

Installation Guide



Lumidigm Biometric
Reader Module

General

The RM-LUM-M320-IT/A uses the Lumidigm Mercury sensor, an optical biometric fingerprint module that uses multispectral imaging technology.

Module Power Loading

150mA @12V Terminal Power IN

Key features include

- Verify (1:1) and Identify (1:N) modes of operation
- Finger Sensor sealed to IP65
- Easy installation
- Simple USB Connection

The biometric fingerprint reader is housed in a module that slots on to the terminal back panel and is secured in position using a single screw.

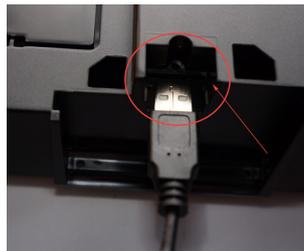
Fitting the Reader Module

This module can be used with the GT10 (RM-LUM-M320-A) or IT51E and GT4 (RM-LUM-M320-IT) type terminals.

Ensure the terminal is powered down and then follow the procedure below.

1. GT10 Only

Feed USB cable through the aperture in the back plate before attaching module.



2. Fit Module to Back Panel

Slide the Fingerprint Module into the groove in the bottom aperture of the Back Panel as shown below.

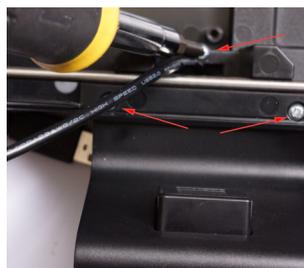


3. Secure Module with Screw(s)

The module is secured using the single screw (IT51E & GT4) or 3 screws (GT10) provided as shown. Screw tension should be sufficient to hold module firmly but avoid over tightening.



GT10 Only.
Fit the 2
longer screws
at the front.



4. Connect Module

Feed the USB cable through the bottom aperture in the Back Panel and connect to an available USB port inside the unit.

GT10 +
RM-LUM-M320-A



IT51E +
RM-LUM-M320-IT



GT4 +
RM-LUM-M320-IT



Note: The RM-LUM-M320-IT/A reader can be connected to any of the 6 USB ports found on the IT51E/GT10 terminal front panel assembly or any of the 4 USB ports found on the GT4 terminal front panel.



Enrolling Fingers and Using the Sensor

For best results it is recommended that the equipment is used with a 'light/consistent touch', i.e. the finger should be presented in a consistent manner, with only light pressure applied to the sensor. Research has shown that pressing the finger hard on the sensor can reduce the quality of a scan and this in-turn can impact on the performance of the device.

User Capacities

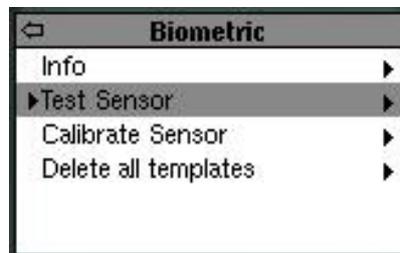
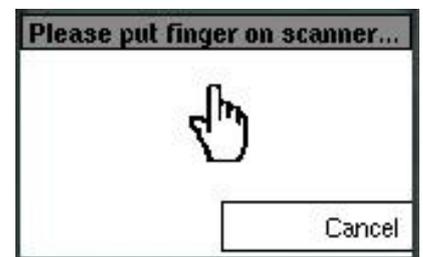
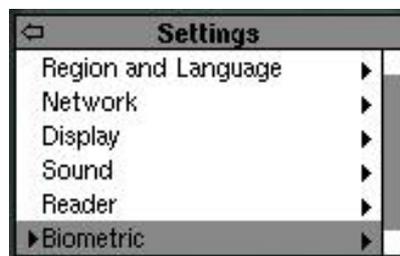
When operating the Lumidigm reader in Identify mode (1:N), the device has a capacity for 500 or 2000 depending on Terminal firmware, with 2 fingers per user. The maximum number of users possible when operating the device in Verify mode (1:1) is dependent upon the terminal type and terminal memory allocation.

Fingerprint Reader Setup/Test

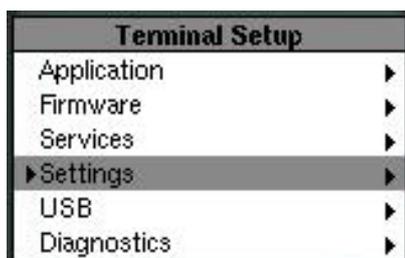
Once connected, the RM-LUM-M320-IT/A module will automatically be detected when the terminal is powered on, no hardware configuration is required.

It is possible to confirm the basic operation of the module using the Biometric/Test Sensor function that can be found within the Terminal Setup menus.

The Test Sensor option on the terminal is accessible via the following Setup menu screens:



Place finger on sensor, hold in position and after several seconds a graphical representation of the fingerprint should appear on the terminal display.



Please note, the Calibrate Sensor function is not supported by the Lumidigm biometric reader



Sensor Cleaning

Dampen a lint-free cloth or cotton swab with alcohol. Gently rub the cloth across the finger sensor in a left and right direction. Move slowly down the sensor to ensure the entire surface is cleaned. Repeat this process 2-3 times. Visually inspect the sensor surface to ensure that no residual solution remains. Caution: Abrasive cleaning fluids/materials should NOT be used to clean the finger sensor.