How to use the DeltaControl display and application

1) Home.....2) Prepare.....3) Print.....4) Tune..... 5) Settings.....6) Updates

The DeltaControl display is executed using the smartphone placed in the charging station on the printer frame and the DeltaControl application loaded on the operating system of the phone.

If the device is switched off, the application must be started using the icon on the screen when the device is switched on again.

Caution: We strongly discouraged using the DeltaControl display as your personal phone. There is no guarantee that the application will run smoothly if the system is interrupted or other components are installed on the device.

Warning: If you turn off the printer (rocker switch on the power supply) and you know that you will not be using it for an extended period of time, you should also turn off the DeltaControl display. This will prevent any issues from happening with the phone battery.

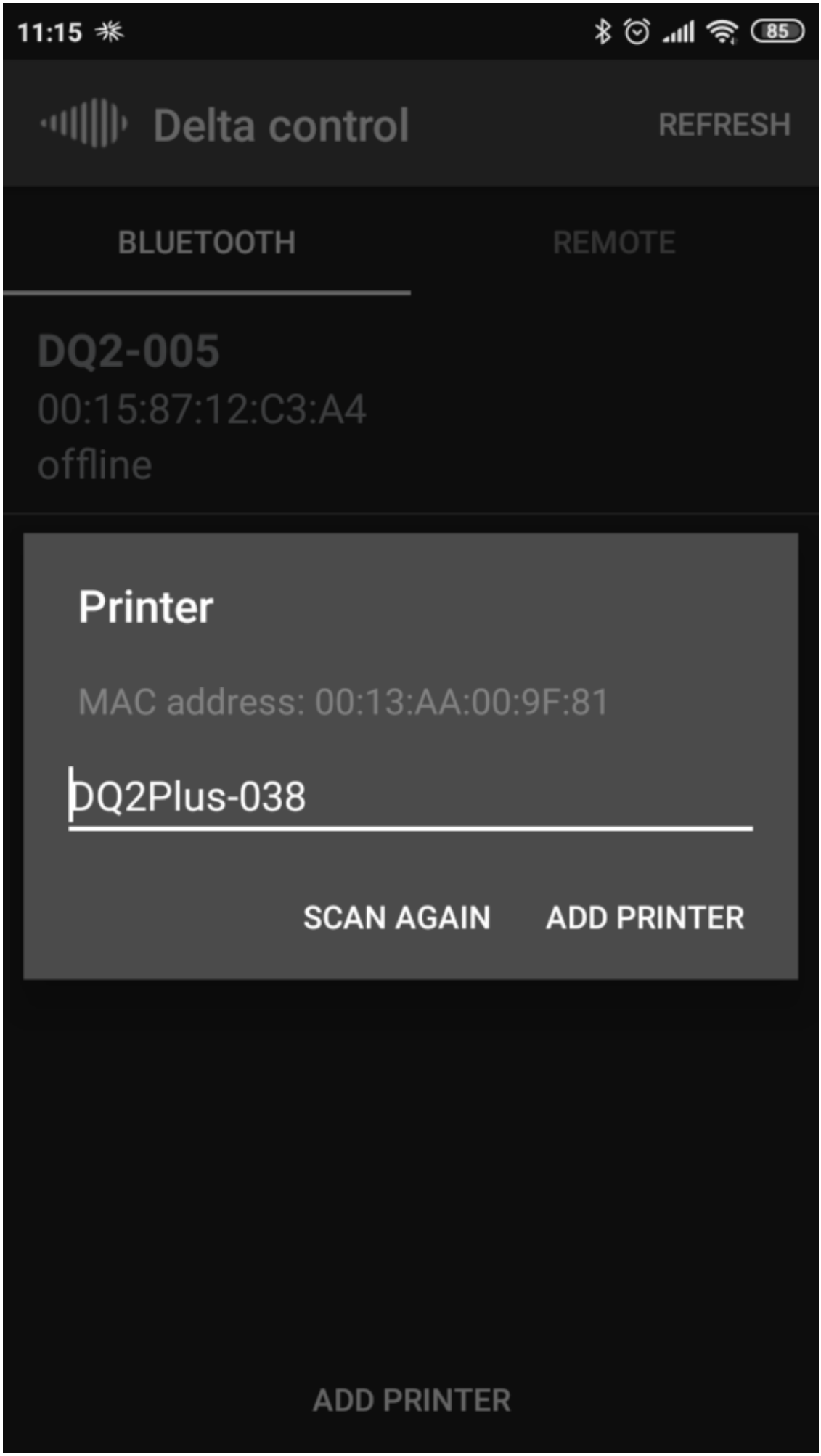
Delta Control interface

When DeltaControl starts, it displays a list of one or more printers with which it was paired. Click on the printer to select the machine you want to control.

You can also add additional printers from this home screen. After pressing the *ADD PRINTER* button, the camera will start to scan the QR code. It is located on the lower right side of the printer next to the power connector.



After scanning the QR code, you can rename your printer and add it to your list with the *ADD PRINTER* button.


11:15
85
Delta control
REFRESH
BLUETOOTH
REMOTE
DQ2-005
00:15:87:12:C3:A4
offline
Printer
MAC address: 00:13:AA:00:9F:81
DQ2Plus-038
SCAN AGAIN
ADD PRINTER
ADD PRINTER

The Home screen

When you select the printer, it connects to the machine. The application interface is divided into sections represented by “tabs” at the bottom of the application. The Home screen provides a basic overview of the machine’s status.



There is a section at the top containing all of the tabs. On the left you will find the icon for turning on / off the lights, in the middle the name of your printer and You will find the *EMERGENCY STOP* switch on the upper right corner of the application, which can be used to stop the printer at any time while it is active. The printer restarts and is ready for the next task after a short while. Pushing this switch interrupts the current print and does not allow the user to resume progress. Pushing this switch requires confirmation in the following dialog. This is a precaution against stopping your print accidentally.

Tip: If you need to stop any ongoing printer action as quickly as possible, use this EMERGENCY STOP switch.

Below the tab section, the *File information* shows the specified print job path. The following time indicators determine how much time has elapsed (*Time elapsed*) and how much is left (*Time left*).

Most of the home tab uses the print progress view. The red circular indicator and the numeric value indicate the percentage progress of the print job. The following three buttons are to Pause, Stop, and Play (*continue*) your print. The last item in this section is the status indicator.

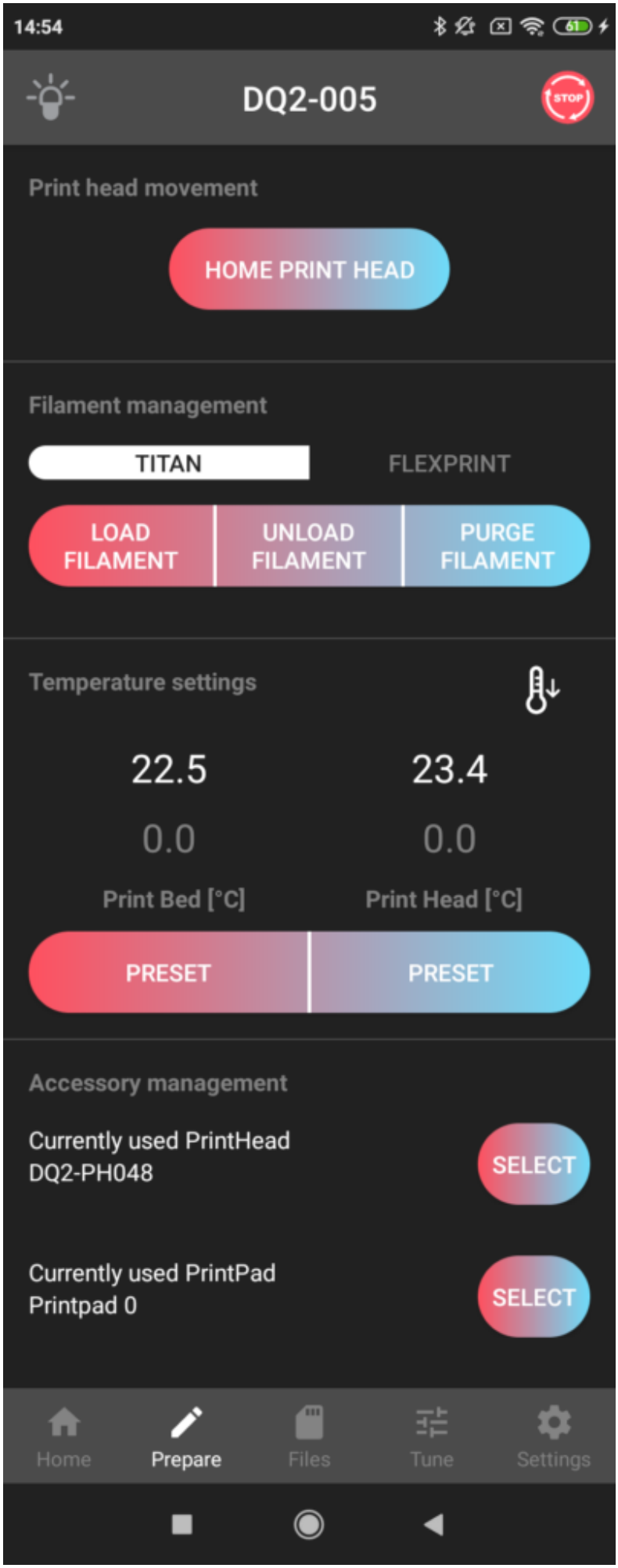
The last items are the temperature indicators on the Print Bed and Print Head, with the upper number being the current temperature value and the lower being the desired value.

By clicking on the temperature of the pad (left) or the temperature of the print head (right) you will be immediately transferred to the temperature setting in other parts of the application.

Tabs at the bottom of the application are used to move between individual sections (screens).

The Prepare tab

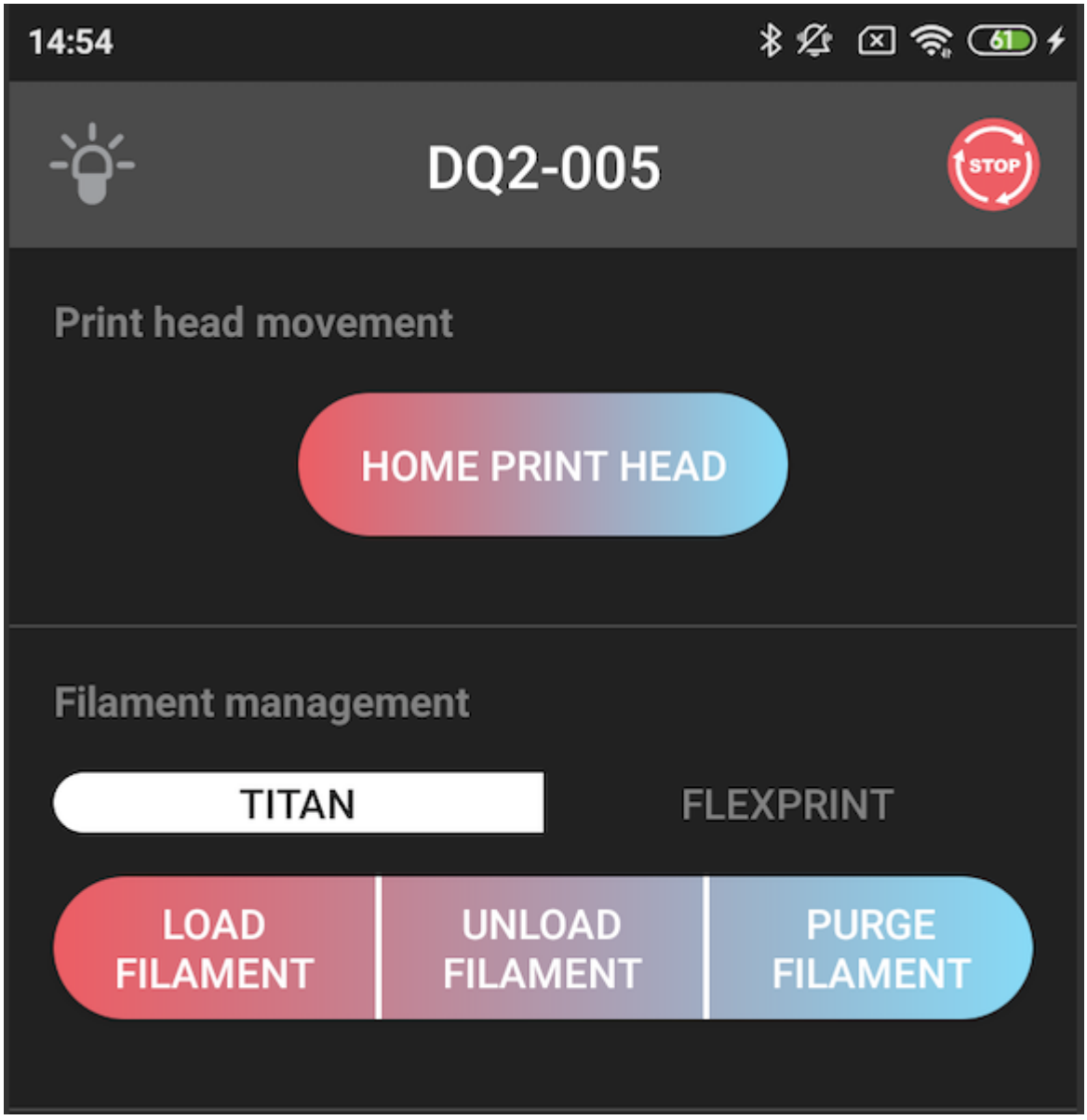
The prepare tab screen is used to enter several common commands related to printer preparation.


14:54
DQ2-005
STOP
Print head movement
HOME PRINT HEAD
Filament management
TITAN
FLEXPRINT
LOAD FILAMENT
UNLOAD FILAMENT
PURGE FILAMENT
Temperature settings
22.5
23.4
0.0
0.0
Print Bed [°C]
Print Head [°C]
PRESET
PRESET
Accessory management
Currently used PrintHead
DQ2-PH048
SELECT
Currently used PrintPad
Printpad 0
SELECT
Home
Prepare
Files
Tune
Settings

The *HOME PRINT HEAD* button is used to position the print head in its home position (for example, after printing has stopped).

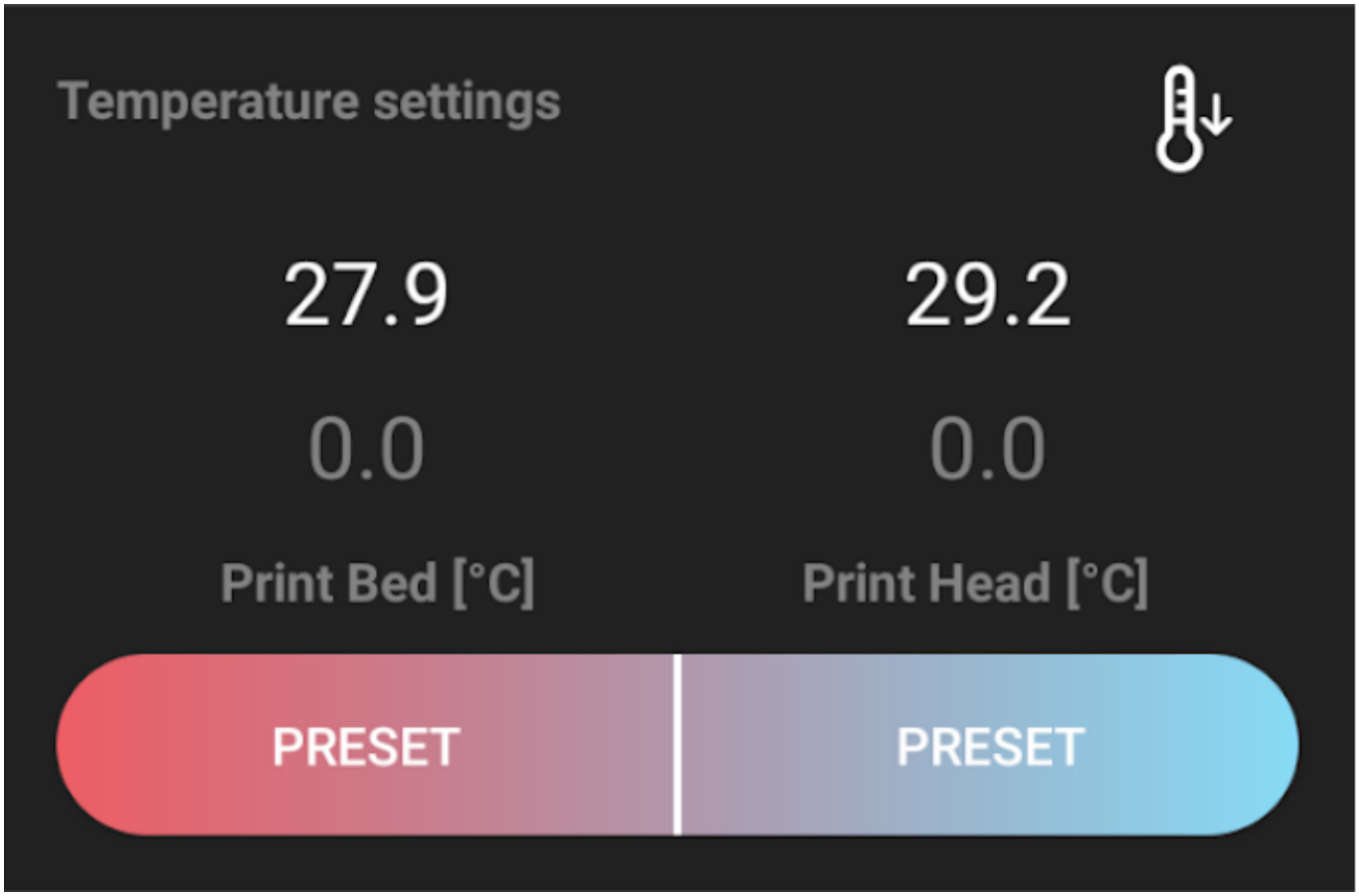
In the Filament management section, there are buttons controlling the introduction of filament into the print head via the Titan extruder (primarily) or after switching via the FlexPrint extruder. *LOAD FILAMENT* ensures that the nozzle is heated to 210 °C and then the filament is drawn into the print head. *UNLOAD FILAMENT* is exactly the opposite action, warming up the nozzle and then pulling out the filament. If the nozzle needs to be cleaned when introducing a different type of material or a significantly different color, we recommend flushing the nozzle with the newly introduced filament using the *PURGE FILAMENT* button.

Caution: For loading material with melting temperature higher than 210°C, set the temperature manually (see 2 paragraphs below) and then press the command.



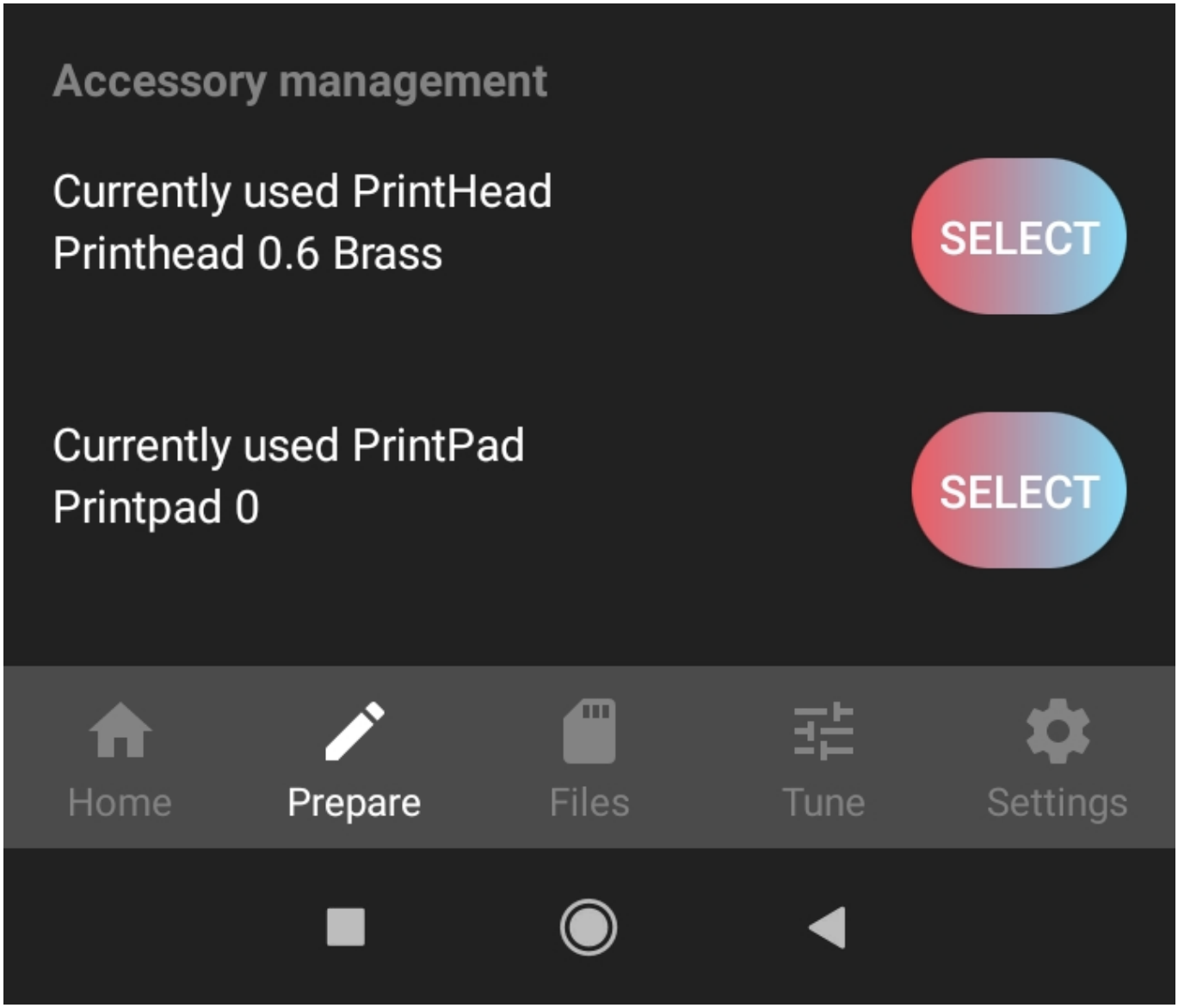
In the next section of the screen, Temperature settings, you can manually set (by clicking on the lower value) the temperatures for the Print Bed and Print Head. The working temperature setting is

usually part of the G-code generated by the software (slicer). The thermometer button with the down arrow is used to cool the pad and the nozzle.

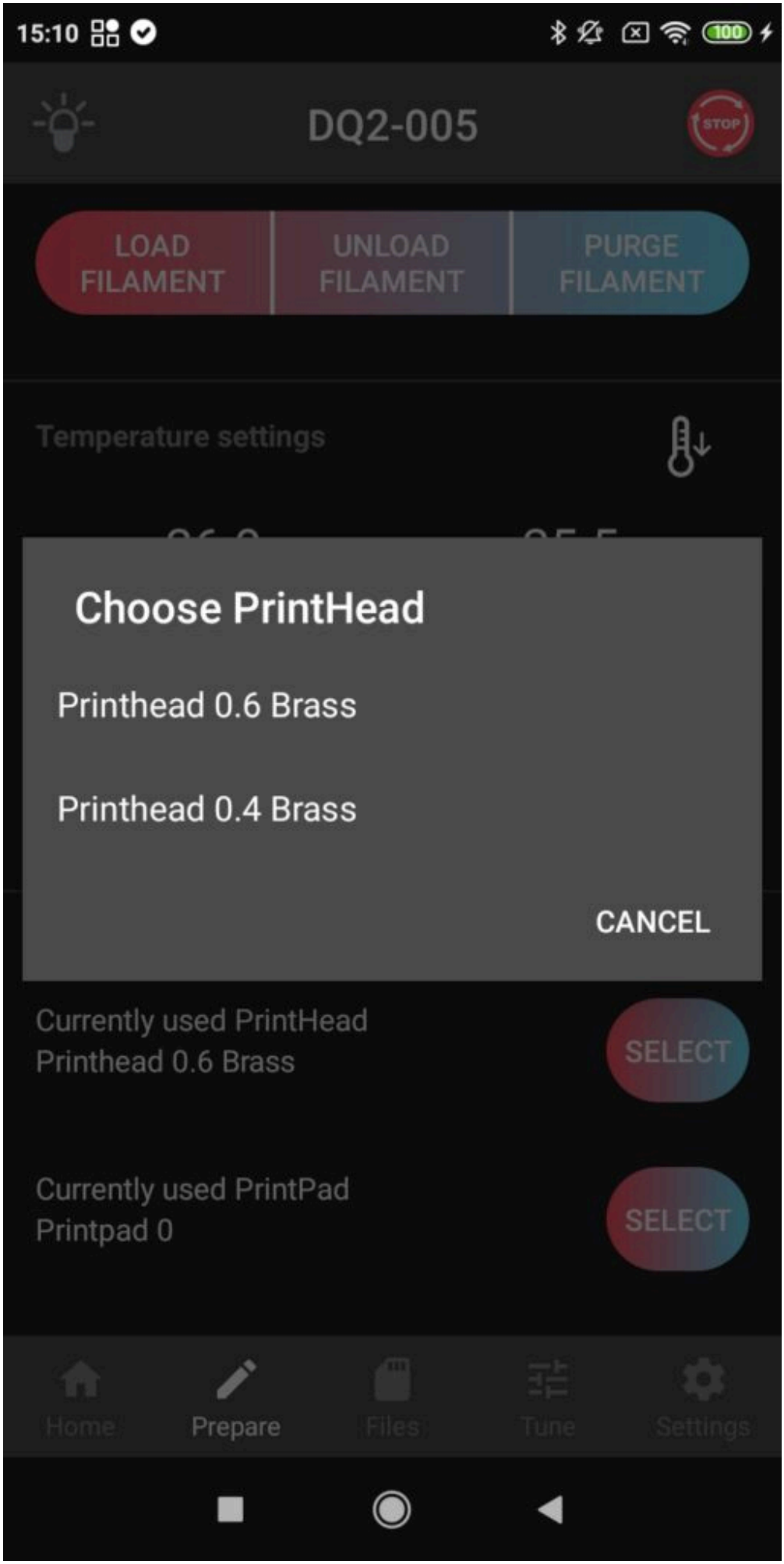


By clicking one of the *PRESET* buttons, you can select from the preset standard temperature values (the scale varies for the pad temperature and the print head temperature).

The Accessory management section is used for easier management and setting up multiple printheads and printheads. For each new printhead and pad, you will receive a configuration file, which you upload to the printer’s memory via the web interface (for more detailed instructions, see the section describing WebControl)



If you want to use the accessory, replace it according to the instructions and simply select the accessory from the list using the *SELECT* button. Each time, after such a change, the set values of the given accessory will be read (e.g. offset) and the calibration will be performed automatically before the next printing.


15:10
DQ2-005
STOP
LOAD FILAMENT
UNLOAD FILAMENT
PURGE FILAMENT
Temperature settings
Choose PrintHead
Printhead 0.6 Brass
Printhead 0.4 Brass
CANCEL
Currently used PrintHead
Printhead 0.6 Brass
SELECT
Currently used PrintPad
Printpad 0
SELECT
Home
Prepare
Files
Tune
Settings

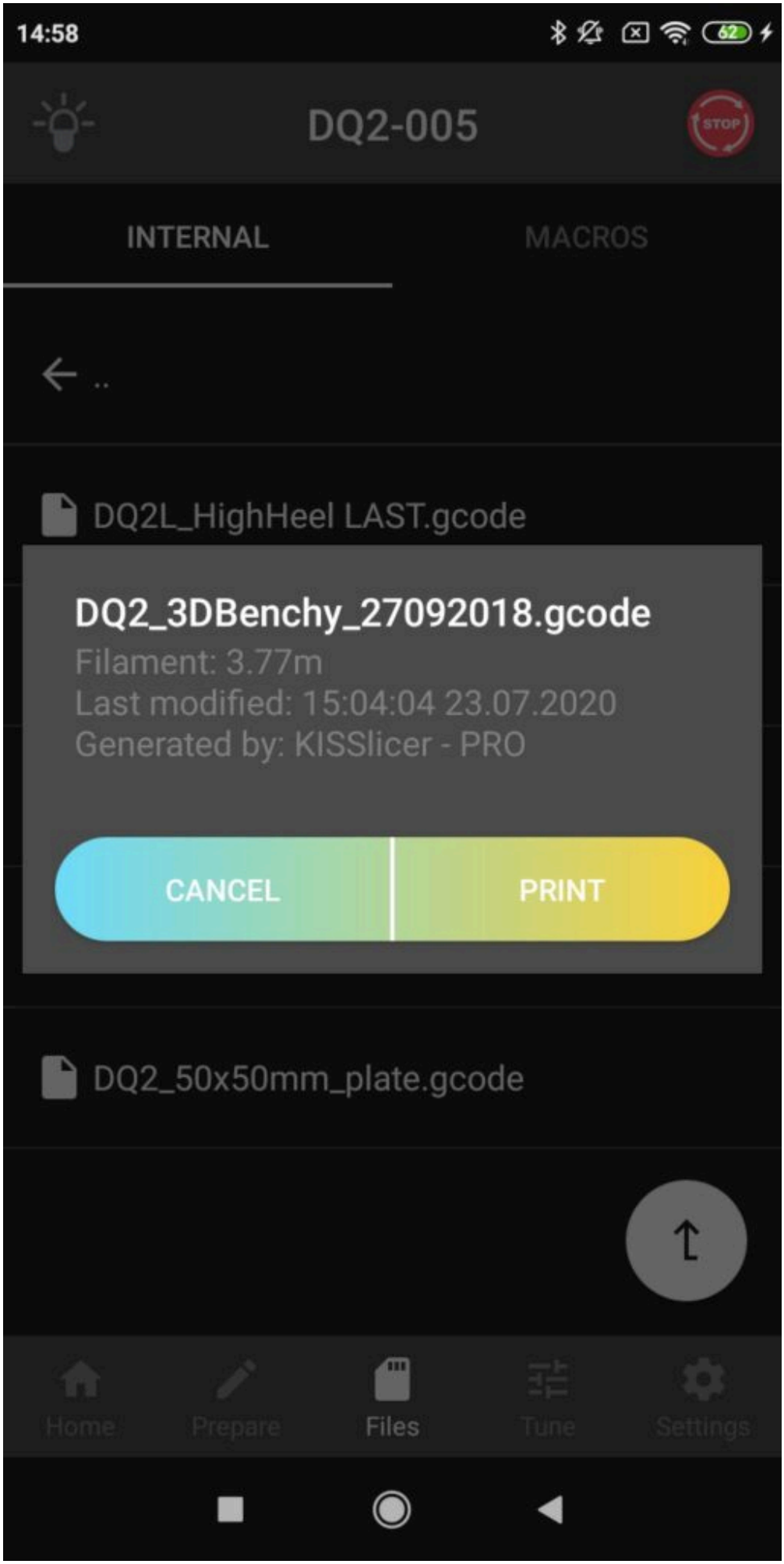
If you have more than one print head, you can alternate between them, for example, according to different sizes or types of nozzles. This simplifies the preparation process and eliminates the risk of damage during nozzle replacement.

Print screen

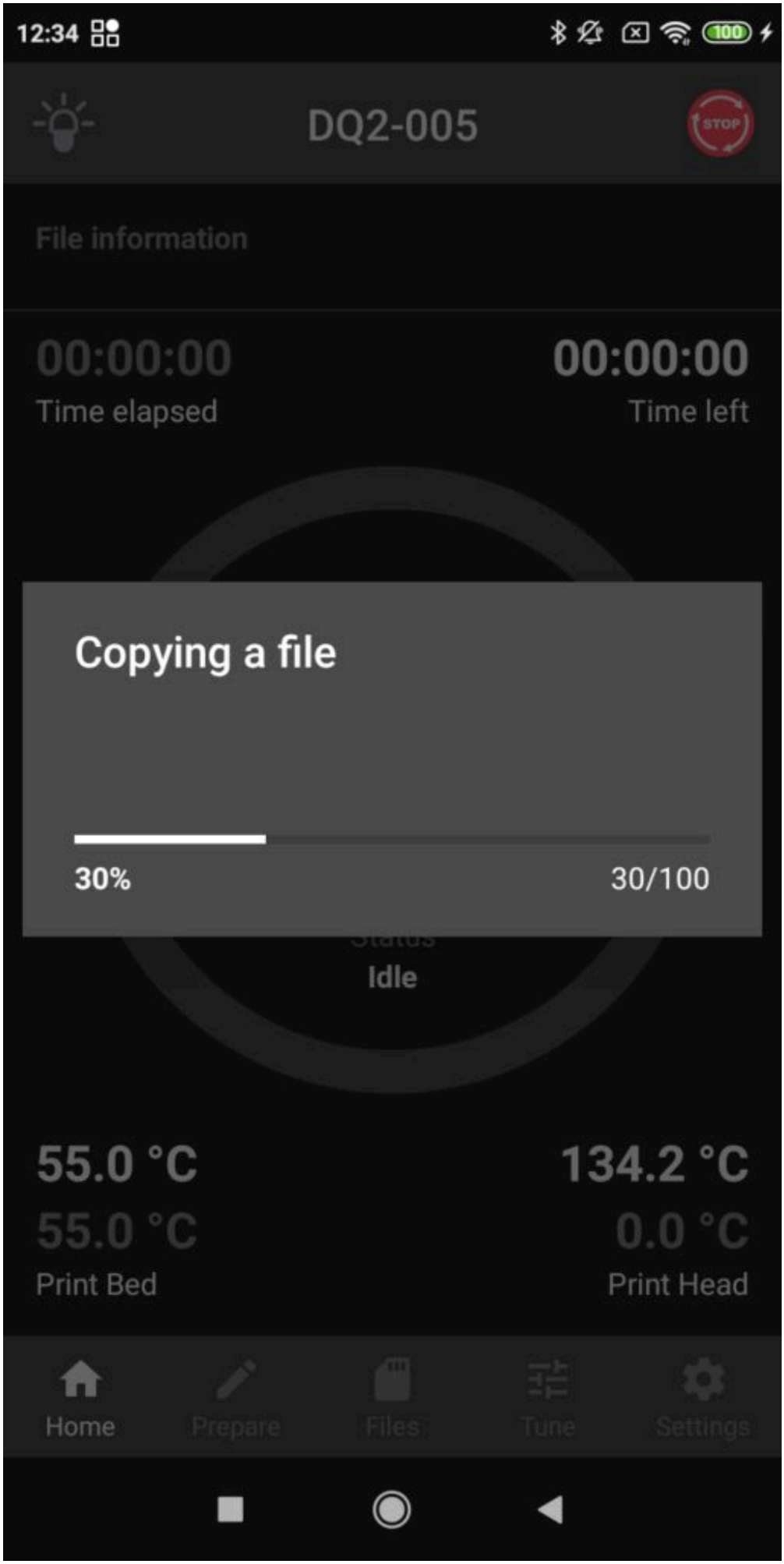
This screen displays the prepared print data in the printer’s internal memory (which can be downloaded via the online interface), or on a connected USB device (you can switch to a USB device in the screen header).



To print any file simply click on the file and confirm by *Print* button.


14:58
DQ2-005
STOP
INTERNAL
MACROS
..
DQ2L_HighHeel LAST.gcode
DQ2_3DBenchy_27092018.gcode
Filament: 3.77m
Last modified: 15:04:04 23.07.2020
Generated by: KISSlicer - PRO
CANCEL
PRINT
DQ2_50x50mm_plate.gcode
Home
Prepare
Files
Tune
Settings

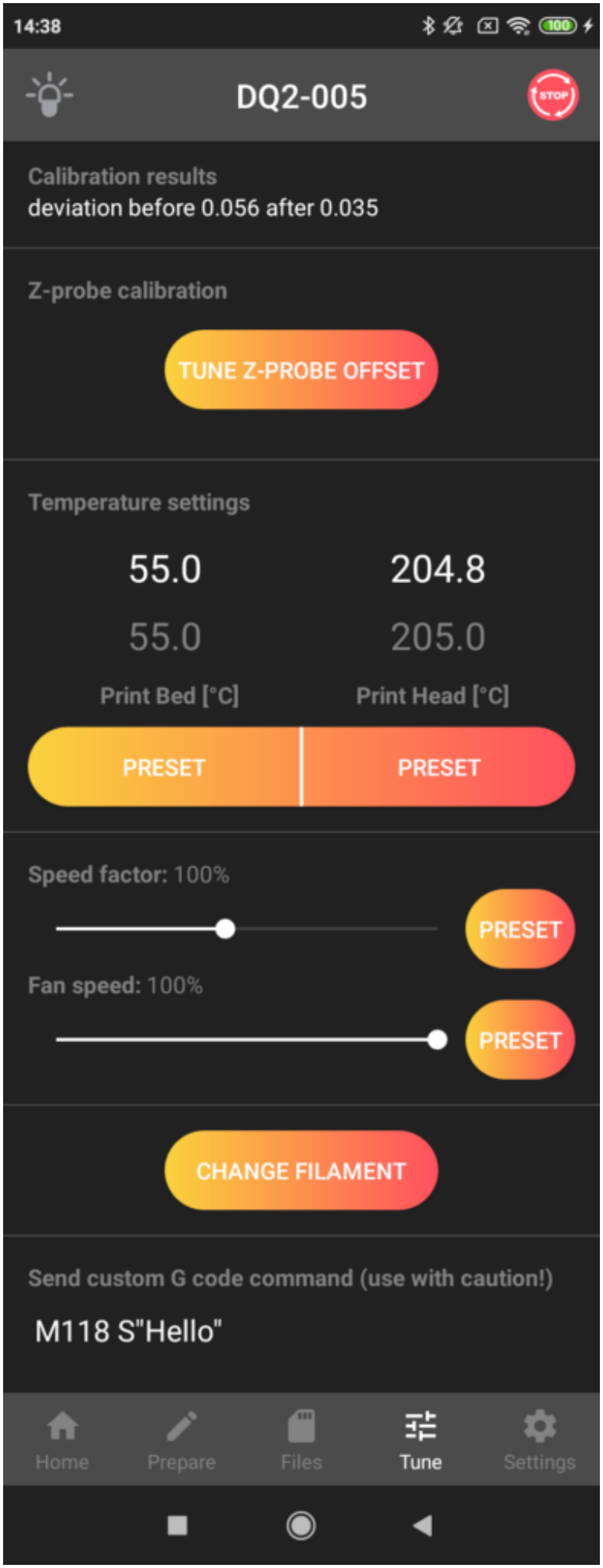
If the file is on USB driver, after pressing *Pritn* button, the file starts to copy into printer internal memory. Then the print begins.


12:34
DQ2-005
STOP
File information
00:00:00
Time elapsed
00:00:00
Time left
Copying a file
30%
30/100
Idle
55.0 °C
55.0 °C
Print Bed
134.2 °C
0.0 °C
Print Head
Home
Prepare
Files
Tune
Settings

You can disconnect the USB driver during printing without any print interruption. After print finishes the file is deleted from internal memory.

Tune screen

Use this section to manually fine-tune the printer and set values during printing. The height of the first layer is the most important setting and is adjusted by the *TUNE Z-PROBE OFFSET* menu.


14:38
DQ2-005
STOP
Calibration results
deviation before 0.056 after 0.035
Z-probe calibration
TUNE Z-PROBE OFFSET
Temperature settings
55.0
204.8
55.0
205.0
Print Bed [°C]
Print Head [°C]
PRESET
PRESET
Speed factor: 100%
PRESET
Fan speed: 100%
PRESET
CHANGE FILAMENT
Send custom G code command (use with caution!)
M118 S"Hello"
Home
Prepare
Files
Tune
Settings

When clicked, a scale appears for moving the print head relative to the print pad. Positive values cause the printhead to lift above the pad, while negative values bring the printhead closer to the pad. We recommend utilizing maximum caution when approaching the print pad. As a user, you have absolute control over the offset setting. Select *UPDATE & STORE* to adjust and maintain the offset value for all upcoming prints. If you want to adjust the offset only for the current print, select *UPDATE*.

Caution: You have absolute control over the printer when decreasing the offset value, so be very careful. We recommend using values -0.05 and -0.01 mm.

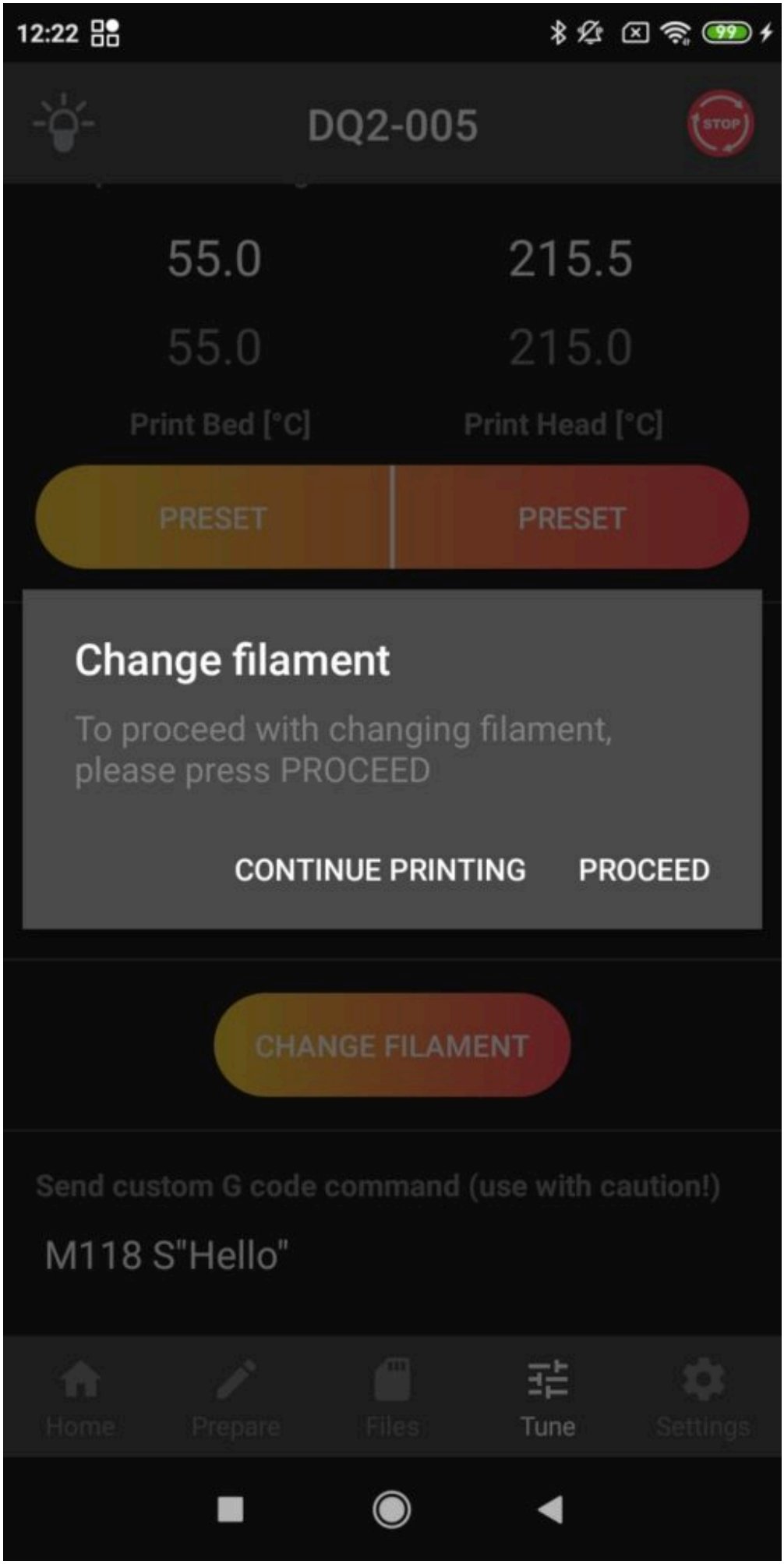
Warning: Always monitor the printer when adjusting the offset. Never perform this operation remotely (from another room) or rely on another person’s word or observations.



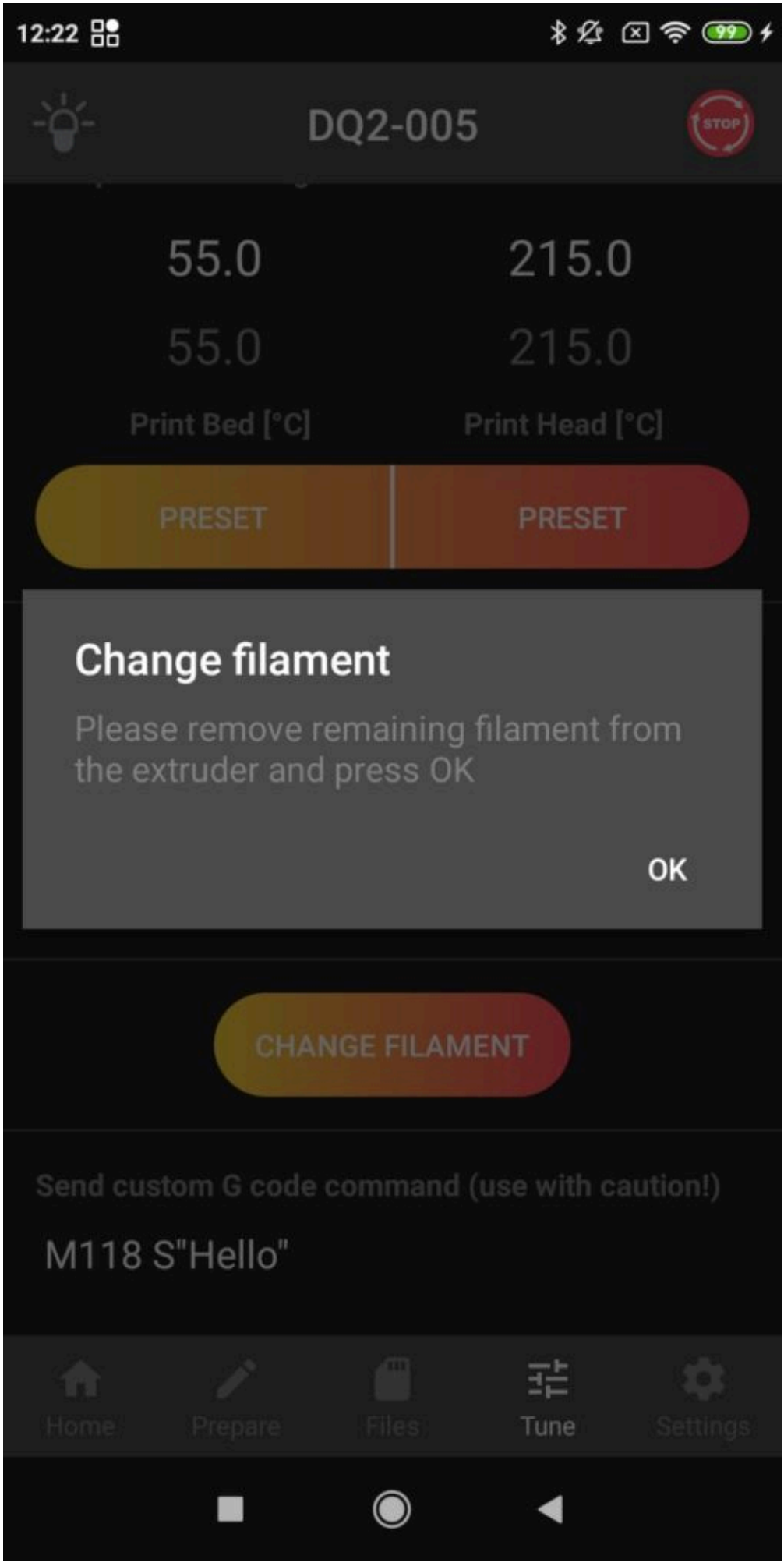
To adjust the temperature during printing, use the Temperature settings section according to the same system as in the Prepare tab. The Speed factor and Fan speed settings are not usually set manually.

If you need to replace the filament during printing, press the *CHANGE FILAMENT* button and follow the instructions.

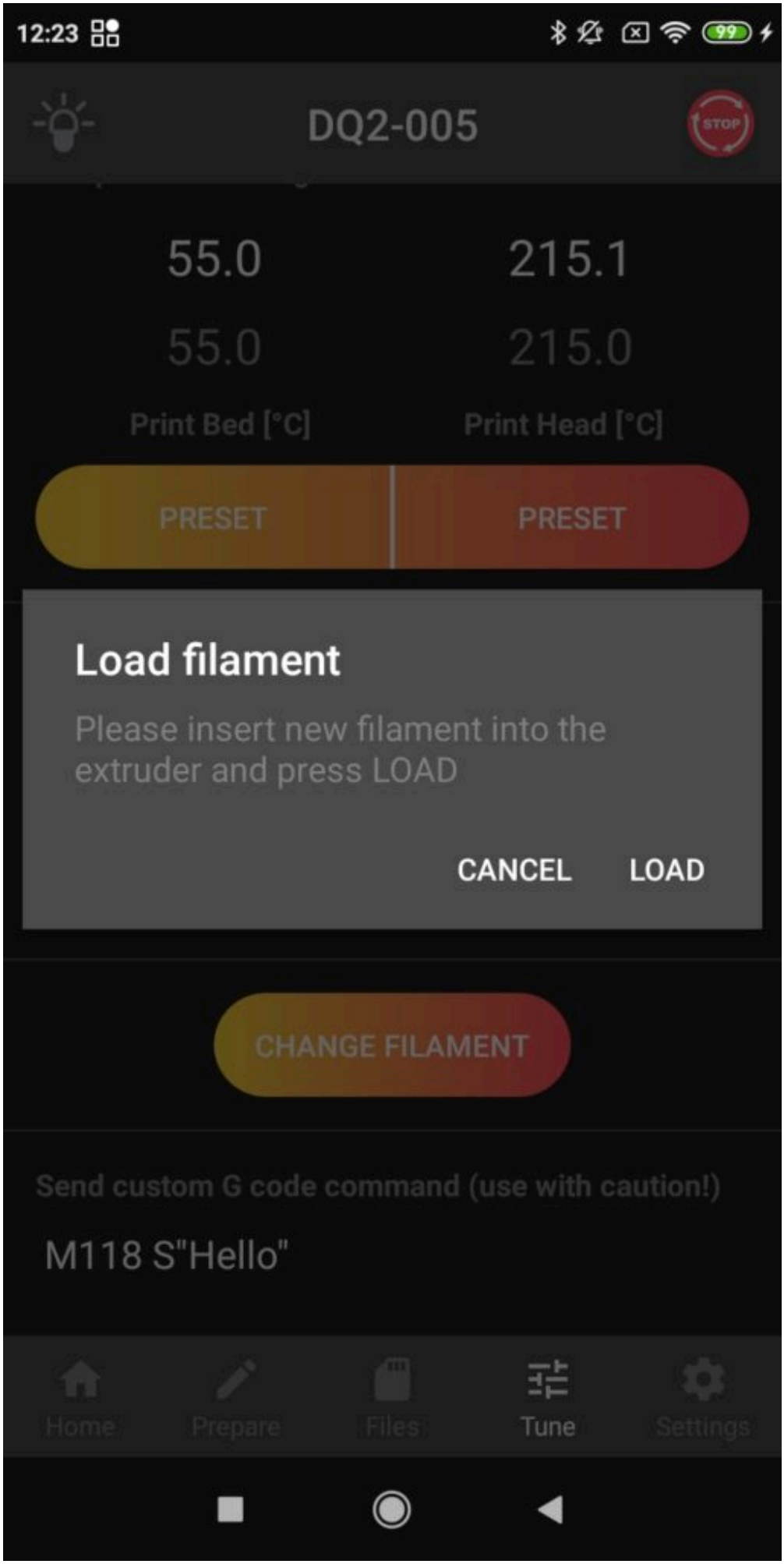
The PrintHead moves above the object and to the rear vertical profile. Then the dialogue tab appears and press the *PROCEED* button to continue.


12:22
99
DQ2-005
STOP
55.0
215.5
55.0
215.0
Print Bed [°C]
Print Head [°C]
PRESET
PRESET
Change filament
To proceed with changing filament, please press PROCEED
CONTINUE PRINTING
PROCEED
CHANGE FILAMENT
Send custom G code command (use with caution!)
M118 S"Hello"
Home
Prepare
Files
Tune
Settings

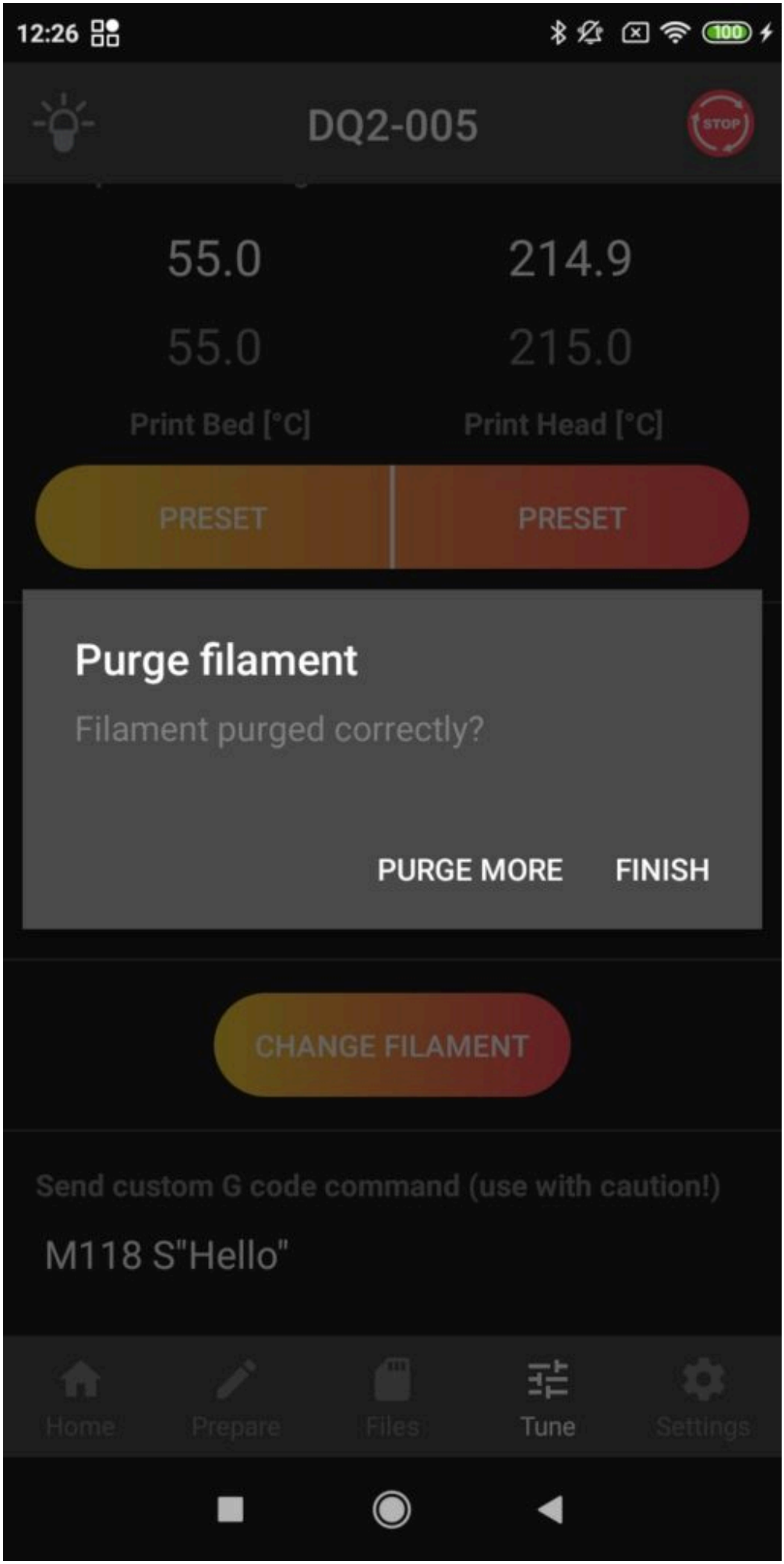
Manually unload the filament and press *OK*.


12:22
99
DQ2-005
STOP
55.0
215.0
55.0
215.0
Print Bed [°C]
Print Head [°C]
PRESET
PRESET
Change filament
Please remove remaining filament from the extruder and press OK
OK
CHANGE FILAMENT
Send custom G code command (use with caution!)
M118 S"Hello"
Home
Prepare
Files
Tune
Settings

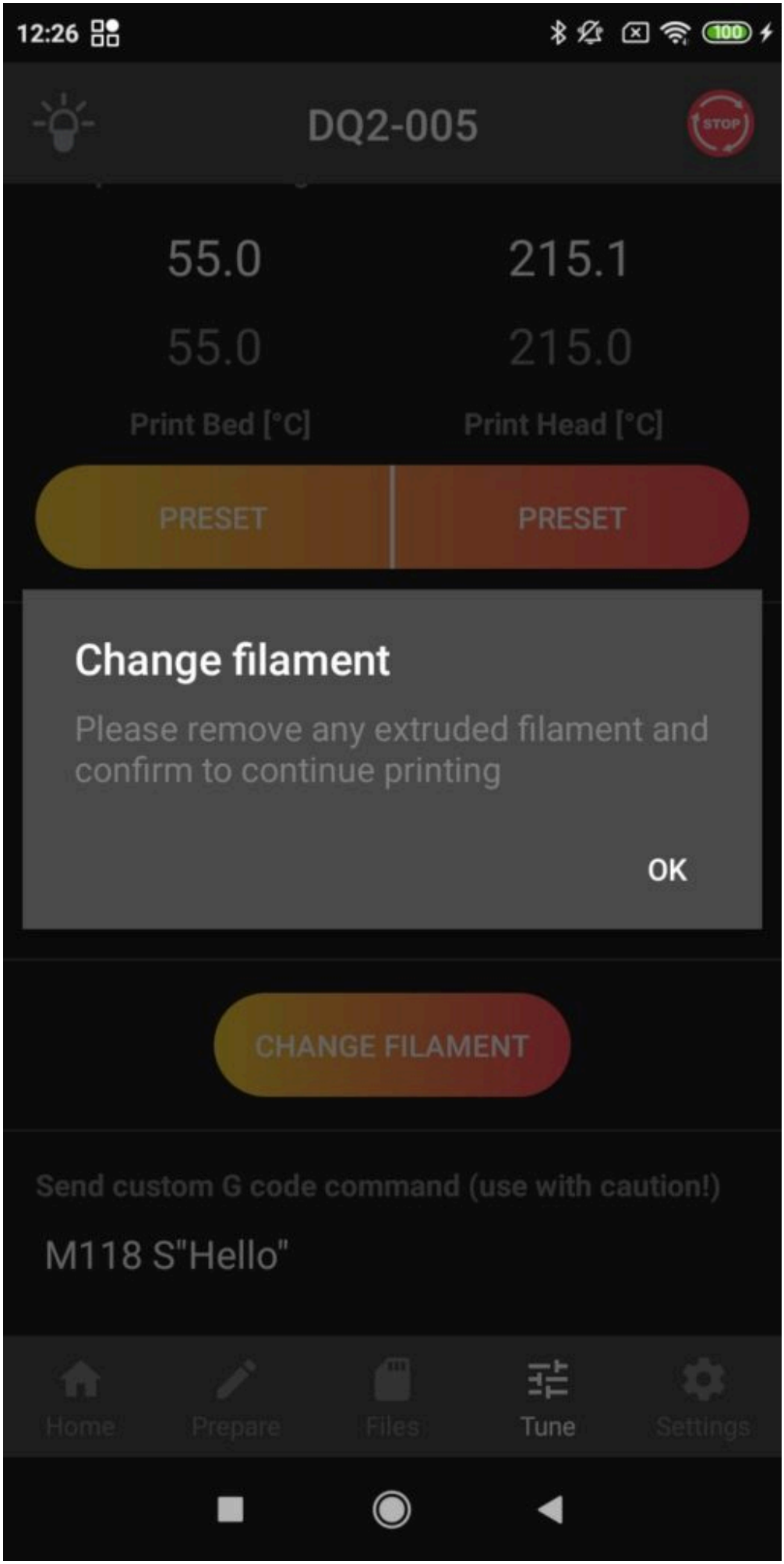
Insert the filament approx 1 cm into the bowden and press *LOAD*.


12:23
99
DQ2-005
STOP
55.0
215.1
55.0
215.0
Print Bed [°C]
Print Head [°C]
PRESET
PRESET
Load filament
Please insert new filament into the extruder and press LOAD
CANCEL
LOAD
CHANGE FILAMENT
Send custom G code command (use with caution!)
M118 S"Hello"
Home
Prepare
Files
Tune
Settings

Filament is loaded into the nozzle. If there is still the old filament coming out of the nozzle, press *PURGE MORE*. Otherwise continue by clicking *FINISH*.


12:26
DQ2-005
STOP
55.0
214.9
55.0
215.0
Print Bed [°C]
Print Head [°C]
PRESET
PRESET
Purge filament
Filament purged correctly?
PURGE MORE
FINISH
CHANGE FILAMENT
Send custom G code command (use with caution!)
M118 S"Hello"
Home
Prepare
Files
Tune
Settings

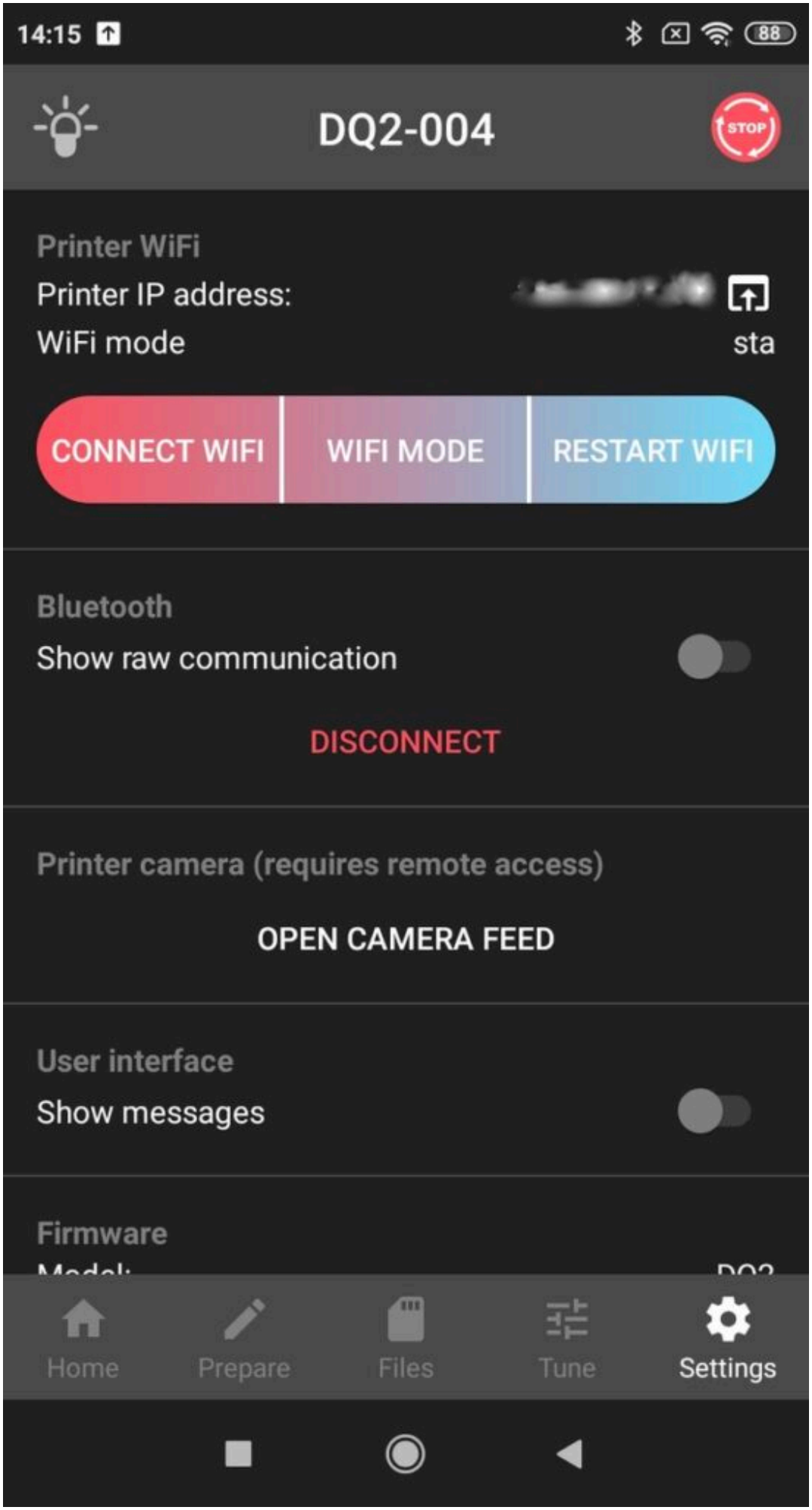
Finally clean all filament from underneath of the nozzle and pressing *OK* the print will continue.


12:26
DQ2-005
STOP
55.0
215.1
55.0
215.0
Print Bed [°C]
Print Head [°C]
PRESET
PRESET
Change filament
Please remove any extruded filament and confirm to continue printing
OK
CHANGE FILAMENT
Send custom G code command (use with caution!)
M118 S"Hello"
Home
Prepare
Files
Tune
Settings

The last section is for sending Gcode commands, if you know them.

Screen Settings

You can connect the printer to a Wi-Fi network (*CONNECT WIFI*) in Settings, the last tab of the application or change the mode in which the printer is available. You will also find the IP address that the printer received when connected to your network and through which you can access WebControl in a web browser.


14:15
88
DQ2-004
STOP
Printer WiFi
Printer IP address:
WiFi mode
sta
CONNECT WIFI
WIFI MODE
RESTART WIFI
Bluetooth
Show raw communication
DISCONNECT
Printer camera (requires remote access)
OPEN CAMERA FEED
User interface
Show messages
Firmware
Home
Prepare
Files
Tune
Settings

By default, the printer searches for known Wi-Fi networks in the area and tries to connect to them. The Auto and Client modes are used for this. While in Auto mode, the printer will try to connect to the network and then switch to AP mode after a failure. In Client mode, the printer will still try to connect to the network.

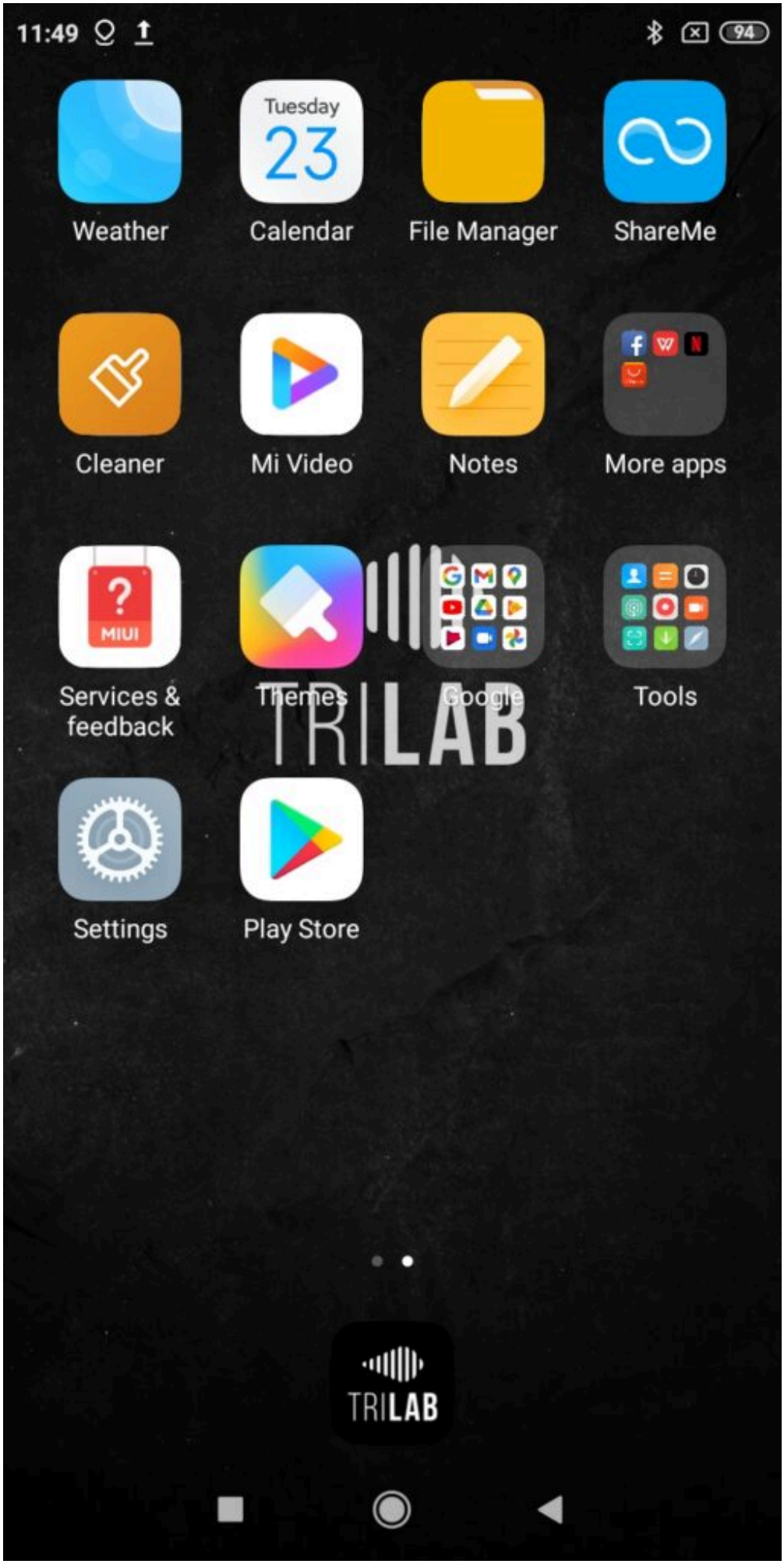
If the printer does not find any network or the connection cannot be established, the printer switches to AP mode and allows other devices to connect to it (then it is advisable to enter the password to establish a connection to the corporate network). Choose the network with the same name as your printer’s serial number nad use the password 12345678. In web browser use 10.0.0.5 IP adress. If the WiFi is too weak, use the ethernet adapter and cable for direct connection with your PC (no password needed). For this kind of connection the IP adress is 19.168.1.23

Note: The default password for connecting to the printer in AP mode is 12345678. This password can be changed in the printer’s online interface (as described below).

At the very end you will find information about firmware and application versions that can help you in your communication with service personnel.

DeltaControl updates

As part of continuous development, updates are provided for the DeltaControl application. Without these updates, the connection to the printer may not work properly. To check/download updates, connect your phone to a Wi-Fi network or a hotspot you have created and select the Play Store application in the DeltaControl display (the application name can also be Google Play or Play Store). it is located below TRILAB in the image below, but location may vary.


11:49
94
Weather
Tuesday
23
Calendar
File Manager
ShareMe
Cleaner
Mi Video
Notes
More apps
MIUI
Services & feedback
Themes
Google
Tools
TRILAB
Settings
Play Store
TRILAB

Then enter “trilab” into search field and confirm.


11:52
94
trilab
trilab
trilab hair shop

Choose te DeltaControl application by TRILAB. It should be on the top of the list.

11:52

trilab

Delta Control
TRILAB • Tools
Installed

Call of Duty®: Mobile
Activision Publishing, Inc. • Action
4.5★ 100M+

Komoot — Cycling, Hiking & Moun…
komoot GmbH • Health & Fitness
4.6★ 5M+ Editors' Choice

smart Chords & tools (guitar, bass,…
s.mart Music Lab • Music & Audio
4.7★ 1M+

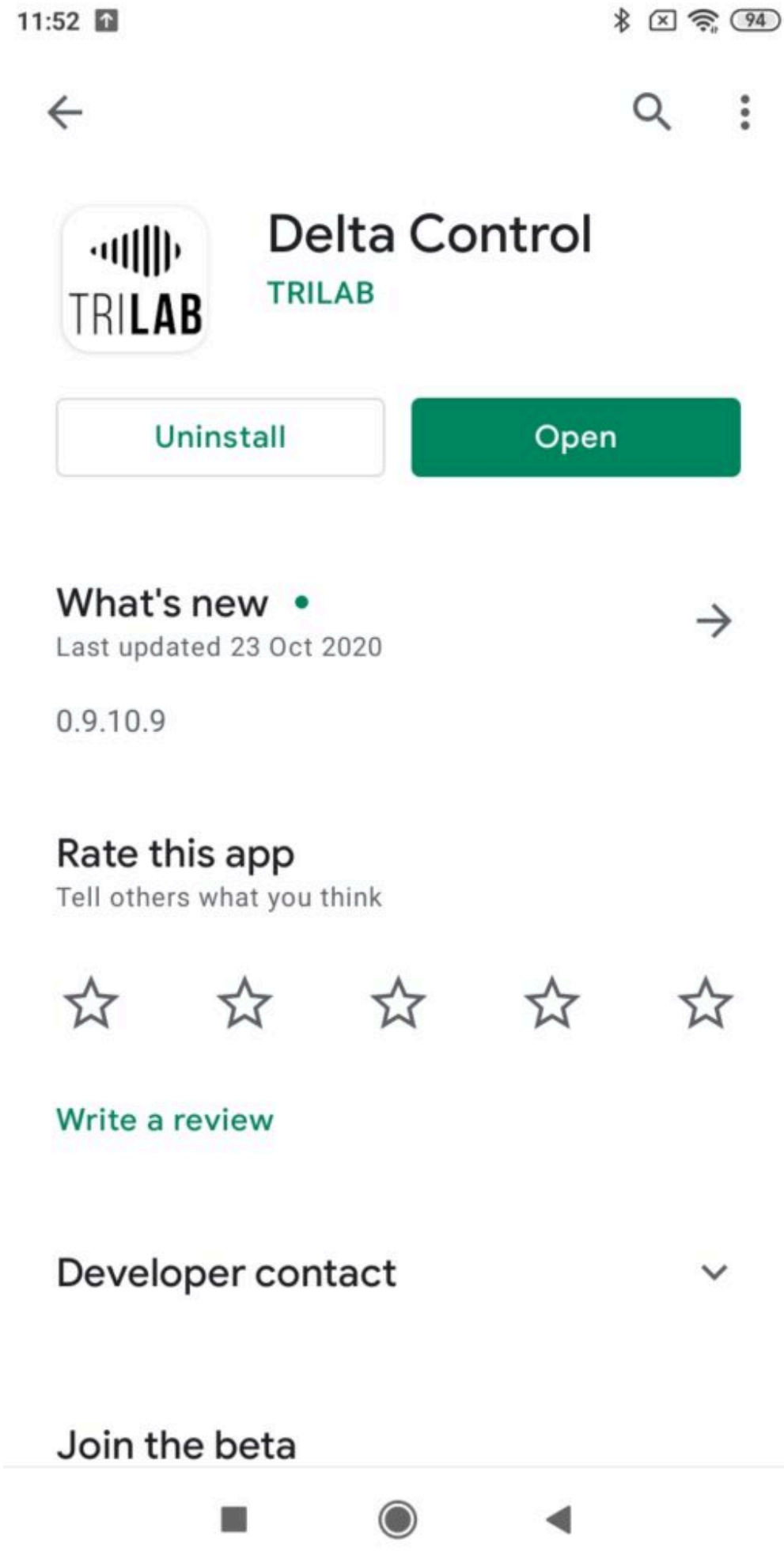
Block! Hexa Puzzle™
BitMango • Puzzle • Casual • Offline
3.9★ 50M+

Forge of Empires: Build your City
InnoGames GmbH • Strategy • Casual
4.3★ 10M+

Build a Bridge!
BoomBit Games • Puzzle • Casual
4.1★ 10M+ Editors' Choice

Light Ignite - Laser Puzzle

After clicikng on the DeltaControl application, you will find out whether the application is up to date according to the green button content. If the *OPEN* is written there, the application is updated. If you see the *UPDATE* button, updates are available and press it to download them.


11:52
94
Delta Control
TRILAB
Uninstall
Open
What's new
Last updated 23 Oct 2020
0.9.10.9
Rate this app
Tell others what you think
Write a review
Developer contact
Join the beta