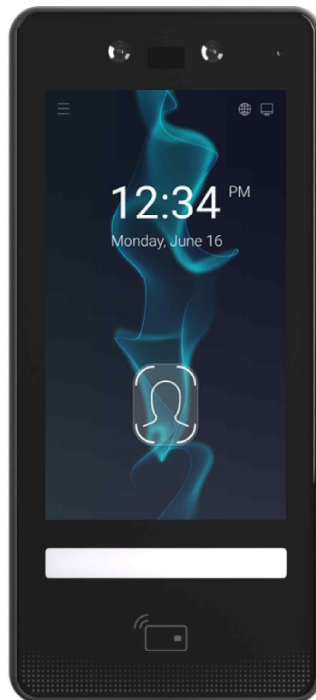


FACE CAMERA Series User Manual

NovaFace-3-BPI

Version 1.0.0, April 2026



APPLICATION

Compact, wall-mountable terminal for high throughput access control, time and attendance, and ID management applications

About This Manual

FACE CAMERA Series is an advanced face recognition terminal that provides highly accurate face recognition in an embedded system. This manual contains the descriptions and operational instructions for FACE CAMERA device. It is intended and written for system administrators who are in charge of overall operation including installation and management. We recommend you familiarize yourself with this manual in order to make use of the product correctly and effectively.



- The figures and screenshots in this guide are given for illustration purposes only and may differ from the actual product.
- Due to continuous technological improvements, the guide may not contain the most updated information. For further information not covered in this guide, please contact us at service@cmi-tech.com or sales@cmi-tech.com.

Revision History

Version	Date	Description	Note
1.0.0	2026-04-30	Initial release	

Conventions in This Manual

The following symbols are used throughout this manual. Make sure that you fully understand the meaning of each symbol and follow the instructions accompanied.

Symbol	Name	Description
	WARNING	Indicates information that should be followed with the utmost care. Failure to comply with a warning could cause severe damage to the equipment or injury to personnel.
	CAUTION	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
	IMPORTANT	Emphasizes essential information required for user success.
	NOTE	Provides important supplemental information that might enhance users' understanding or alternative steps to accomplish their goals.
	TIP	Provides optional information to help users be more successful in their tasks.

Safety Instructions

Follow the safety instructions to use the product safely and prevent any risk of personal injury or damage to the product.



WARNING

Choosing Location

- DO NOT expose the product to direct sunlight, excess heat, open flames, corrosive gasses, moisture, or dust. Doing so may cause electrical shock, electrical short, or fire.
- DO NOT install the product near heaters, air conditioners, electrical fans, refrigerators, or water. Doing so may create the risk of a short circuit or fire caused by water or condensation that may come into contact with the product.
- DO NOT install the product in an environment that is susceptible to explosion.

Operation

- DO NOT let any type of liquid, mists, or sprays get into the product. Doing so may cause electrical shock, electrical short, or product damage.
- If smoke, odors or noise rise from the device, stop using the device immediately, disconnect the power cable, and contact our customer support.

Maintenance

- DO NOT attempt to disassemble, repair, or modify the device yourself. Opening or removing covers may expose you to electrical shock or other risks and may void your warranty. If the product does not work correctly, contact your dealer or our customer support.



CAUTION

Choosing Location

- Keep the front side of the device away from strong ambient light, direct sunlight, or both. Sunlight, halogen lamps or other strong illumination may degrade the performance of the device, that is, increase in failure-to-capture rates or occasional authentication problem.
- DO NOT install the product outdoors unless environmental factors such as water, temperature, or sunlight in the location are controlled by means of proper protection.
- DO NOT expose the product to high electro-magnetic radiation. Device failure or performance degradation may occur caused by electro-magnetic interference.
- DO NOT install the product next to devices that contain magnets or generate magnetic fields such as speakers. Device malfunction or performance degradation may occur caused by magnetic interference.

Installation

- DO NOT install the product on a surface subject to vibration or physical shock. Doing so can cause damage to the product.
- When you install the product on a wall, make sure that you secure the product with the provided fasteners. Dropping from the wall may cause damage to device casing, internal parts, or both.
- DO NOT install the power supply cable in a high-traffic area where people pass by. Doing so may create a trip hazard and cause the cable to become worn or frayed.
- Use only a power cord set complying with the national regulation of the countries intended for sale.
- Use only the power adapter which is either provided or approved by CMITECH for the product to operate properly and safely.
- DO NOT connect multiple devices to one power adapter. Overload on power adapter may cause over-heat or fire hazard.
- DO NOT use any type of extension cord to connect the product to a power supply.

Operation

- DO NOT use any sharp tools when pressing the buttons to prevent damage to the touch screen from scratches or cuts.

Maintenance

- When cleaning the product, wipe the product with a soft and dry cloth. Do not apply water, benzene, alcohol, or spray cleaner. These may cause product failure or fire.

Contents

About This Manual	ii
Revision History.....	ii
Conventions in This Manual	iii
Safety Instructions.....	iv
1. Introduction to FACE CAMERA	1
1.1. Features.....	2
1.2. Components.....	4
1.3. Parts and Controls.....	5
1.3.1. Touch Screen	7
2. Installing FACE CAMERA.....	8
2.1. Installation Requirements.....	8
2.1.1. Environmental Requirements	8
2.1.2. Electrical Requirements	9
2.1.3. PoE Requirements (optional).....	10
2.1.4. Tool Requirements.....	11
2.2. Installation Procedure	12
2.2.1. Mounting Device - Wall Mount.....	12
2.2.2. Mounting Device - Gang Box Mount.....	15
2.2.3. Connecting Cables	16
3. Using FACE CAMERA.....	23
3.1. Enrollment.....	23
3.2. Authentication.....	24
4. Product Specifications.....	26
4.1. Mechanical Specifications.....	26
4.1.1. Dimensions (unit: mm).....	26
4.2. Technical Specifications.....	27
4.3. Cables and Connectors.....	29
4.4. Environmental Specifications	30
Appendix A: OSD Menu List.....	31
A.1. Device.....	31
A.2. Communication.....	35
A.3. Display.....	36
A.4. Authentication.....	36
A.5. Log.....	39
Appendix B: Legal Information	40
B.1. Disclaimer	40

B.2. Copyright Notice.....	41
Appendix C: Regulatory Information.....	42
C.1. FCC compliance statement.....	42
C.2. EU Declaration of Conformity (CE).....	43
Appendix D: Contact Information.....	44

1. Introduction to FACE CAMERA

FACE CAMERA Series is CMITech's latest, next generation face recognition terminal that provides highly accurate face recognition in a compact and cost-effective embedded system. Employing the latest high-performance ARM processor, the FACE CAMERA Series performs subject and face detection, face imaging, template generation and matching at industry leading speeds, with typical authentication decisions of 0.5 seconds. The user experience resembles a natural "walk through" flow, as subject detection begins at up to 2.0 meters, with a typical face image capture range of 0.4 to 1.4 meters.

Image and algorithm processing utilize an embedded Neural Processing Units (NPU) for ultra-fast image capture and algorithm processing. This architecture allows for the utilization of the latest and most powerful, but complex, face algorithms available.

A key addition to the FACE CAMERA Series system is Adaptive Field of View Control in which the field of view is extra-wide in face finding mode. A proprietary Digital Pan & Tilt function shifts the region of interest (ROI) to display only the detected subject, thereby minimizing detection of unintended subjects.

The IP65 (ingress protection) and IK06 (impact protection) ratings provide added durability against incidental dust and moisture in controlled semi-outdoor environments while being designed primarily for indoor installations. Dual visible and near-infrared illuminators provide consistent imaging in low-light environments.

The system is also highly compact, with dimensions of 82 x 182 x 28 mm while weighing 380 g (without wall plate); it can readily be mounted on any wall, desktop, kiosk front-plate, or turnstile.

The user interface is effortless and intuitive. Positioning instructions are clearly shown on the display to guide subject movements, while authentication and authorization decisions are presented immediately in clear notations around the subject's face. The system also provides color-based cues for face finding, fake face detection, and mask detection, in addition to positive identification (or authentication), and identification rejection.