



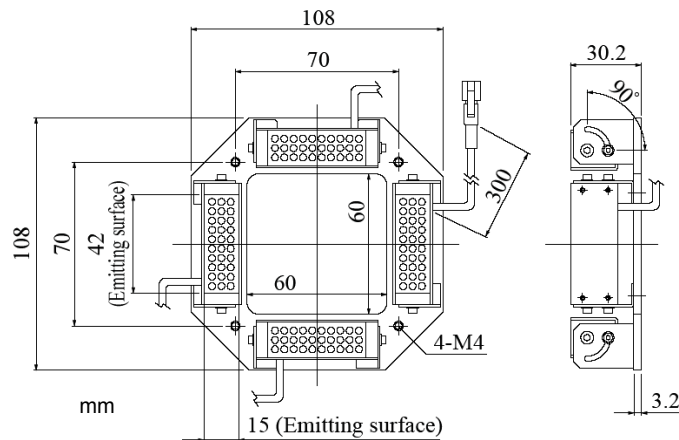
LT-630 FOUR BAR LIGHTING SYSTEM FOR MATRIX FAMILY READERS



DESCRIPTION

The LT-630 Four Bar Lighting System is designed for Code verification applications according to ISO/IEC 15415 or ISO/IEC 15416 specifications.

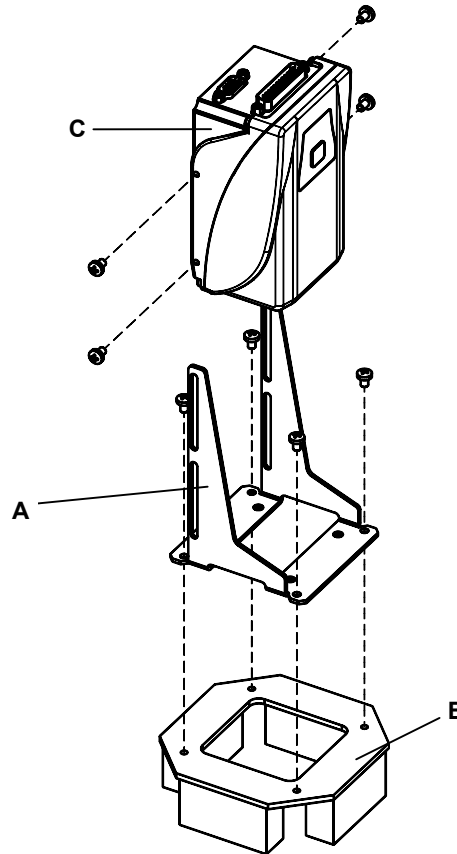
MECHANICAL DIMENSIONS



MOUNTING Matrix-1000/2000™

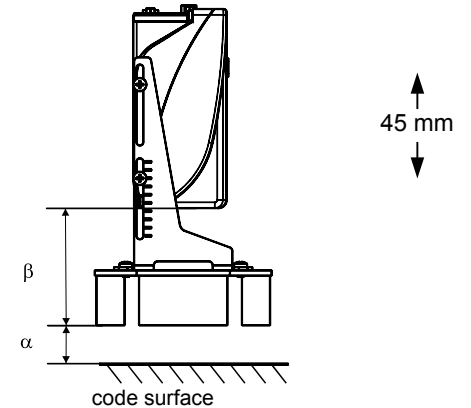
The following parts are required for mounting:

- LT-630 Four Bar Lighting System
- BK-630 Four Bar Lighting System Bracket
- LTC-630 Four Bar Lighting System Controller



1. Mount the bracket **A** onto the LT-630 illuminator **B** using 4 of the M4 screws in the bracket package.
2. Mount the reader **C** onto the illuminator assembly through the positioning slots on the bracket. Use the other 4 M4 screws in the bracket package.
3. Connect the LT-630 Four Bar Lighting System wires to the LTC-630 Power Supply Controller through the adapter cable included in the LTC-630 package. Optionally, one of the Matrix digital outputs can be used to switch the illuminator on/off at the LTC-630.
4. Position the Matrix assembly over the code reading area at the correct Focus Distance for your model, (described in the Matrix Reference Manual under "Reading Features").

POSITIONING Matrix-1000/2000™



$$\text{Focus distance} = \alpha + \beta$$

The best results for this illuminator are obtained when α is approximately 30 mm (1.2"). The positioning slots on the brackets allow adjustment to obtain the best results between the reader optimal focus distance and the illuminator optimal working distance. You can maximize the reading performance through VisiSet™.

TECHNICAL FEATURES

Supply Voltage	12 Vdc
Power Consumption	0.5 A; 6 W max.
Optimal Working Distance	30 mm (1.2")
Effective Working Range	25 - 35 mm (1" - 1.4")
Illumination Area	(50×50) mm ² @ 30 mm ((2" x 2") sq" @ 1.2")
Wavelength	660 nm
Max. LED Output Power	67 mW to EN60825-1
Typical Irradiance	0 - 90 W/m ² @ 30 mm
Operating Temperature	0 - 40 °C
Dimensions (L x W x H)	108 x 108 x 30.2 mm (4.25" x 4.25" x 1.2") (without bracket)
Weight	350 g. (without bracket)



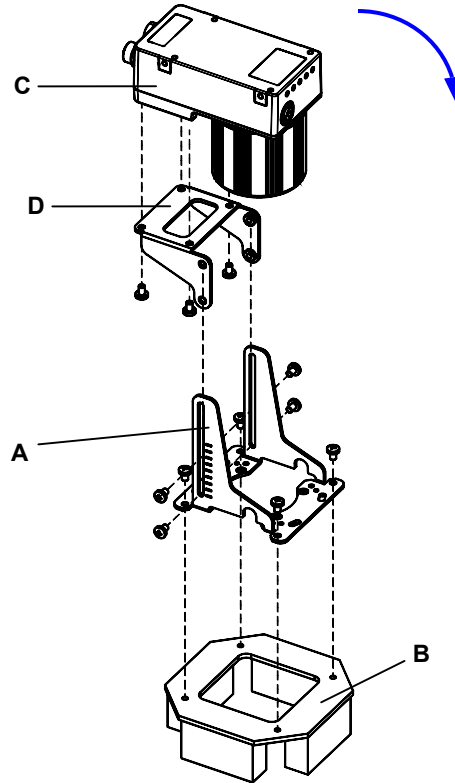
NOTE

All LED Bars are positioned at 45° angles toward the center of the illumination area.

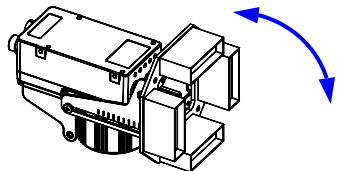
MOUNTING Matrix 400™

The following parts are required for mounting:

- LT-630 Four Bar Lighting System
- BK-4990 Matrix 400™ Generic LT Bracket
- LTC-630 Four Bar Lighting System Controller

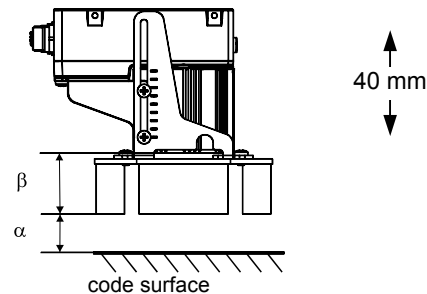


1. The BK-4990 bracket comes already partially mounted (**D+A**) with 2 M4 screws.
2. Mount the bracket **A** onto the LT-630 illuminator **B** using the 4 M4 screws in the bag marked "Screws for Brackets-LT-314/LT-316/LT-511/LT-630 assembling".
3. Swing the bracket **D** 90° and mount the reader **C** onto it through the mounting holes on the bracket. Use 4 of the M4 screws in the bag marked "Screws for Bracket-Bracket-Reader assembling".



4. Connect the LT-630 Four Bar Lighting System wires to the LTC-630 Power Supply Controller through the adapter cable included in the LTC-630 package. Optionally, one of the Matrix digital outputs can be used to switch the illuminator on/off at the LTC-630.
5. Remove the Lens Cover and loosen the Locking Knobs as described in the Reference Manual. Swing the bracket **D** 90° returning to the reading position.
6. Position and mount the Matrix assembly over the code reading area at the correct Focus Distance (or range) for your model, (described in the Matrix Reference Manual).
7. Perform the Focusing procedure described in the Reference Manual.
8. After Focusing, tighten the Focus and Diaphragm Locking Knobs. Swing the bracket **D** 90° as previously shown to replace the Lens Cover. Swing the bracket **D** 90° returning to the reading position and fix the reader assembly (**C+D**) to the illuminator assembly (**A+B**) with the remaining 2 M4 screws from the bag marked "Screws for Bracket-Bracket-Reader assembling".

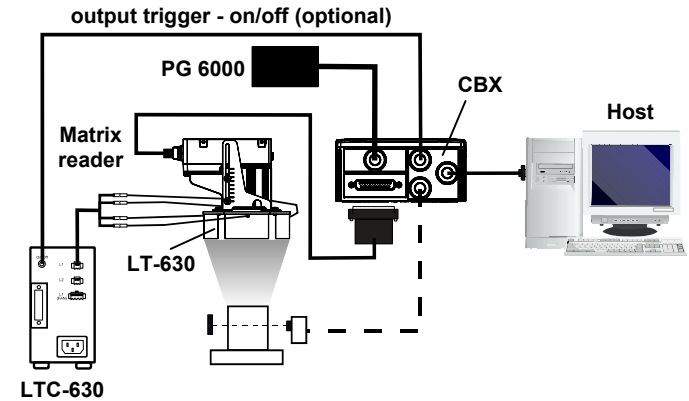
POSITIONING Matrix 400™



$$\text{Focus distance} = \alpha + \beta$$

The best results for this illuminator are obtained when α is approximately 30 mm (1.2"). The positioning slots on the brackets allow adjustment to obtain the best results between the reader optimal focus distance and the illuminator optimal working distance. You can maximize the reading performance through VisiSet™.

LT-630 LAYOUT



COMPLIANCE

LED Class

LED RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LED PRODUCT TO EN 60825-1:(2001)

The illuminator is classified as a Class 2 LED product according to EN 60825-1 regulations.

Disconnect the power supply when opening the device during maintenance or installation to avoid exposure to hazardous laser light.

The illuminator can be switched off through a software command (see also the VisiSet Help On Line).

The LEDs used in this device are classified as class 2 LED products according to EN 60825-1 regulations.

Any violation of the optic parts in particular can cause radiation up to the maximum level of the LEDs (67 mW at 660).

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.