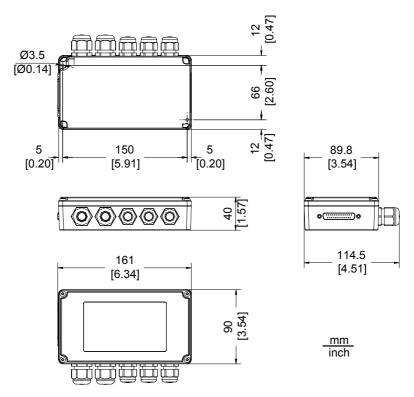


Figure 3 - Overall Dimensions

C-BOX 150 can be installed to operate in different positions. The two screw holes inside the housing of the C-BOX 150 are for mechanical fixture (Figure 4).

To mount the C-BOX 150:

- 1) Open the C-BOX 150 by unscrewing the 4 cover screws. If necessary, using the two mounting holes inside the device as a pattern, mark the panel with an appropriate object and then drill two holes in the panel.
- 2) Align the C-BOX 150 and insert two screws and screw them into the panel until tight (see Figure 4).

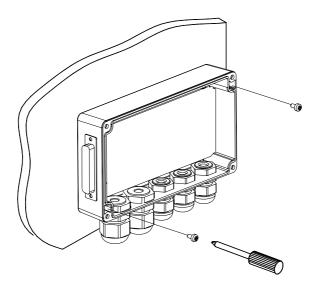


Figure 4 - Mounting C-BOX 150

2.4 ELECTRICAL CONNECTIONS AND HARDWARE SETUP

The following figure shows the typical layout.

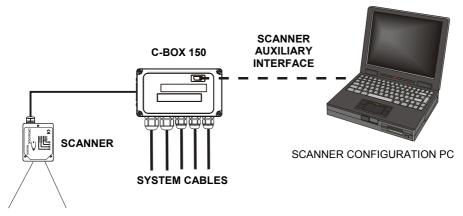


Figure 5 - System Layout

A PC can be connected to the C-BOX 150 (and consequently to the scanner auxiliary interface) through the internal 9-pin connector. This allows both scanner configuration and monitoring of the data transmitted by the scanner (see the scanner Reference Manual for more details).

The scanner auxiliary interface signals are also available on the internal spring clamp connectors.

The scanner configuration and data monitoring are possible once the warning LED is turned OFF.

The internal 9-pin connector can also be used to configure the C-BOX 150 with a PC, through the WinHost utility.

After making system cabling and switch settings, connect the scanner to the 25-pin connector on the left side of the C-BOX 150 housing.

Switch ON the C-BOX 150 power switch (see Figure 6).

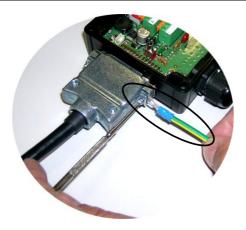
By default, after power on, an automatic connection procedure takes place between the C-BOX 150 and the scanner. During this phase, requiring a few seconds, the warning LED is turned ON. Once the procedure had been completed successfully, the warning LED is turned OFF.

To disable this automatic connection procedure, refer to WinHost Help Online.

After system functioning has been verified, close the C-BOX 150 using the 4 cover screws making sure the rubber seal is fitted correctly between the parts of the housing.



It is recommended to use the dedicated grounding cable (included in the package) to improve the C-BOX 150 noise immunity. Simply connect its open end to the scanner cable's fixing screw and the other end to the ground, as shown in the figure below.



2.4.1 Power Supply

Power is supplied to the C-BOX 150 through the pins provided on the spring clamp connector.

The power switch (see Figure 6) switches the power supply ON or OFF for both the C-BOX 150 and the connected scanner

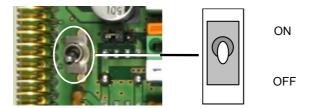


Figure 6 - Power Switch ON/OFF Positions

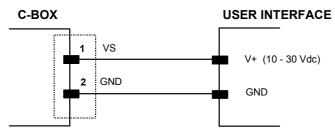


Figure 7 - Power Supply Connections

The power supply must be between 10 and 30 Vdc only.



Pin 1 is also electrically connected to pins 3 and 5, just as pin 2 is electrically connected to pins 4 and 6. This is useful for external trigger/inputs connections.



The C-BOX 150 is protected against polarity reversal. A dedicated red LED signals this condition until correct polarity is restored.

2.4.2 System Wiring

The connection and wiring procedure for C-BOX 150 is described as follows:

- 1) Open the C-BOX 150 as described in paragraph 2.2.
- 2) Verify that the C-BOX 150 power switch is off (see Figure 6).
- 3) Unscrew the compression connectors and pass all the system cables through them into the C-BOX 150 housing.
- 4) To connect the power and input/output signals:
 - Prepare the individual wires of the system cables by stripping the insulation back approximately 1 cm.

- Using a device such as a screwdriver, push down on the lever directly next to the clamp (see Figure 8).
- Insert the wire into the clamp and release the lever.

The wire will now be held in the spring clamp.

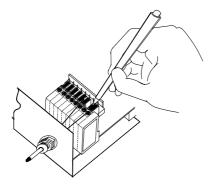


Figure 8 - System Cable Connections

The wiring used can be solid or stranded but must meet the following specifications.

All positions:

24 - 16 AWG

0.2 - 1.5 mm²

The C-BOX 150 spring clamp connector pinouts are indicated in the following table. Refer to the scanner Reference Manual for details.

	Scanner Pinouts							
Pin	Name							
1, 3, 5	VS							
2, 4, 6	GND							
7, 8	EARTH GROUND							
*9, 13	RS485 CABLE SHI	FLD						
20, 40	RESERVED							
35	TX AUX							
37	RX AUX							
	DS1100 DS2200	_	2100A 2400A	DS21 DS24		DS4600	Α	DS6X00 DX6400 DS8100A DX8200A
21	OUT1+	0	UT1+	OUT	1+	OUT1+		OUT1+
22	IO REF		JT REF	OUT		OUT1-		OUT1-
23	OUT2+	0	UT2+	OUT	2+	OUT2+		OUT2+
24	IO REF	OL	JT REF	OUT	Г2-	OUT2-		OUT2-
25	NC		NC	NO		RESERVI	ΞD	OUT 3A
26	IN1-		NC	NO		RESERVI	ΞD	OUT 3B
27	EXT TRIG+	EXT	ΓTRIG+	EXT TF	RIG A	EXT TRIC	3+	EXT TRIG/PS A
28	EXT TRIG-	EX	T TRIG-	EXT TF	RIG B	EXT TRI	G -	EXT TRIG/PS B
29	NC		NC	NO		IN1+		IN 2/ENC A
30	IO REF		NC	IN2	2-	IN1-		IN 2/ENC B
31	NC		NC	NO		IN2+		IN 3A
32	NC		NC	NO		IN2-		IN 4A
33	RESERVED	RES	SERVED	RESEF	RVED	RESERVI	ΞD	IN 3A
34	RESERVED	RES	SERVED	RESEF	RVED	RESERVI	ΞD	IN 4A
36	NC	F	RTSA	ID-N	ET-	GND		IN 3B/IN 4B
38	NC		CTSA	ID-N	ET+	SGND AL	JX	GND
39	SGND	S	GND	GN	D	SGND		GND
								•
DS2	100A/N DS2400	A/N	DS4600	A DS6>	(00 D	X6400 DS	810	0A DX8200A
	RS232		RS48	5FD	RS	485HD		20mA CL (with INT-30 only)
*11, 15	TX232		TX4		RTX485+			
*12, 16	RTS232		TX485-		R	RTX485-		See INT-30
17	RX232	RX232		RX485+				instructions
18	CTS232	CTS232		RX485-				
*10, 14, 19	SGND MAIN		SGND MAIN SGN		ND MAIN			
			DS11	100 DS	2200			
			D31	100 03/		40EUD		
*44 45				RS485HD		-		
*11, 15	1				TX485+			
*12, 16						TX485-		
17			 			SERVED		
18						SERVED		
*10, 14, 19					SGI	ND MAIN		

^{*} The signals on pins 9, 10, 11 and 12 are repeated on pins 13, 14, 15 and 16 to facilitate network connections (i.e. Multiplexer connections using the RS485 half-duplex Interface). In this way the network bus can enter and exit the C-Box 150 from different spring clamps but be physically connected together.

2.4.3 Scanner Chassis Grounding Jumper Settings

The scanner chassis grounding method can be selected by positioning a jumper (see Figure 9). In this way the scanner chassis can be connected to earth ground (only if pins 7 or 8 are connected to a good earth ground) or to the power supply ground signal. The scanner chassis can also be left floating but, in this case, the jumper must be removed.

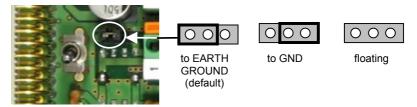


Figure 9 - Chassis Grounding

2.4.4 Scanner Selection

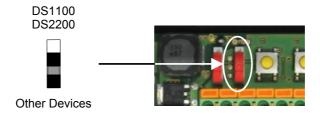


Figure 10 - Scanner Selection Switch

This switch must be set upward only when a DS1100 or a DS2200 scanner (10-30 V version) is connected. For all the other devices the switch must be set downward.

2.4.5 RS485 Bus Termination

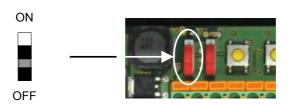


Figure 11 - Termination Resistance Switch

This switch enables or disables the insertion of the bus termination resistor for RS485 Half Duplex Multidrop applications.



CAUTION

In Multiplexer applications the termination resistor must be enabled ONLY on the last device of the chain, the farthest away from the Multiplexer (assuming the Multiplexer is the first device of the chain). On all the other devices this resistor MUST NOT be enabled (OFF position).

2.4.6 Powering C-BOX 150 From A Scanner

In order for C-BOX 150 to accept power from the scanner through the 25-pin connector instead of the external power supply, a jumper can be positioned as indicated in Figure 12.

This is useful, for example, in a typical Master Slaves layout with a Power Supply Unit connected to the scanners (see paragraph 2.6) or to pass power to connected accessories such as Encoder and Presence Sensor from DX8200A VAC models or other scanner layouts. See the relative scanner Reference Manual for details.

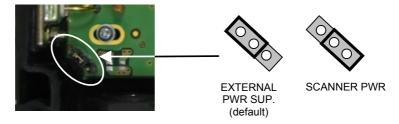


Figure 12 - C-BOX 150 Power Source Jumper

2.4.7 OM4000 Jumper Settings

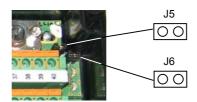


Figure 13 - OM4000 Jumpers

The jumpers allow connection to the EXT TRIG signals on separate spring clamp terminals for applications which use the OM4000 Oscillating Mirror in Trigger Mode.

They are used together and they have the following significance: when a jumper is in the J5 position (see Figure above) pin 40 is connected to pin 27 (EXT TRIG+); a jumper in J6 position connects pin 20 to pin 28 (EXT TRIG-). If the jumpers are removed pin 20 and pin 40 are disconnected.

2.4.8 Configuration Switch And 9-Pin Internal Connector

The 9-pin internal connector may have two different functions according to the position of the configuration switch.



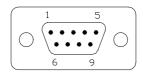


Figure 14 - Configuration Switch and 9-pin Male Connector

POSITION MODE



Normal Operation (default): In this position, the C-BOX 150 is in the normal operating mode. The configuration PC communicates with the scanner through the 9-pin internal connector and the scanner auxiliary serial interface. The internal connector pinout is illustrated in the following table:

9-pin C-Box 150 connector pinout in Normal mode			
Pin	Name	Function	
1		NC	
2	RXA	Auxiliary RS232	
3	TXA	Auxiliary RS232	
4		NC	
5	GND	Ground	
6		NC	
7	RESERVED	Device Dependent Signal	
8	RESERVED	Device Dependent Signal	
9		NC	

POSITION

MODE



CFG: When the switch is in this position, the C-BOX 150 can be configured. The communication with the scanner is interrupted and pins 2 and 3 are no longer dedicated to the scanner auxiliary interface but to the C-BOX 150 configuration (see table below). The C-BOX 150 enters configuration mode and waits to be configured through WinHost (see WinHost Help On Line).

Once the C-BOX 150 configuration is completed, it is necessary to return the switch in the Normal Operation position. At the end of the reboot phase, the C-BOX 150 is ready to function with the new configuration.

9-pin C-Box 150 connector pinout in Configuration mode			
Pin	Name	Function	
2	RX	C-BOX 150 Configuration	
3	TX	C-BOX 150 Configuration	
5	SGND	Signal Ground	



CAUTION

When the C-BOX 150 configuration is completed, remember to return the Configuration switch in the Normal Operation position.

2.5 OPERATING MODES

With the C-BOX 150, the following operating modes are possible:

Normal Operation: At power on, the C-BOX 150 tries to connect to the scanner. Once the connection procedure is completed the C-BOX 150 verifies if an Automatic SEND command must be executed. While executing the command, the serial Auxiliary interface is not available for the user. After the command completion, the warning LED will turn OFF and the Aux interface will become free for communication.

After the initialization procedure, in the Normal operating mode the scanner reads barcodes and communicates with the host.

Also in this mode, through the C-BOX 150 internal buttons it is possible to communicate with the scanner to perform one of the three GET/TEST/SEND Functions (see paragraph 2.5.1).

Configuration (CFG): When the CFG switch is in CFG position (left) it is possible to configure the C-BOX 150 parameters through WinHost.

2.5.1 GET/TEST/SEND Functions

The C-BOX 150 has three internal function buttons which are available in the Normal operating mode.

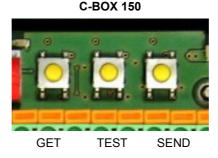


Figure 15 - Internal Function Buttons

The procedure to enable the GET/TEST/SEND function is the following:

 Press both the left and right buttons at the same time for at least one second; the warning LED will turn ON.

- 2. Release the buttons.
- Press the left button corresponding to the GET function, the center button corresponding to the TEST function or the right button corresponding to the SEND function.



Once the buttons are released in step 1, a ten-second timeout starts. If no button is pressed within this time (no function is selected), the procedure will be cancelled.

NOTE

The C-Box 150 warning LED will turn OFF at the end of each procedure.

Function	Description
GET (left button)	The C-BOX 150 reads the current scanner configuration and permanently copies it in its own memory support. The C-BOX 150 preserves this configuration also when switched off. The GET option can be disabled through WinHost.
TEST (center button)	The C-BOX 150 forces the WinHost™ compatible scanners only to run the Test Operating Mode (refer to the scanner Reference Manual for details). Press any button to quit the Test Operating Mode and restore the scanner normal operating mode.
	For Genius™ compatible scanners you should use the scanner keypad.
SEND (right button)	The C-BOX 150 sends the configuration previously stored in its own permanent memory support to the scanner's memory. The SEND option can be disabled through WinHost; by default it is Automatic.



NOTE

To override the eventual default Automatic SEND service, it is possible to preset a GET service by executing the enabling procedure immediately at power-on.

2.5.2 LED Indicators

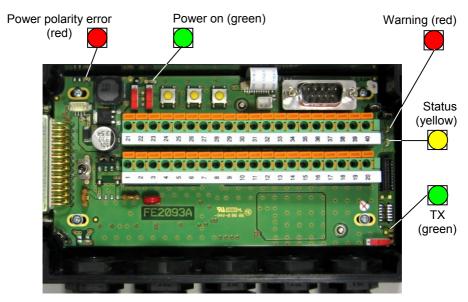


Figure 16 - LED Indicators

The internal LEDs of the C-BOX 150 (see Figure above) indicate the following:

POWER ON (PWR) (green) indicates the C-BOX 150 is connected to the

power supply and the power switch is ON.

POWER POLARITY ERROR (red) indicates a wrong polarity. While activated, all other

LEDs will be off until the power feed is connected with

correct polarity.

WARNING (WL) (red) indicates a warning or error condition.

Off: the C-BOX 150 has terminated the Connection and/or the Update phase; all the operations have been executed successfully.

ON: during a connection procedure and/or the Update phase (the system is busy) or during the C-BOX 150 Configuration Mode.

It flashes quickly when a GET command has been preset

at power on.

1 blinking/sec: a requested operation has been terminated abnormally.

2 blinking/sec: a wrong operation has been requested (for example the configuration in memory is not compatible with the connected scanner).

STATUS (SL)

(yellow) indicates the status of the non-volatile memory support.

Off: the memory is empty (no configuration on board).

1 blinking/sec: the memory is not empty (a Get scanner configuration service has been executed)*.

2 blinking/sec: the memory is not empty (a Get Scanner Configuration service has been executed); however the saved configuration is not compatible with the current scanner one.

TRANSMISSION (TX)

(green) indicates there is communication between the C-BOX 150 and the scanner. This LED blinks during the connection procedure.

^{*} This is the typical state after correct system installation.

2.6 TYPICAL LAYOUTS

2.6.1 1000, 2000A/N, 4000 Family Scanners

For 1000, 2000A/N and 4000 scanner families which operate in a point-to-point single scanner configuration, a typical layout is shown below and the C-BOX 150 is connected as follows.

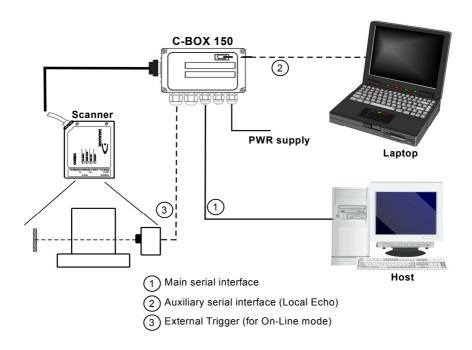


Figure 17 - Typical point-to-point scanner Layout

2.6.2 2000N Family Scanners

For 2000N scanner families which operate in an ID-NET™ network configuration, a typical layout is shown below and the C-BOX 150/100s are connected as follows.

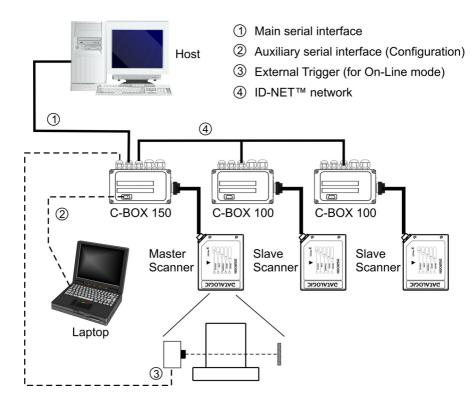


Figure 18 - Typical ID-NET™ scanner Layout

C-BOX 150 can perform Backup/Restore of a whole cluster under the following conditions:

- the Master/Slave network is composed of one master and up to 9 Slaves maximum
- the Master/Slave network must be either Synchronized or Multidata

In order to perform Backup/Restore of Master only, the C-BOX 150 Cluster GET/SEND parameter must be configured to "Master only", see the *WinHost Help On-Line*.

2.6.3 6000, 8000 Family Scanners

For the 6000 and 8000 scanner families, the C-BOX 150 can operate in both point-topoint single scanner configuration layouts, and in a network cluster of scanners in Master/Slave layouts.

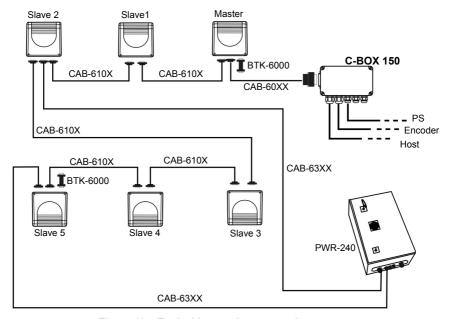


Figure 19 - Typical Lonworks scanner Layout



In a Master/Slave layout with a great number of Slaves, a Power Supply Unit can be connected to the scanners and the C-BOX 150 can accept the scanner power by setting the Power Source Jumper in the right position. See paragraph 2.4.6

C-BOX 150 can perform Backup/Restore of a whole cluster under the following conditions:

- the Master/Slave network is composed of one master and up to 9 Slaves maximum
- the Master/Slave network must be either Synchronized or Multidata
- the A.S.R. mode must be disabled.

In order to perform Backup/Restore of Master only, the C-BOX 150 Cluster GET/SEND parameter must be configured to "Master only", see the *WinHost Help On-Line*.

2.7 SCANNER REPLACEMENT

If you have to replace the scanner with another one:

- 1. Switch-off the system.
- 2. Connect the new scanner.
- 3. Switch-on the system.
- 4. Wait until the Warning Led (WL, red) is switched Off.

Now the new scanner has been automatically (default) updated with the correct configuration!

3 TECHNICAL FEATURES

ELECTRICAL FEATURES			
Power			
Supply voltage	10 to 30 Vdc		
Power consumption max.	2.5 W + scanner		
USER INTERFACE			
LED indicators	Power ON, Warning, Status		
	Tx, Polarity inversion		
PHYSICAL FEATURES			
Mechanical dimensions	161 x 114.5 x 40 mm (6.34 x 4.51 x 1.57 in)		
Weight	about 410 g. (14.48 oz.)		
SOFTWARE FEATURES			
Parameter storage	Non-volatile internal memory		
ENVIRONMENTAL FEATURES			
Operating temperature	-10 to 50 °C (14 to 122 °F)		
Storage temperature	-20 to 70 °C (-4 to 158 °F)		
Humidity max.	90% non condensing		
Vibration resistance IEC 68-2-6 test FC	14 mm @ 2 to 10 Hz; 1.5 mm @ 13 to 55 Hz; 2g @ 70-200 Hz 2 hours on each axis		
Shock resistance	30g; 11 ms;		
IEC 68-2-27 test EA	3 shocks on each axis		
Protection class	IP64 (when correctly connected to the scanner)		



The features given are typical at a 25 $\,^\circ\!\text{C}$ ambient temperature (if not otherwise indicated).

NOTE

CONFORMITY



Datalogic Automation S.r.l., Via S. Vitalino 13 40012 - Lippo di Calderara Bologna - Italy

dichiara che declares that the déclare que le bescheinigt, daß das Gerät declare que el

C-BOX-XXX Connection Box:

e tutti i suoi modelli and all its models et tous ses modèles und seine Modelle v todos sus modelos

sono conformi alle Direttive del Consiglio Europeo sottoelencate: are in conformity with the requirements of the European Council Directives listed below: sont conformes aux spécifications des Directives de l'Union Européenne ci-dessous: der nachstehend angeführten Direktiven des Europäischen Rats: cumple con los requisitos de las Directivas del Consejo Europeo, según la lista siguiente:

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92/31/EEC, 93/68/EEC

emendamenti successivi further amendments ses successifs amendements späteren Abänderungen succesivas enmiendas

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EN 55022 (CLASS A ITE), August 1994: AMENDMENT A1 (CLASS A ITE), October 2000 LIMITS AND METHODS OF MEASUREMENTS OF RADIO DISTURBANCE CHARACTERISTICS OF INFORMATION TECHNOLOGY EQUIPMENT

EN 61000-6-2, October 2001:

ELECTROMAGNETIC COMPATIBILITY (EMC). PART 6-2: GENERIC STANDARDS - IMMUNITY FOR INDUSTRIAL **ENVIRONMENTS**

Lippo di Calderara, April 2nd, 2007

Lorenzo Girotti Product & Process Quality Manager neus fulla



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