Synerion

Fusion Front Panel Installation Guide

Version 1 - May 2023

Fusion Front Panel Installation Guide

GENERAL

The Fusion Data Collection Terminal is more than just a next generation time and attendance terminal - it's designed to open up a world of possibilities for wider integration with Human Resources Management Systems (HRMS) and a myriad of potential new applications beyond workforce management.

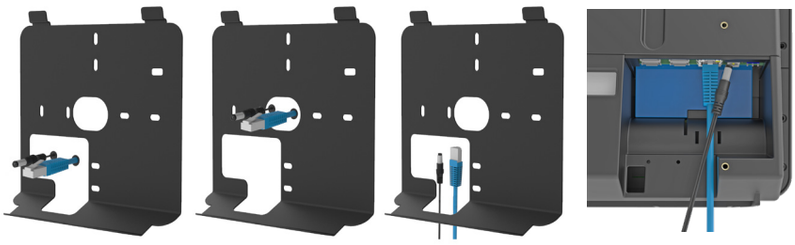
LOCATION

The terminal should be fixed to a flat surface at a height that is comfortable for users to view and interact with the screen without glare from reflections and in a suitable level of ambient light. The recommended installation heights for the terminals are for the top of the terminal to be positioned so that the centre of the camera is at a height of 148cm above the floor.

Note: before fitting, please check local regulations such as disabled access when determining the height of the unit.

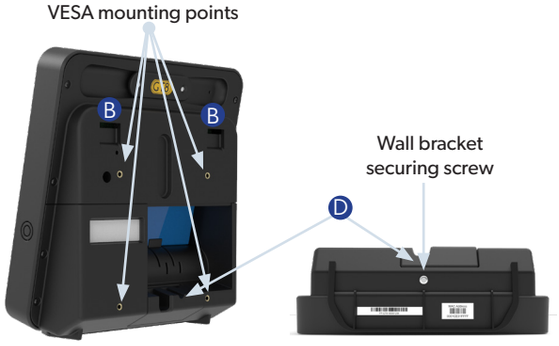
CABLE ROUTING

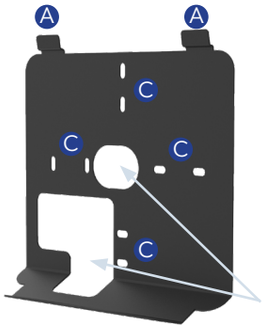
The Fusion provides a number of cable routing options. For ease of cable routing, we highly recommend using the lower (larger) aperture, where possible.



FITTING THE FUSION TO THE WALL BRACKET

1. Remove wall bracket securing screw to release wall bracket from Fusion .
2. With the wall bracket against the wall, mark the four screw mount fixing points (C) and the preferred cable routing position.
3. Drill holes in the wall and mount the wall bracket with screws taking care to feed the cables through the bracket aperture.
4. Offer the Fusion unit close to the wall bracket and connect Ethernet and/or power cables.
5. Position the Fusion unit slightly above the wall bracket with its back parallel with the wall and make sure all cables are free to move.
6. Centralize the Fusion unit against the wall bracket and slowly lower the terminal by sliding it down the wall until metal tangs 'A' engage into slots 'B'.
7. With the terminal fully down until it stops against the wall bracket re-fit the M4 screw in the base making sure to press the lower portion of the terminal into the wall to make sure it sits snug against the wall.





Optical Tamper Reflective Strip
Do **not** remove

For optimum fixing we recommend using the outerwall plate mounting holes 'C'

Cable Apertures
For ease of cable routing, we highly recommend using the lower (larger) aperture where possible. When running cables from underneath, please remove the backing plate 'D' from the Fusion .

FACE RECOGNITION INSTALLATION CONSIDERATIONS

Note: face recognition is only available if your application supports it.

The face recognition application recognizes enrolled employees using facial recognition algorithms that allow the detection and recognition of individuals using facial characteristics: such as measurements of eyes, nose, mouth and ears.

Our facial recognition helps prevents payroll fraud or 'buddy punching'. When recognition or detection has taken place, actions can then be performed based on your specific needs. Face recognition can also be used as part of a Workforce Management sequence, blocking the user from clocking in and recording results against employee records.

- Installation heights. The recommended installation heights are for the top of the terminal to be positioned so that the camera is positioned 148cm above the floor. This allows the terminal to detect subjects who are standing approximately 30cm from the terminal who are between 165cm (approx. 5' 5") and 175cm (approx. 5' 9") in height.

  However, consideration needs to be given for taller/shorter individuals and those who are in a wheelchair.

- Anti-spoof. This feature is intended to deter users from attempting to fool the system by recording an image of any suspected spoof attempts using photos or a phone. The anti-spoof function uses AI technology to identify foreign objects within the image. Whilst the technology will not catch all attempts, it can eliminate the majority. By taking action against those caught attempting to undertake fraud and time theft the practise is then eliminated. These attempts can be recorded locally and reviewed by a supervisor retrospectively or transmitted to your HCM system, if supported.

- Location of terminal to Minimise Ambient Light Variations. The terminal should be located in a position which is not subject to significant variations in lighting conditions which could affect the performance and accuracy. Particularly avoid places where there is strong direct light behind the subject.

- User identification range. When detecting a face, the terminal ensures the image is of the correct quality for facial recognition by measuring the pixel count between the eyes. This effectively dictates the range of the detection, but ensures the correct balance between accuracy and the omission of walk-by detections. This setting has been carefully calibrated for best performance and is currently not configurable.

- Employee consent. To maintain compliance with data protection legislation, when capturing Personally Identifiable Information (PII) the terminal includes a consent statement that requires each employee to agree to the capture and storage of biometric data within the terminal for a defined retention period.

  If an individual employee is not willing to provide consent, then it is possible for employees to be identified using either a Keypad ID or badge, without the benefits of biometric evidence (depending upon the terminal configuration). The method used for clocking is determined as part of the enrolment process on the terminal.

- Preventative maintenance procedures. It is important to ensure that the camera window is regularly inspected and cleaned to prevent a build-up of dirt, dust or fingerprints around the camera lens which may obscure the camera resulting in poor quality image capture.

  The terminal may be cleaned as often as necessary with any proprietary computer screen cleaning material.

- Pre-impregnated micro-fibre cloths or tissues are preferable.

- If spray products are used, take care to avoid run-off and do not allow any liquid to enter the terminal case.

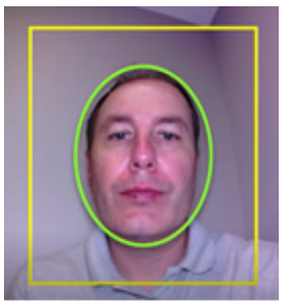
- For a smear-free finish, polish with a dry, clean, lint-free cloth.

- DO NOT use any other cleaning products, such as acids, solvents, polishes or abrasives.

ENROLLMENT

When the Fusion has been installed, employees then need to have their image taken and enrolled. During enrollment the employee must ensure that the image taken:

- Contains no other people or objects
- Sufficient front lighting on the subject's face
- They are facing towards and looking directly into the camera at the top of the terminal:
  - With their face and neck fully visible and not obscured by PPE, mask, scarf, hat, and so on
  - With their eyes open and visible
  - With their head positioned within the provided guide
- Avoid having hair covering parts of their face and/or eyes
- Not have any bright light or shadows on your face or around the vicinity of your face which may obscure the employee's facial features
- Sufficient front lighting on the subject's face: background color is dissimilar to subject's hair color
- For employees wearing glasses position their head accordingly to minimize glare and reflections in lenses
- Center face within frame of ellipse as displayed below:



SUPPORTING INFORMATION AND FAQS

Q. Should an employee who wears glasses enrol with or without them on?
A. If the employee wears glasses, for best results, we would recommend enrolling with glasses on. Employees should do their best to prevent glare on the glasses during the enrolment process

Q. If an employee grows facial hair, should they re-enrol?
A. We always recommend the enrolment photo matching closely as possible to the employee at any given time. The facial recognition looks for relative distance of specific points on the face, if the facial hair starts to change these points, we recommend the employee to re-enrol with the newly grown facial hair.

Q. What happens if an employee chooses not to enrol their face? For example, they decline the biometric consent form during enrolment.
A. Other options of identification and verification can be configured specifically against an employee record. Depending on the hardware available in the terminal, other identification/verification options are as follows:

- Keypad ID
- Card (hardware dependent)
- Finger (hardware dependent).