



# LJ-X8000A

Raw data output controller



\*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

## Specifications

|                                   |                             |  |
|-----------------------------------|-----------------------------|--|
| Model                             |                             | LJ-X8000A  |
| Head input                        |                             | Up to 1 head<br>Compatible with LJ-X8000 series heads and LJ-V7000 series heads  |
| Sampling cycle (trigger interval) |                             | When connecting the LJ-X8000 Series: maximum speed of 16 kHz (63 $\mu$ s) *1<br>When connecting the LJ-V7000 Series: maximum speed of 64 kHz (16 $\mu$ s) *2<br>(Luminance output types for model designations ending with B have a maximum speed of 8 kHz (125 $\mu$ s)) *3 |
| Interface                         | Control input               | Supports the batch measurement start (MEASURE_START) and batch measurement stop (MEASURE_STOP).  |
|                                   | Control output              | •Supports the trigger ready (READY) and system error (ERROR).<br>•Photo MOSFET*4   |
|                                   | Synchronous input / output  | For trigger synchronization of multiple controllers*5  |
|                                   | Ethernet                    | Supports the profile output, setting, controll, 1000BASE-T/100BASE-TX*6  |
| Encoder input                     |                             | One system<br>RS-422 line driver output (with 5 V output: Up to 150 mA),<br>Open collector output (5 V / 24 V compatible) combined use   |
| Response frequency                | RS-422                      | Single phase/Z-phase : 1.6 MHz<br>2-phase/1-multiplier : 1.6 MHz<br>2-phase/2-multiplier : 3.2 MHz,<br>2-phase/4-multiplier : 6.4 MHz  |
|                                   | Open collector (OC)         | Single phase/Z-phase : 100 kHz<br>2-phase/1-multiplier : 100 kHz<br>2-phase/2-multiplier : 200 kHz,<br>2-phase/4-multiplier : 400 kHz  |
| Laser ON input                    |                             | Non-voltage Input (a short circuit via the short pin at the time of shipment from the factory)   |
| Ratings                           | Power voltage               | 24 VDC $\pm$ 10%   |
|                                   | Maximum current consumption | 1.3A   |
| Environmental resistance          | Ambient temperature         | 0 to + 45 °C (DIN rail mounting) / 0 to + 40 °C (side mounting)  |
|                                   | Relative humidity           | 85% RH or less (no condensation)   |
| Weight                            |                             | Approx. 700 g  |

\*1 When the measurement range is narrowed in accordance with the binning settings.  
\*2 When the measurement range is set to minimum, binning is ON, and parallel imaging is ON. All other settings are default values.  
\*3 When binning and parallel imaging are both ON. All other settings are default values.  
\*4 Both plus common connection for NPN input devices and minus common connection for PNP input devices are possible.  
\*5 Dedicated to synchronous I/O between controllers (LJ-X8000A).  
\*6 The communication library (DLL) and the sample program are included in the PC application (LJ-H2X).

# Dimensions

\* Download CAD file or product manual for larger image/text and more detail.

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