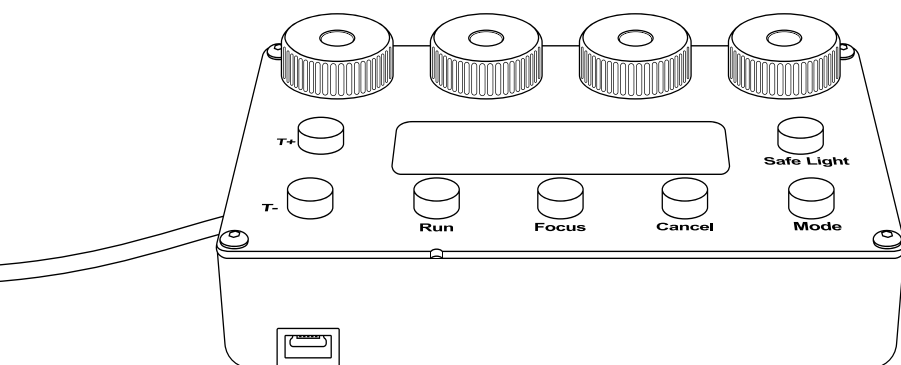


# Enlarger Timer

## Quickstart Guide



**Intrepid Camera**



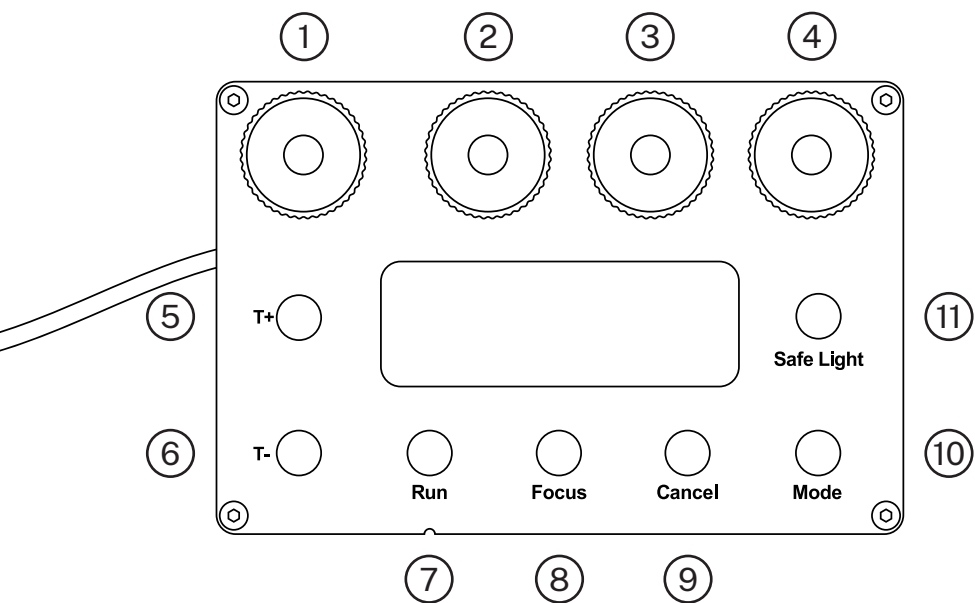
# Contents

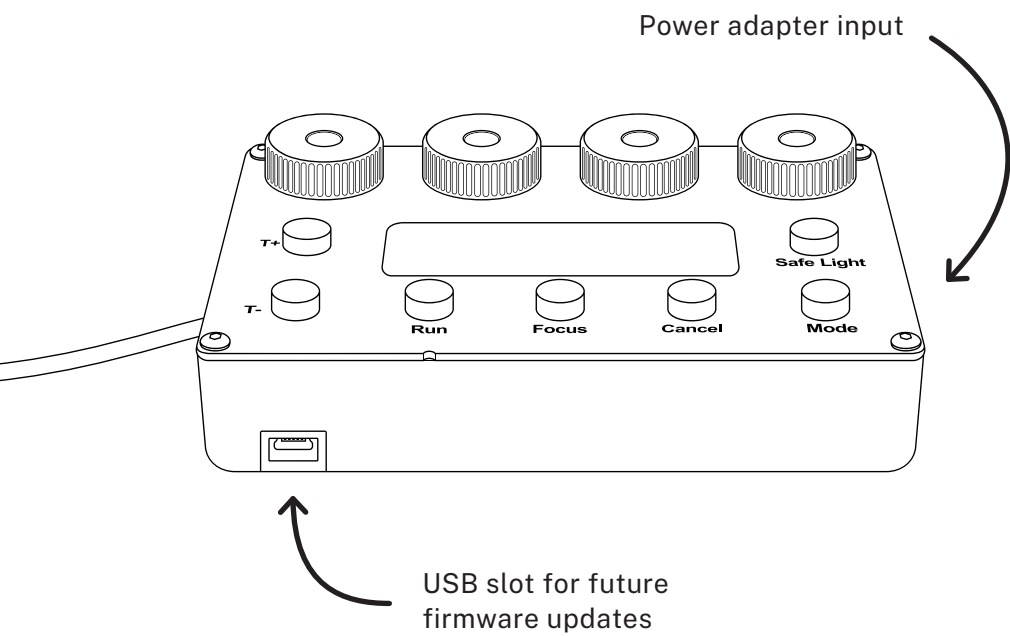
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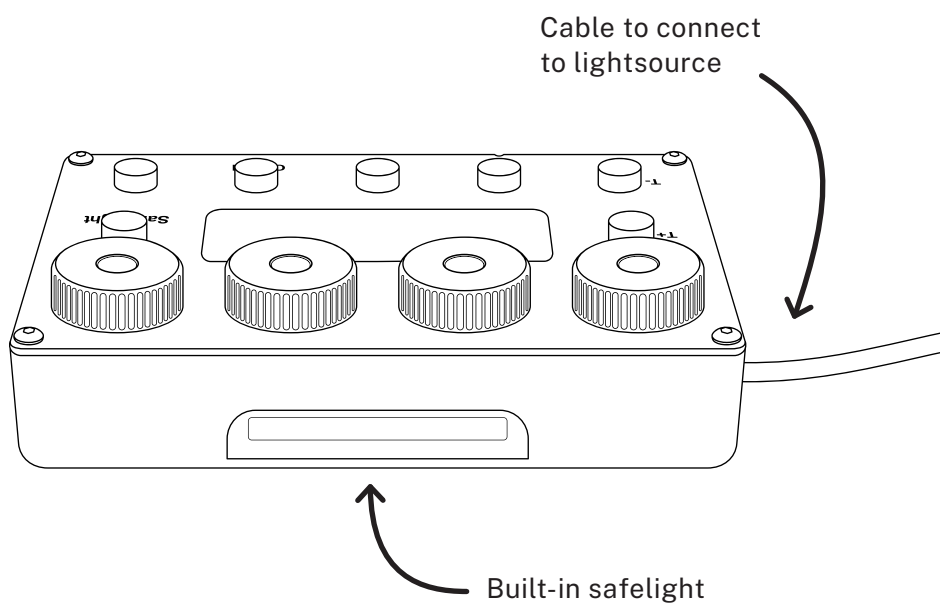


# Controls

- ① Contrast Adjustment Dial (B&W Mode Only)
- ② Cyan Adjustment Dial (Colour Mode Only)
- ③ Magenta Adjustment Dial (Colour Mode Only)
- ④ Yellow Adjustment Dial (Colour Mode Only)
- ⑤ **Time + :** Press or hold to increase time
- ⑥ **Time - :** Press or hold to decrease time
- ⑦ **Run:** Run / Pause timer / Start scan light / Change setting
- ⑧ **Focus:** Bright white light to focus negative (time out 5 mins)
- ⑨ **Cancel:** Stop the timer. Hold to reset the time to 00.00.0
- ⑩ **Mode:** Cycle through the modes, B&W, Colour, Scan and Settings
- ⑪ **Safe Light:** Toggle safe light (B&W) / Toggle screen light (Colour)







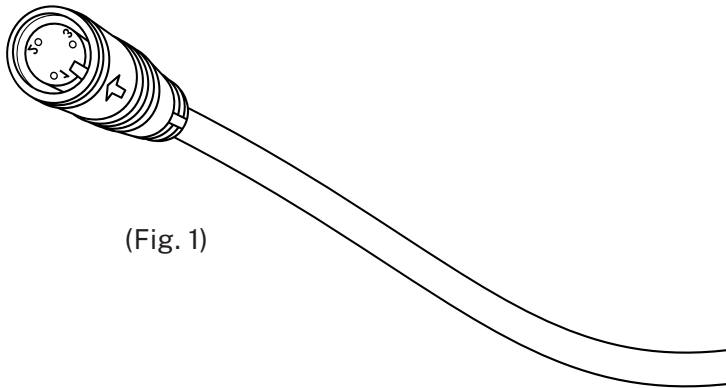
# Important notes

- The Intrepid Darkroom Timer is designed to work with all Intrepid Enlargers (Compact & 4x5 MK2). It will not work with any other brand of enlargers.
- The Intrepid Darkroom Timer comes supplied with a 5 volt 4 amp power supply, only use it with the provided power supply. Using any other power supply will cause filtration problems or may destroy the timer.
- Always keep the timer a little distance from your paper to avoid the screen backlight fogging it.
- The 3 pin connector on the timer is very stiff (due to being waterproof) it is designed to be left attached.
- If you do need to disconnect the timer please do so very carefully. Do not bend or twist the connector.



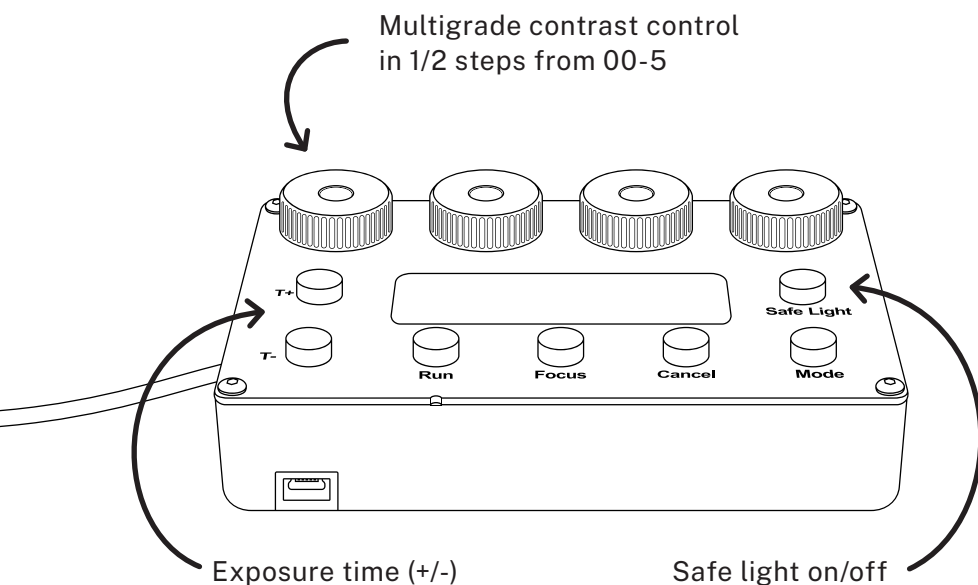
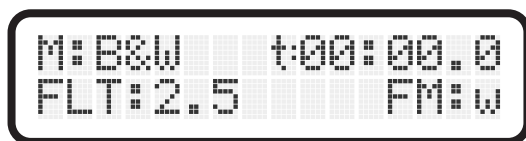
# Connecting the Timer

- To connect the Timer to an Intrepid Enlarger, carefully line up the pins, there are arrows on both connectors that help you align them (see fig. 1) and push them together.
- The connector is designed to be semi permanent and is quite stiff, however if you do need to disconnect the timer please do so very carefully.
- Do not twist or bend the connector when pulling apart. If you are having trouble removing it, try heating it slightly with hot air. If you are unsure contact our team (see page 19).



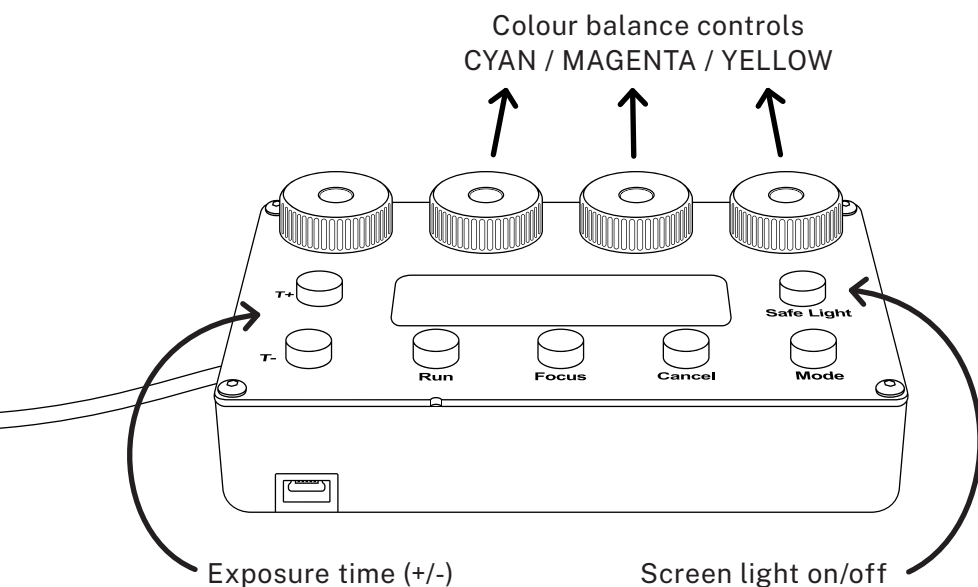
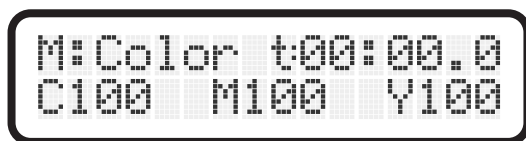
(Fig. 1)

# Black & White Mode



- By default the timer will start in B&W mode when powered on. If you are in another mode, press the '**Mode**' button to get back to B&W.
- In B&W mode you can print onto multigrade paper and adjust the contrast using the contrast adjustment dial. The contrast filtration numbers match the traditional gelatine filters, ranging from 00 (lowest contrast) to 5 (highest contrast).
- 00 will produce a green light and 5 will produce a blue light, this is different to traditional enlargers but produces results comparable to Ilford Multigrade enlarger light sources.
- If you go past 5 on the contrast dial, the screen will display "White Light", this is in case you want to use under the lens contrast filters, or are using fixed contrast paper.
- In B&W mode you can use the red safelight. The '**Safe Light**' button will toggle the light, this will automatically turn off if you leave B&W mode.
- Hold the '**Safe Light**' button to change the colour of the focus mode light. It will toggle between white and red. The current colour is shown by "FM:" on the screen.
- To make an exposure add the required time using the '**T+**' and '**T-**' buttons, then press '**Run**' to turn the enlarger light source on for the set time at the set contrast value.

# Colour Mode



- To access Colour Mode, press the '**Mode**' button until the screen shows "M:Color".
- In Colour Mode you can set the Cyan, Magenta and Yellow filters to adjust the colour balance of your print.
- Start With the following Values: 100C 100M 100Y
- Adjust the M and Y values to achieve your desired results, you can use the chart bellow for a rough starting guide. Continue to add and subtract M & Y to get your desired result.

Too Yellow + 2Y

Too Blue - 2Y

Too Green - 2M

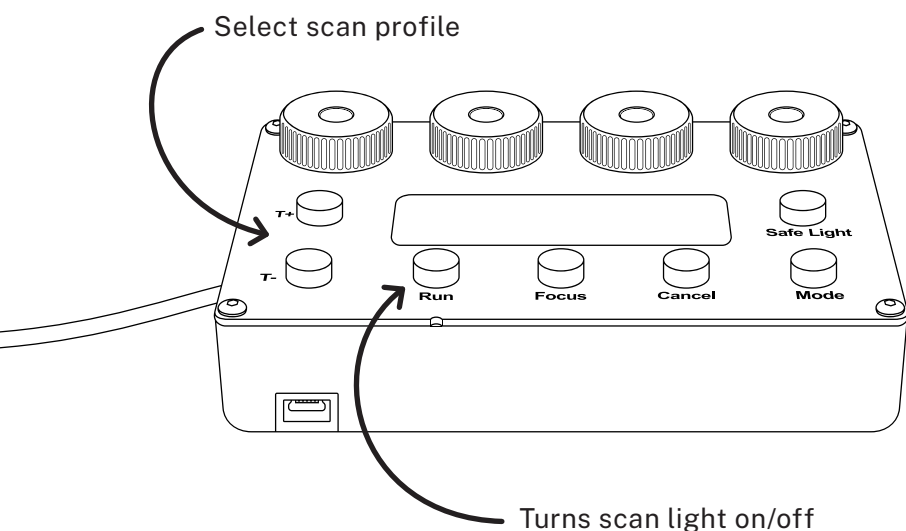
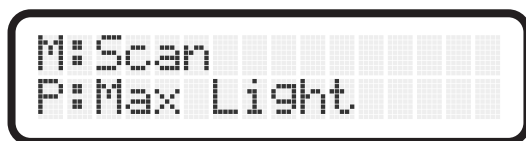
Too Magenta + 2M

Too Cyan - 2Y & - 2M

Too Red + 2Y & + 2M

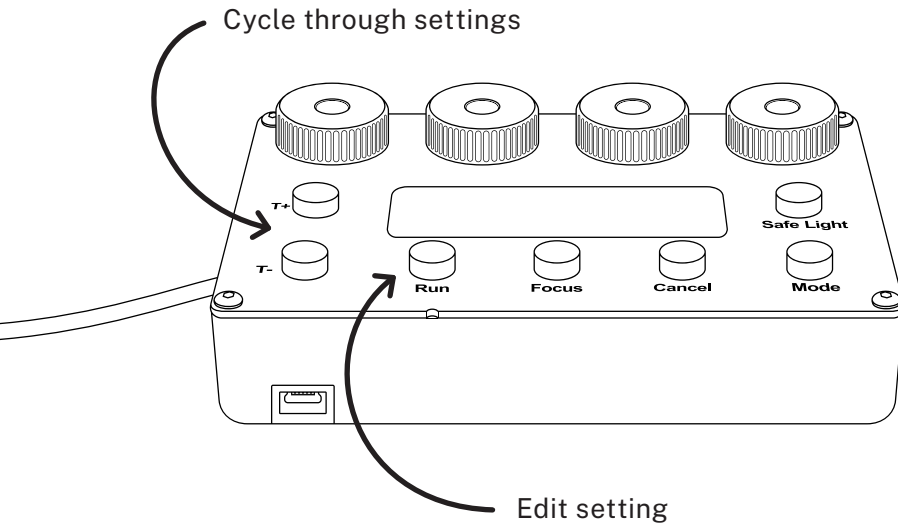
- The Cyan filter can be left at 100 and only tends to need to be used when printing more artistic films like Cinestill and Cross Processed negatives.
- Press the '**Safe Light**' button to turn the screen backlight on/off. The controls will be locked out while the screen is off to avoid accidental changes. The red safelight will not activate in Colour Mode as RA4 Paper is sensitive to red light.
- To make an exposure add the required time using the '**T+**' and '**T-**' buttons, then press '**Run**' to turn the enlarger light source on for the set time at the set CMY values.

# Scanning Mode



- To access Scanning Mode, press the '**Mode**' button until the screen shows "M:Scan".
- In this mode you will be able to use the enlarger light source as a backlight for digitising your film.
- You will need to use a digital camera with macro lens to then take a picture of the negative and invert it in photo editing software.
- To turn the light on/off use the '**Run**' button.
- To change the scan profile use the '**T+**' and '**T-**' buttons.
- There are 4 custom scan profiles that can be changed in the settings menu.

# Settings Mode



- To access the settings, press the '**Mode**' button until the screen shows "M:Settings"
- Use the 'T+' and 'T-' buttons to cycle through the settings. Any settings changed will be retained if powered off.



- **Setting 1: BrightnessBW**

This setting will allow you to change the brightness of the enlarger (B&W mode only). Useful if you have very short exposure times. To change the setting press the 'Run' button (the ":" will flash to show it's in edit mode), then use the Contrast dial (grey dial) to change the value, then press 'Run' again to confirm the value. The default value is 255.

- **Setting 2: StartMode**

This setting will change the mode that is displayed first when powered on. Use the 'Run' button to cycle through the modes.

- **Setting 3: SaveCurrentTime**

Press the 'Run' button to store the time that is currently set on the timer. This will then be the default time on startup.

Press the 'Cancel' button to clear the stored time.

- **Setting 4: EditCustomScan**

Press the 'Run' button to enter the edit custom scan mode. The LED light box will light up showing the current profile, press the 'T+' or 'T-' buttons to change the profile.

To edit the profile press the 'Run' button (the ":" will flash to show it's in edit mode), then use the dials to change the W R G B values, press the 'Run' button again to confirm the edit.

The W value is limited to 200 to avoid overheating.

- **Setting 5: TimeStep**

Press the 'Run' button to cycle through the time step values, 0.1 sec, 0.5 sec, 1.0 sec. This will change the amount of time added or subtracted when pressing the 'T+' and 'T-' buttons. The default value is 0.5 sec.

# Misc Functions

- **Live Colour**

If you have a colour analyzer you may wish to have the light constantly display colour used to expose the image without the timer.

To activate Live Colour (while in '**Colour**' mode) press and hold the '**Safe Light**' button. The '**Focus**' light will now display the same colour as the light used to expose the image.

The dials can be used and the colour of the light is updated live as you adjust them. You can get back to normal colour mode by pressing '**Cancel**' or '**Mode**' or '**Safe Light**' buttons.

- **Soft Reset**

Hold '**Mode**' and '**Cancel**' to reset the timer (no saved settings will be lost).

- **Full Factory Reset**

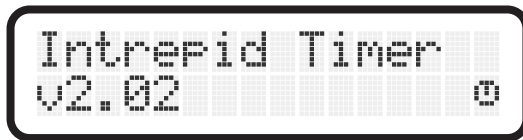
Hold '**Mode**' and '**Cancel**' while the timer is booting, then press '**Safe Light**' + '**Run**' + '**Focus**' to do a full factory reset.

All settings and custom scan profiles will be cleared.

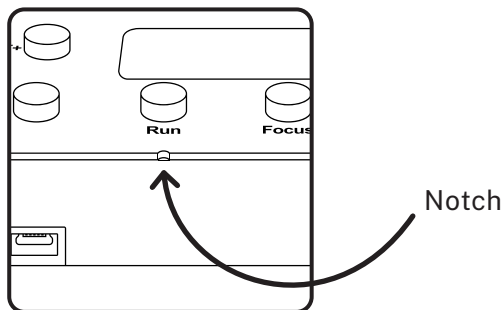
- **Sys Info**

Hold '**Safe Light**' and '**Focus**' while the timer is booting, this will display the chip type so the correct firmware can be selected if updating the timer.

- The firmware version is shown at boot (as shown below). If you would like to perform a factory reset or get sys info, it's easier to soft reset the timer then hold the button combination rather than holding the button combination and plugging it in at the same time.



- We have added a notch to the top panel to help you locate the 'Run' button when colour printing in full darkness. The 'Focus' button is locked out while the LCD screen is off but this should help to stop you hitting other buttons or dials accidentally.



# FAQ

**In B&W mode my focus light is quite dark and red.**

You have activated the red focus light. Solution, switch back to white light, hold the 'Safe Light' button until it shows **FM:w**

**In B&W mode my print light is green/blue.**

This is normal, as our light uses LEDs we can expose the paper with the colours that it is sensitive to directly without the need for external filters.

**In B&W mode my print light is very dark.**

It's likely that you have set the Brightness low or off in the settings menu. Solution, set the Brightness back to 255. We recommend using 255 and only changing it if you're having trouble with very short exposure times.

**In Colour mode the range of numbers for each colour is different.**

Don't worry, the ranges of numbers are correct, they do not relate to traditional enlarger scales.

The ranges are **C:88-245 M:26-124 Y:32-112**

There are a few reasons for ranges being like this:

We have set a good starting point for a colour print so the numbers would be 100 100 100 (offsetting the negatives base colour etc).

The numbers are limited to a range that is actually useful for printing and that the system can produce.

In addition the yellow can only be changed in steps of 2, this was to bring the adjustment in line with the other colours as some LEDs are near their max or minimum possible value. There are no steps lost and there are no phantom steps, it's just scaled on the display.

## Contact Us

If you have any questions or issues you can contact us at:

**Live chat:** [intrepidcamera.co.uk](https://intrepidcamera.co.uk)

**Email:** [hello@theintrepidcamera.co.uk](mailto:hello@theintrepidcamera.co.uk)



# **Intrepid Camera**

v2.11 +