BLACK COPPER
Upgrades network

QUICK START GUIDE

2D OMNIDIRECTIONAL DESKTOP BARCODE SCANNER

BC460

2D imager · 60 fps · 360° roll · USB



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Please read this guide before using the scanner and keep it for future reference.

01

OVERVIEW

Getting to know your scanner



1. Scan window
2. Illumination lamp
3. Imager camera
4. Tilting head (22°)
5. Weighted base

Features

- Hands-free – present the item, there is no trigger to press
- Reads 1D and 2D codes: QR Code, PDF417 and Data Matrix included
- 60 fps imager, ±50° pitch and skew, 360° roll
- Head tilts through 22° to suit the counter
- LED and beeper confirm every read
- Plug and play USB – no driver needed
- Weighted base and a fixed cable that cannot be pulled out

Where to use it

- Supermarket and convenience store checkouts
- Pharmacies and service counters
- Retail returns and stock checks
- Ticket, coupon and membership validation
- Libraries and reception desks

WHAT'S IN THE BOX

NO.	ITEM	QTY
1	BC460 scanner	1 pc
2	Quick start guide	1 pc

Open the package and check that all items are complete and undamaged. If anything is missing or damaged, keep the packaging and contact your supplier.

02

SETUP

Connecting and scanning

1. Place the scanner on a stable, level surface and tilt the head so the window faces the operator or the customer.
2. Plug the USB cable into a free USB port of the computer or POS terminal.
3. The scanner beeps three times and is ready – no driver or software is needed. It types the scanned data like a keyboard.
4. Click into the field of your POS or other software where the code should go, and present a barcode to the window.



Fixed USB cable at the back



Head tilts through 22°

Scanning tips

- Present the code flat towards the window – any rotation works.
- Hold small barcodes closer to the window, large barcodes a little further away.
- Reading distance is roughly 40–100 mm, depending on the code and its size.
- For glossy or reflective labels, tilt the item slightly to avoid glare.

Indicator light

LIGHT	MEANING
Blinking	A code has been decoded

Beeper

BEEPS	MEANING
One beep	A code has been decoded
Two beeps	A setting was applied
Three beeps	The scanner has powered on

03

MAINTENANCE

Care, safety and troubleshooting

Caring for the scan window

- Keep the scan window clean – dirt and scratches reduce reading performance.
- Remove dust from the window with a soft brush.
- Wipe the window with a soft cloth, such as a glasses or lens cleaning cloth.
- Never spray liquid onto the window and never use solvents – only a cloth lightly moistened with water.
- Protect the window from hard and sharp objects.

Safety

- Use the scanner indoors at 0–50 °C and 5–95% humidity (non-condensing).
- Do not open or take the scanner apart – this voids the warranty.
- Do not look into the illumination light directly with optical instruments.
- Keep the scanner away from water, heat and strong vibration.
- The data cable is fixed. Do not pull or twist it, and unplug at the computer end.
- If the scanner stops responding, unplug the USB cable, wait a few seconds and plug it in again.

TROUBLESHOOTING

PROBLEM	WHAT TO DO
Nothing happens when the scanner is connected	Check the USB cable at the computer end, or try another USB port. Three beeps on power-up mean the scanner has started.
The scanner beeps but no text appears	Click into a text field first, so the computer has somewhere to type.
Wrong characters appear (e.g. @ instead of ")	The keyboard layout on the computer does not match the one set on the scanner – set the matching country layout.
A barcode is not read at all	Check that the barcode is complete and not damaged, and that its type is in the list on the specifications page.
The code is read but arrives in the wrong place	Check that the cursor is in the right field of your POS or other software.
Reading is slow or needs several tries	Clean the scan window, hold small codes closer and large codes further away, and tilt glossy labels slightly to avoid glare.

Need help? Contact the dealer you purchased the scanner from, or BlackCopper at **sales@blackcopper.net**. Please have the model (BC460) ready.

REFERENCE

Specifications

GENERAL

Brand	BlackCopper
Model	BC460
Scanner type	2D area imager, hands-free presentation
Interface	USB HID keyboard or USB virtual COM port
Cable	Fixed USB cable, not detachable
Head adjustment	Tilts through 22°
Feedback	LED indicator and beeper
Colour	Black
In the box	Scanner, quick start guide

SCAN PERFORMANCE

Image sensor	640 × 480 CMOS
Light source	Red LED
Decoding speed	60 fps
Scan angle	Pitch ±50° Skew ±50° Roll 360°
Field of view	63° (H) × 49° (V)
Min. resolution	4 mil
Min. print contrast	≥ 25% (UPC/EAN-13, 13 mil)
Data editing	Custom prefix, suffix and output formats
Keyboard layouts	Multiple country layouts

SYMBOLOGIES

1D	EAN-13, EAN-8, UPC-A, UPC-E0, UPC-E1, Code 128, Code 39, Code 93, Code 11, Codabar, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, Standard 2 of 5, MSI Plessey, Plessey, GS1 DataBar (RSS-14, Limited, Expanded), GS1 Composite
2D	QR Code, PDF417, Data Matrix

DEPTH OF FIELD

EAN-13, 13.34 mil	50–100 mm
PDF417, 13.34 mil	50–90 mm
Code 128, 5 mil	40–80 mm
QR Code, 20 mil	50–80 mm

ELECTRICAL

Input voltage	5 V DC ±5%
Operating current	150 mA
Power source	USB bus powered

PHYSICAL & ENVIRONMENT

Dimensions	94 × 100 × 152 mm (L × W × H)
Weight	500 g
Operating	0–50 °C 5–95% humidity, non-condensing
Storage	−40–60 °C

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BC460



SUPPORT AND DISTRIBUTOR PRICING

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