



# **Desktop Station air**

Introduction rev.7

Mar 21, 2019

## DSair2

DCC command station supported Wi-Fi with smartphones. Very small and compact.



## DSmain

Large layout and PC automatic control system use. Our flag-ship command station.



## DSwatch

DCC decoder with LCD and button. You can easily check DCC pulse and information on the track!  
It's very useful for troubleshooting.

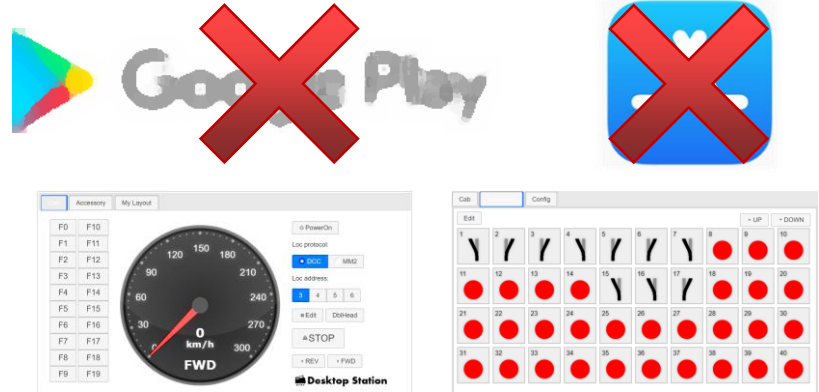


## (1) Control with your friends



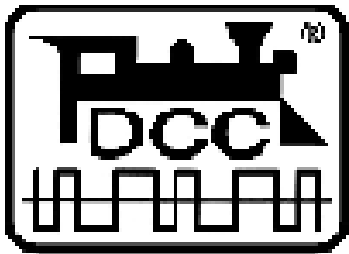
DSair can support with some smart phones sametime! Join and Play!

## (2) App install is not required.



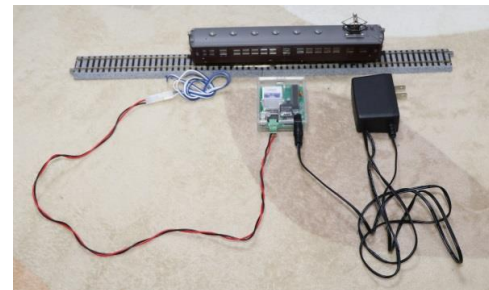
Browse <http://flashair>  
Your browser is app screen.

## (3) Global Standard



Supported Global famous DCC locos and decoders. We have NMRA DCC Manufacture ID 140.

## (4) Very compact!

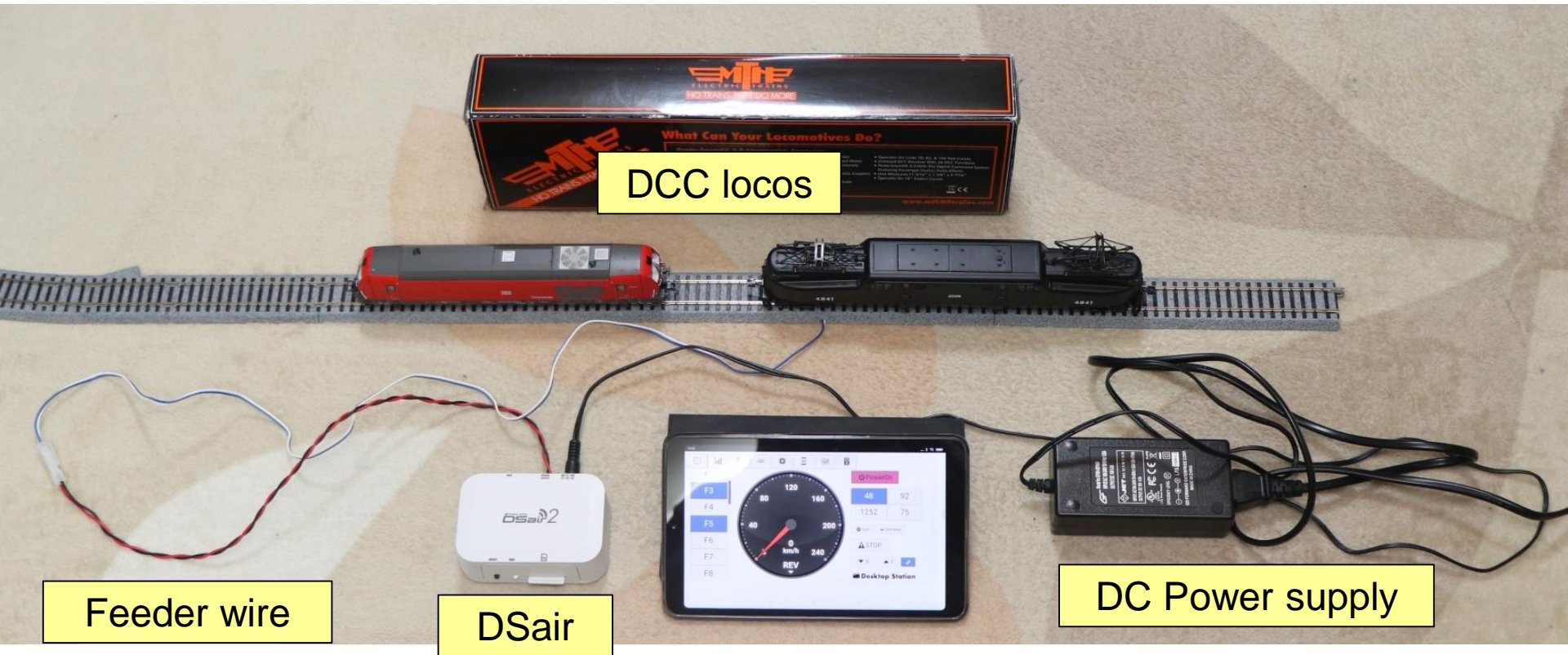


Not required Wi-Fi router and PC.  
DSair is Wi-Fi access point.

- Internal Wi-Fi AP & Web server
- Easy Cab control
- F0-F28 fully control available
- CV read & write
- Hidden S88-N hardware I/F (for professional users)
- MP3 play on your smartphone
- BASIC programming language supported
- USB firmware update and PC control (alternatively)

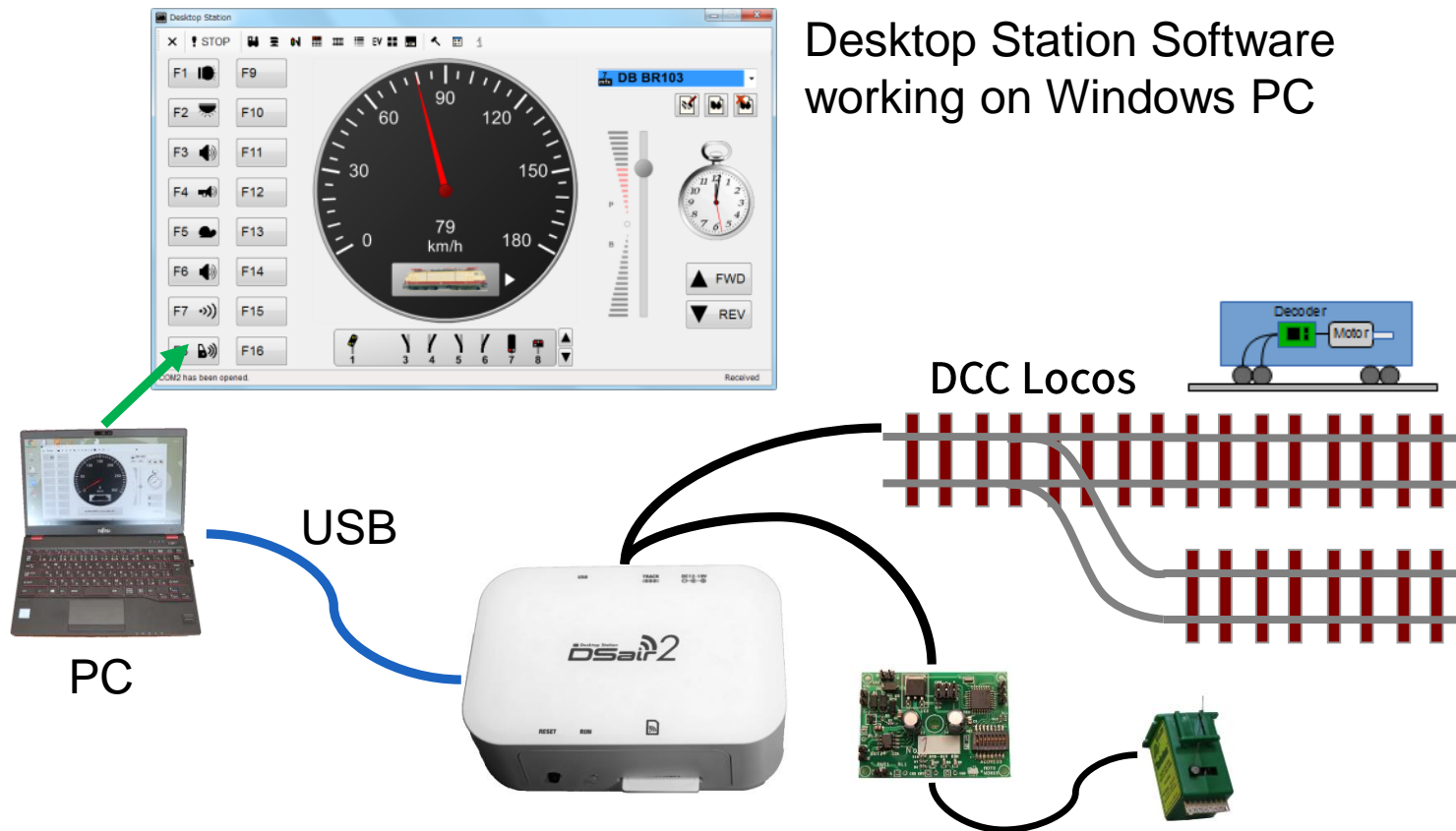


- DSair requires the following items.

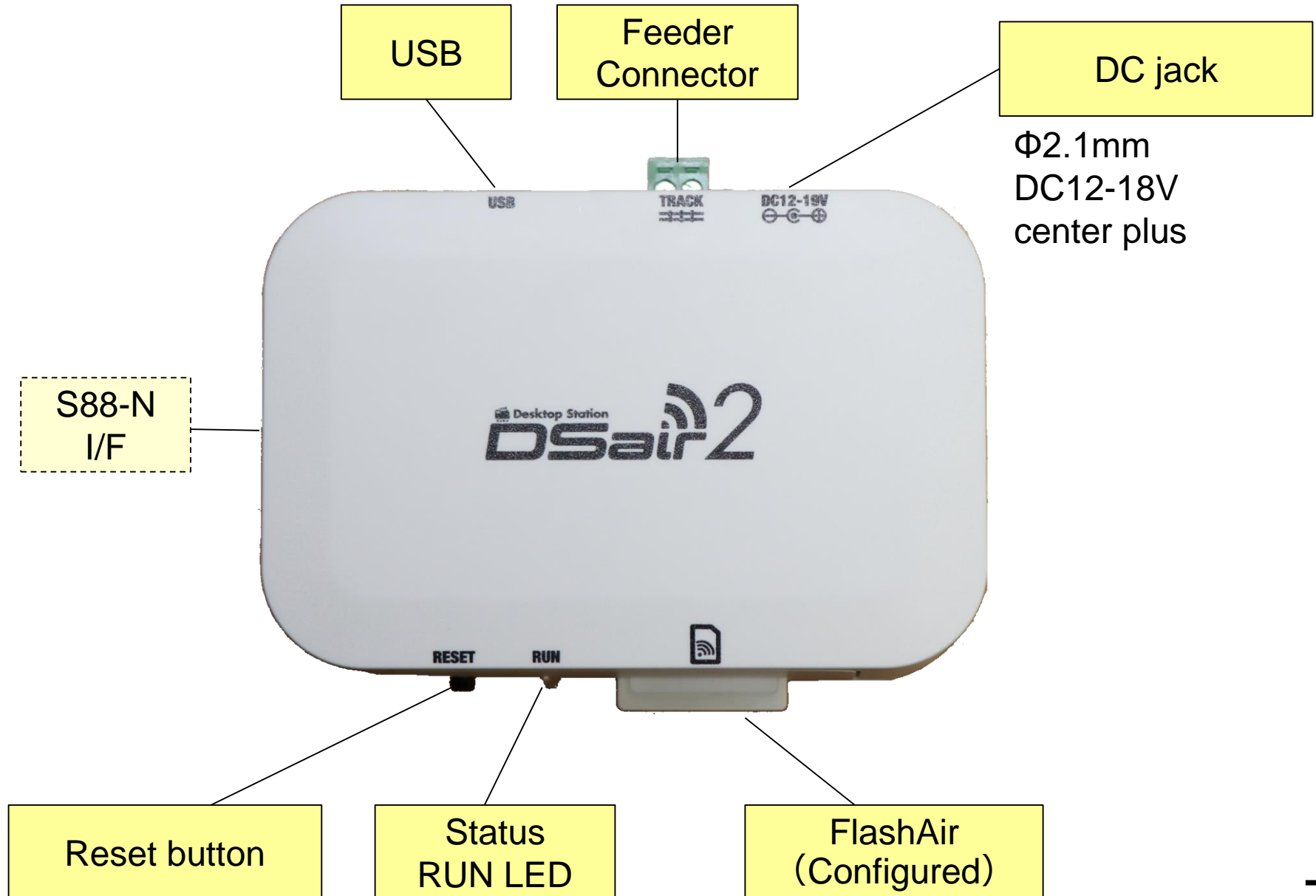


**DSair2 has Wi-Fi AP. Very simple wiring!**

This connection type is Desktop Station's traditional PC based architecture. DSair2 has new Wi-Fi AP and WebApp solution but traditional type is also supported. However, This type requires specified firmware(DSone sketch) update and Wi-Fi AP and WebApp are not supported.



Desktop Station Software  
working on Windows PC





You can see **FlashAir\_\*\*\*\*\*** (\*\*\*\*\* means numeric and alphabet) at Wi-Fi SSID list. Password is **12345678**. Please access this SSID via your smartphones, PC, tablets.

- Open <http://flashair/> with your browser.



Our recommended internet browsers are followings.

- Chrome <-- High Recommended
- Safari <-- High Recommended
- Firefox
- Opera



The image shows a software interface for a train control system, specifically the 'Cab Tab'. At the top, there is a row of icons for different system components: a clock, a bar chart, a signal, a track, a microchip, a smartphone, a keyboard, a speaker, and a 'Basic' button. Below these is a large circular speedometer with a red needle pointing to 0 km/h. The speedometer has markings for 40, 80, 120, 160, 200, and 240 km/h. To the left of the speedometer is a vertical stack of function buttons labeled F0 through F6. To the right is a control panel with a 'PowerOn' button, a digital display showing '3', an 'Edit address' button, an 'Edit' button, a 'DblHead' button, a 'STOP' button, a 'Dir' button, and a 'Direction' button. A 'Track power' label points to the 'Basic' button. A 'Functions' label points to the F0-F6 buttons. A 'Speedo meter' label points to the speedometer. A 'Stop all' label points to the 'STOP' button. A 'Direction' label points to the 'Direction' button. A 'Dir' label points to the 'Dir' button.

Track power

PowerOn

3

address

Edit address

Edit

DblHead

STOP

Dir

Direction

Stop all

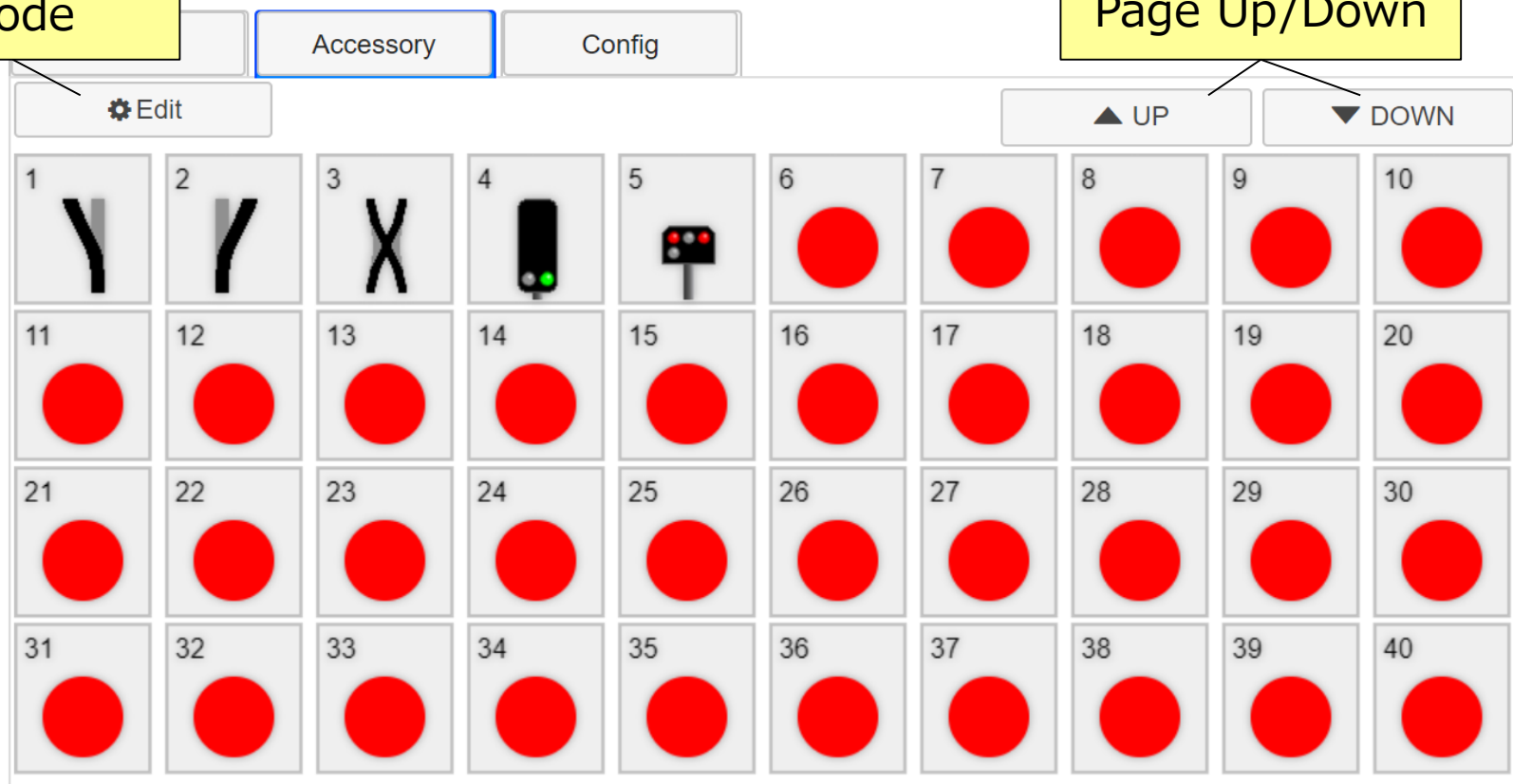
Functions

Speedo meter

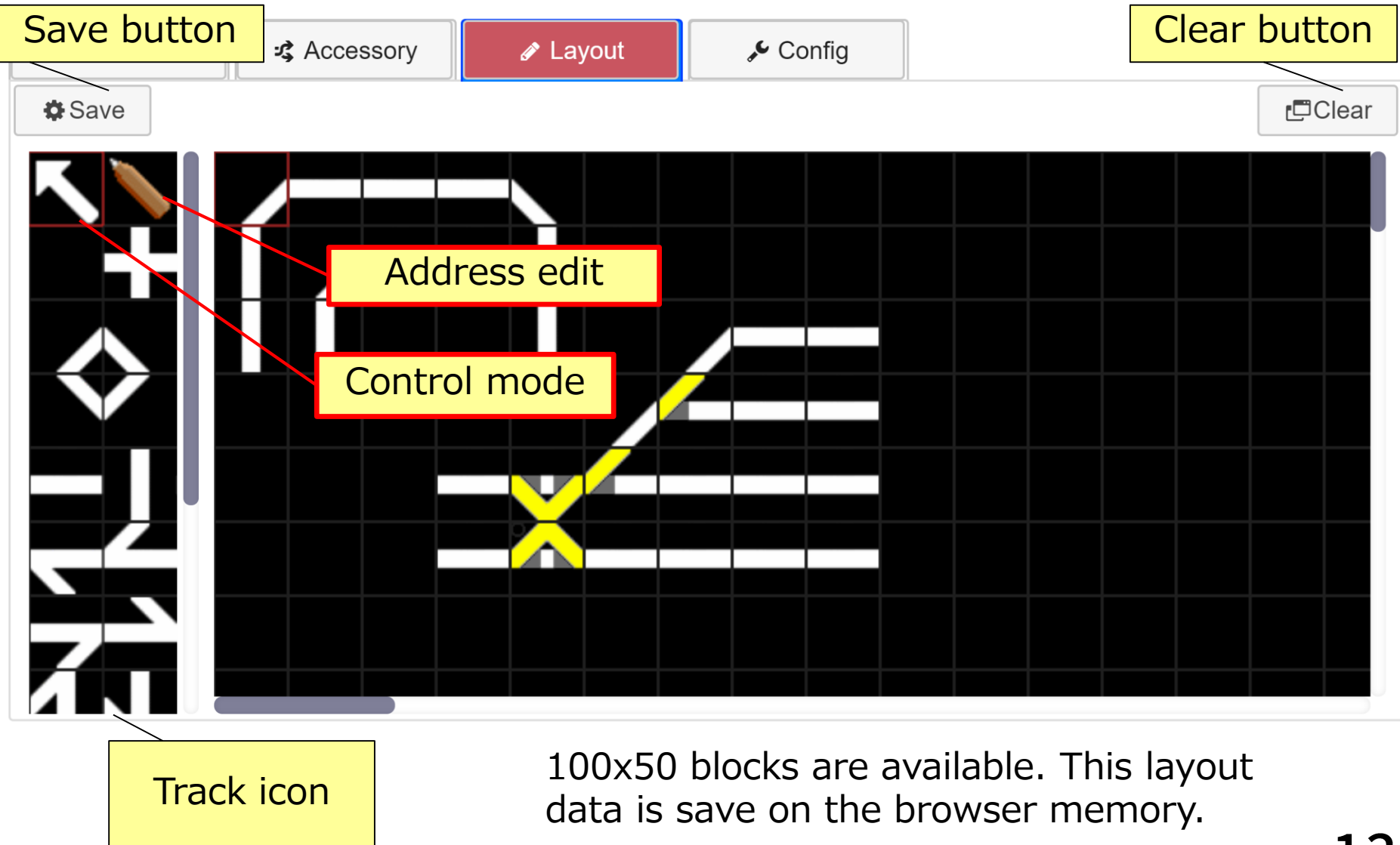
Desktop Station

Icon change  
mode

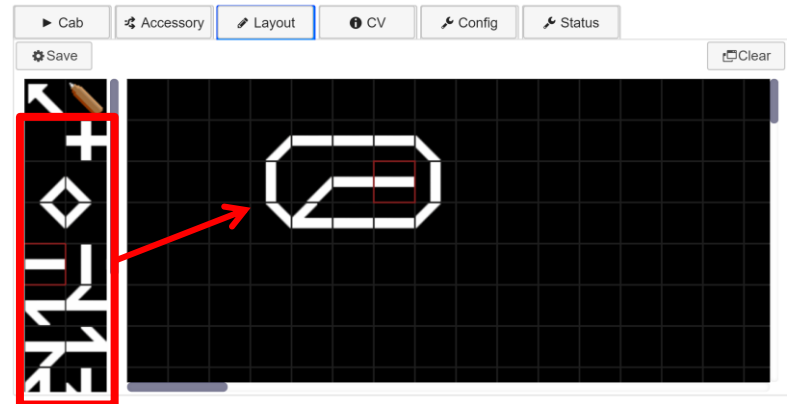
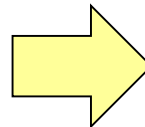
Page Up/Down



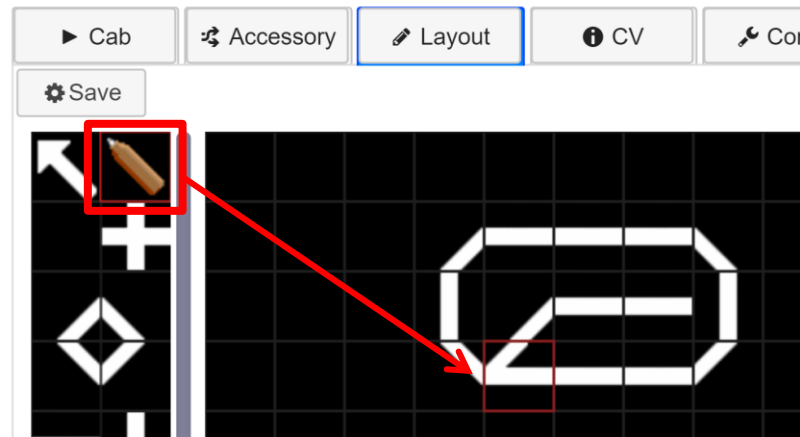
If you want to change protocol(DCC/MM), use config menu.



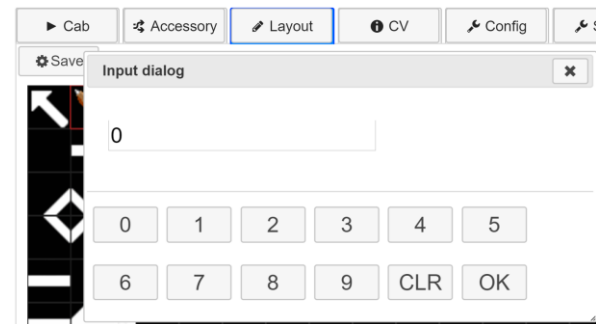
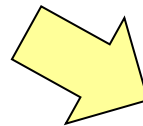
# How to use track layout 1



Select track icon. After that you can draw layout on the map.

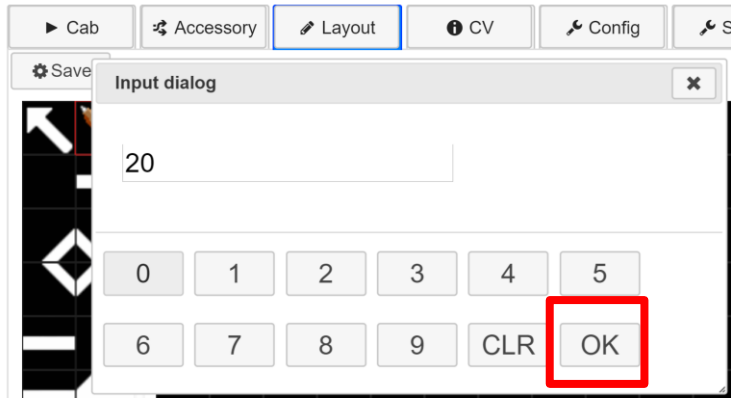


Select Pencil icon. Double tap on the turnout icon. You can see edit mode.

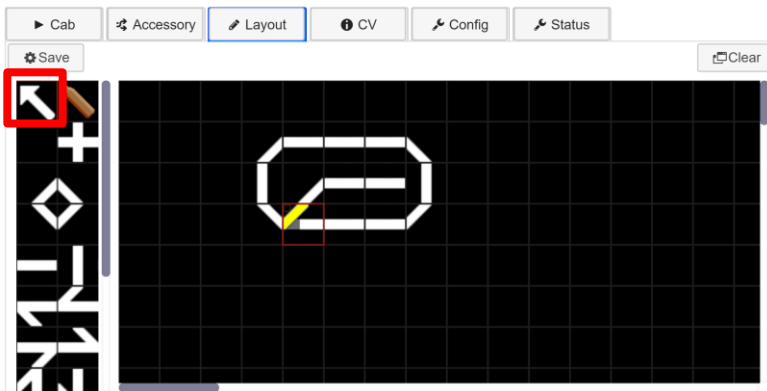
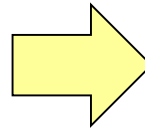


Enter turnout address. 0 means undefined.

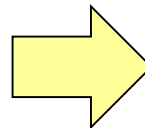
# How to use track layout 2



E.g. enter 20. then tap OK button.



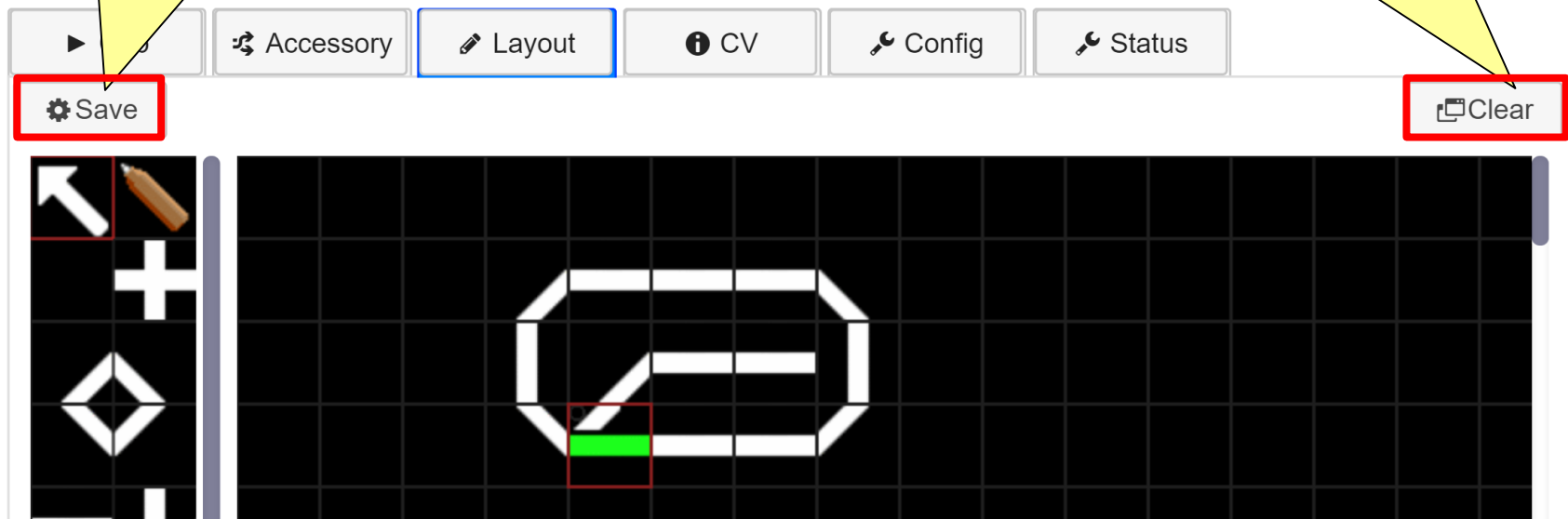
Select Arrow icon. You can change the turnout when Power-on.



You can see direction of turnout icon changed.

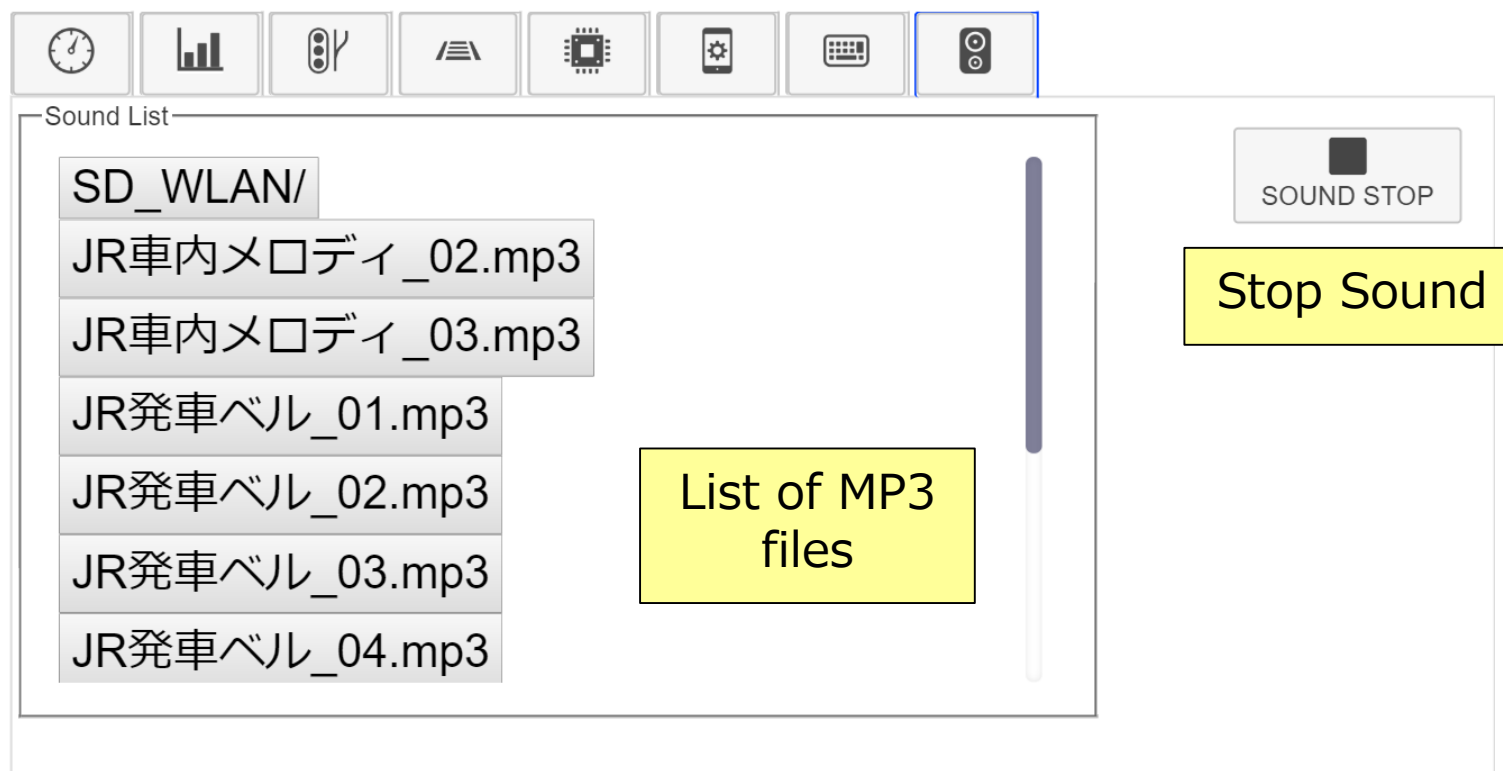
Attention!  
Edited track layout data will  
be saved after press save  
button.

If you want to clear track layout,  
press this button.  
Also you want to clear saved data,  
press save button after clear.

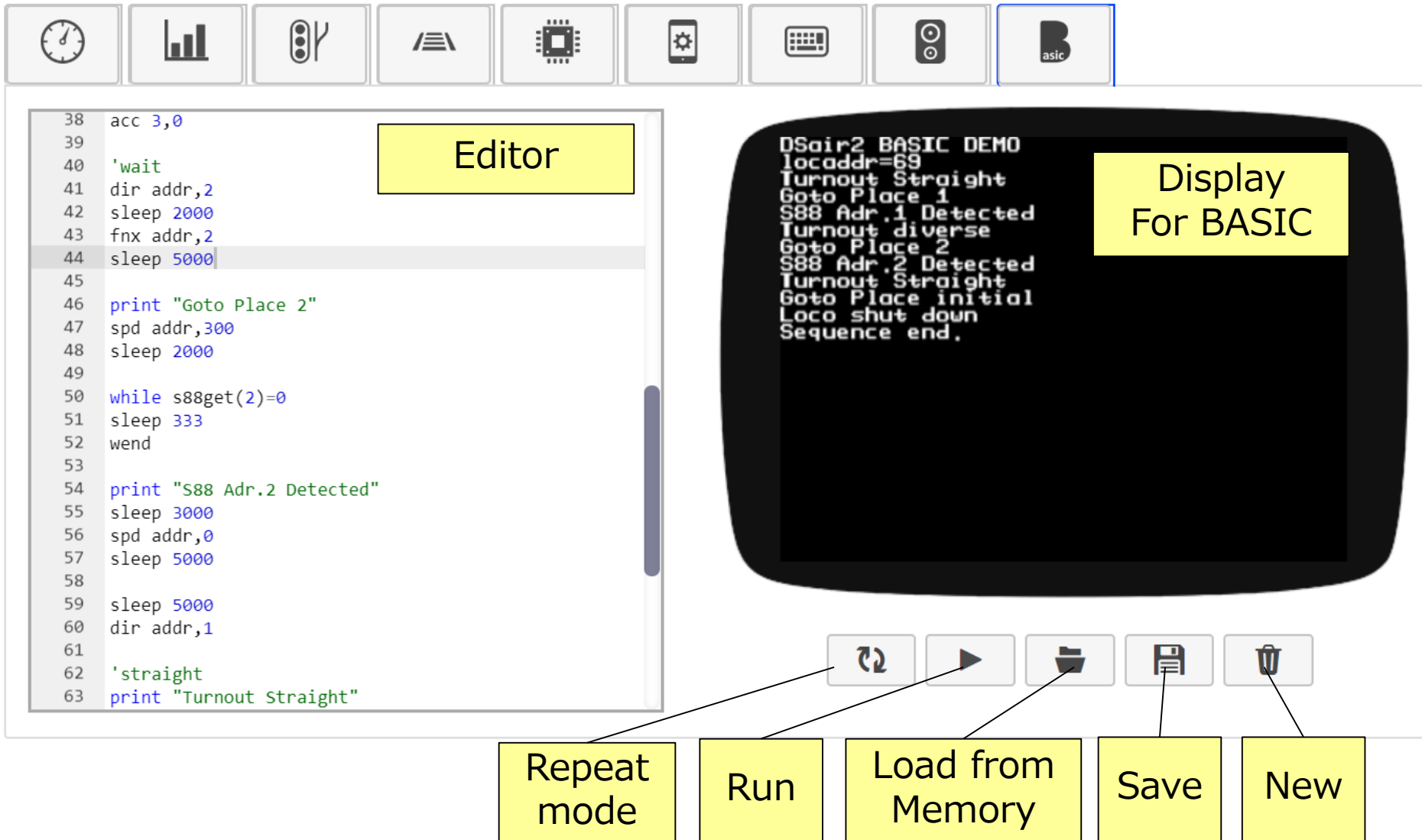


This track layout data is saved in your browser memory  
area(Currently version).

You can play mp3 files in the FlashAir SD card.



If used Bluetooth speaker, you can play anywhere!  
PDF and BASIC files are also supported.



The interface features a top toolbar with icons for clock, bar chart, oscilloscope, keyboard, microchip, settings, keyboard, speakers, and the BASIC tab (highlighted). The main area is divided into two windows:

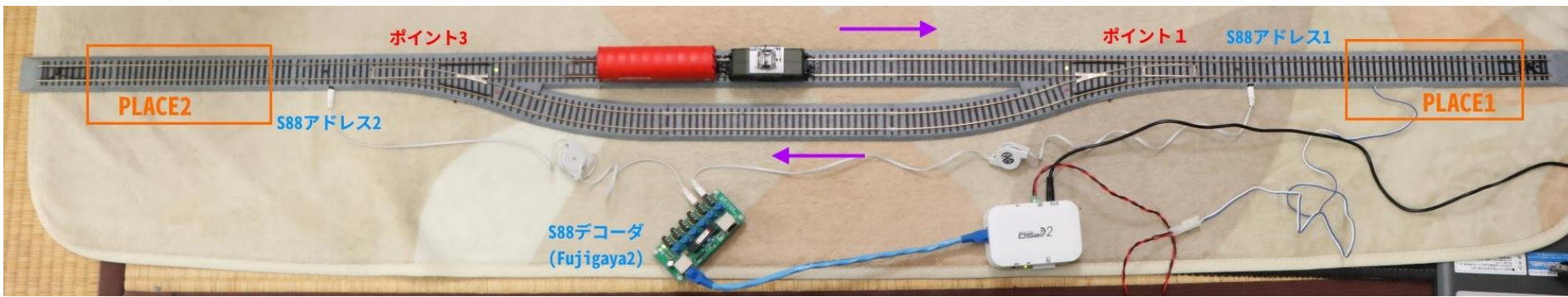
- Editor:** Contains BASIC code for a demo program.
- Display For BASIC:** Shows the output of the program.

Below the windows is a control bar with five buttons: Repeat mode, Run, Load from Memory, Save, and New. Arrows point from these labels to their respective buttons.

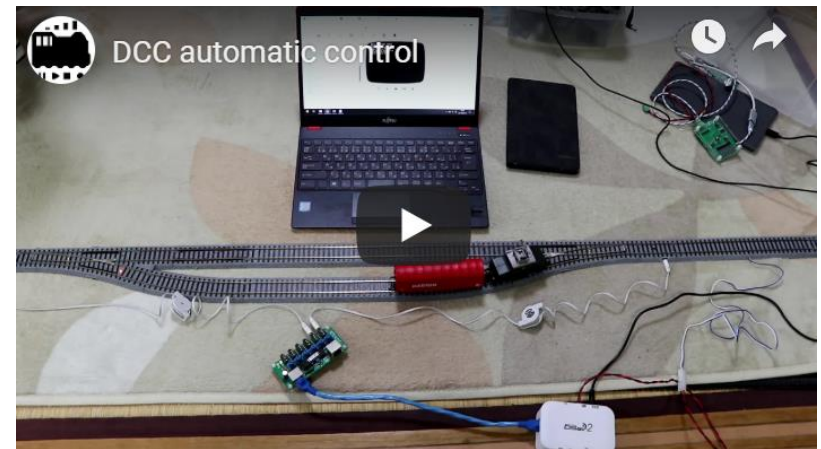
```
38 acc 3,0
39
40 'wait
41 dir addr,2
42 sleep 2000
43 fnx addr,2
44 sleep 5000
45
46 print "Goto Place 2"
47 spd addr,300
48 sleep 2000
49
50 while s88get(2)=0
51 sleep 333
52 wend
53
54 print "S88 Adr.2 Detected"
55 sleep 3000
56 spd addr,0
57 sleep 5000
58
59 sleep 5000
60 dir addr,1
61
62 'straight
63 print "Turnout Straight"
```

DSair2 BASIC DEMO  
locaddr=69  
Turnout Straight  
Goto Place 1  
S88 Adr.1 Detected  
Turnout diverse  
Goto Place 2  
S88 Adr.2 Detected  
Turnout Straight  
Goto Place initial  
Loco shut down  
Sequence end.

Repeat mode   Run   Load from Memory   Save   New



- Using Fleischmann's ED69 DCC loco
- Turnouts have internal decoders
- BASIC program works on smartphones, PC.
- S88-N is available.



<https://www.youtube.com/watch?v=OsRcYJyNkA0>

More info: <http://powerele.sblo.jp/article/185725380.html>

```
screen(7)
s88start
print "DSair2 BASIC DEMO"
```

```
addr = getslotaddr(0)
print "locaddr=";addr
```

```
'straight
print "Turnout Straight"
acc 1,1
acc 3,1
```

```
dir addr,1
fnc addr,0,1
fnc addr,1,1
sleep 20000
fnx addr,2
sleep 1000
```

```
print "Goto Place 1"
spd addr,400
sleep 2000
```

```
while s88get(1)=0
sleep 333
wend
```

```
print "S88 Adr.1 Detected"
sleep 500
spd addr,0
sleep 5000
```

```
'diverse
print "Turnout diverse"
acc 1,0
acc 3,0
```

```
'wait
dir addr,2
sleep 2000
fnx addr,2
sleep 5000
```

```
print "Goto Place 2"
spd addr,300
sleep 2000
```

```
while s88get(2)=0
sleep 333
wend
```

```
print "S88 Adr.2 Detected"
sleep 3000
```

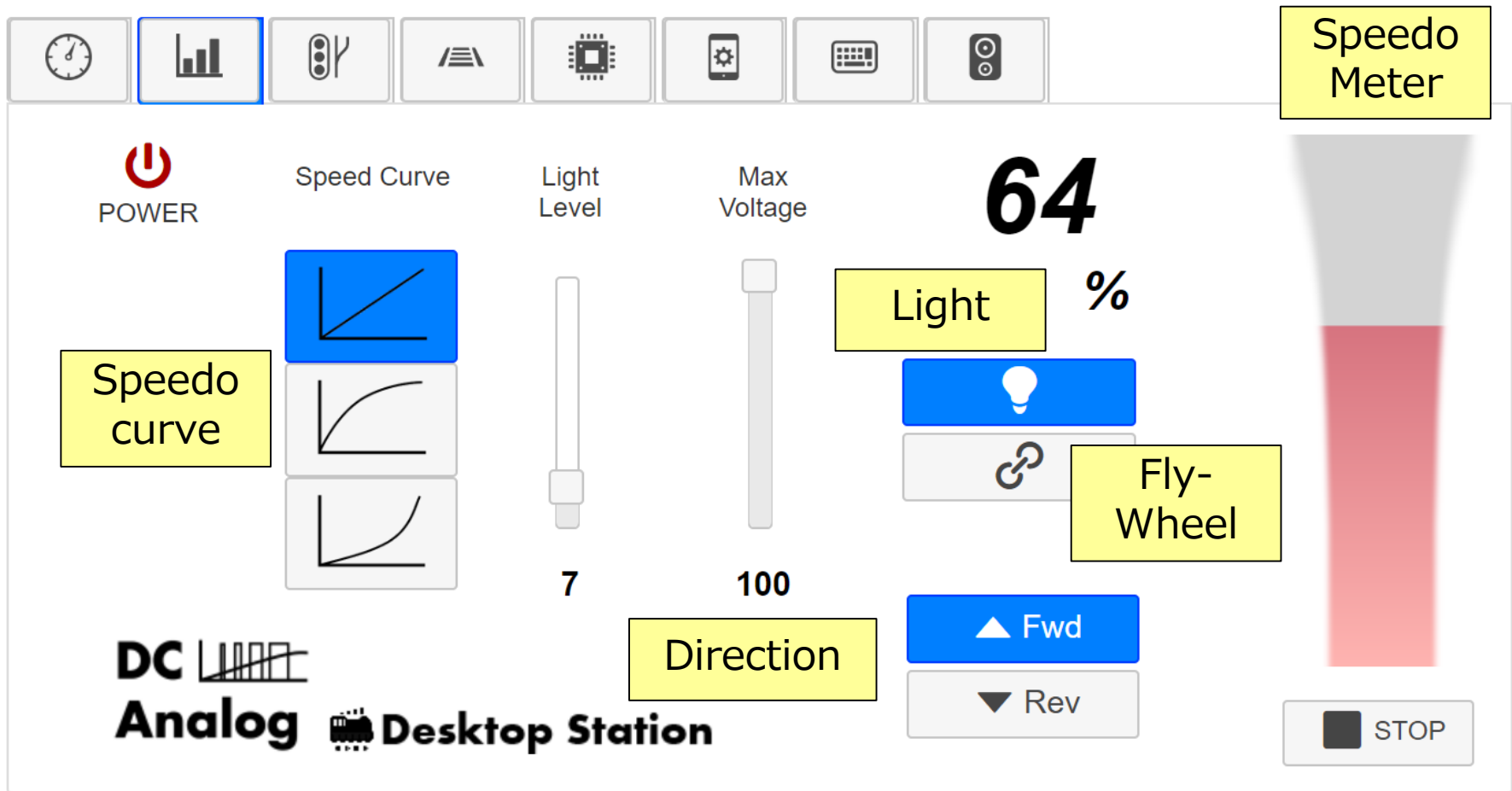
```
spd addr,0
sleep 5000
sleep 5000
dir addr,1
```

```
'straight
print "Turnout Straight"
acc 1,1
acc 3,1
```

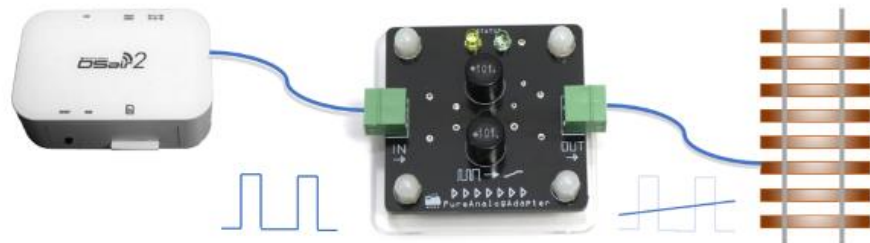
```
print "Goto Place initial"
spd addr,300
sleep 15000
spd addr,0
```

```
print "Loco shut down"
sleep 8000
fnc addr,0,0
fnc addr,1,0
sleep 30000
```

```
print "Sequence end."
end
```



Pure Analog Option  
is available!



CV List

CV No selector

CV1 ShortAddress

CV Value

3

CV Value change

Change

Set 1 to 99(127).

CV Write

CV Read

Read

Write

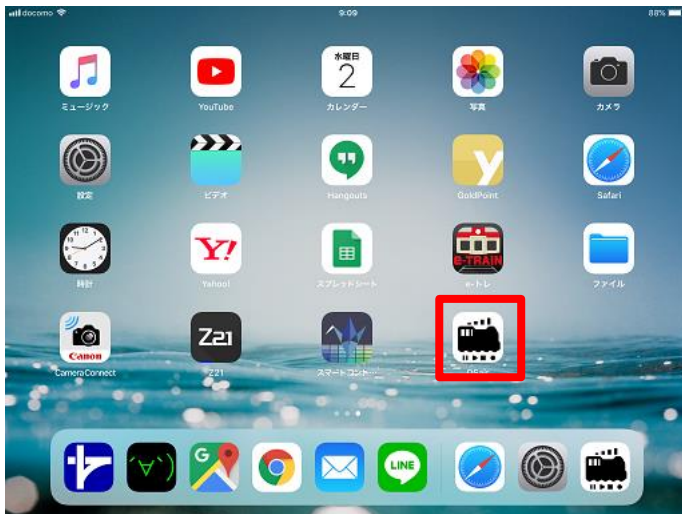
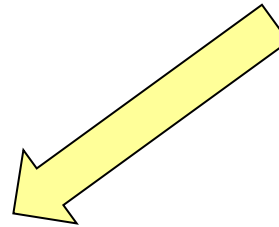
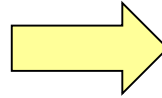
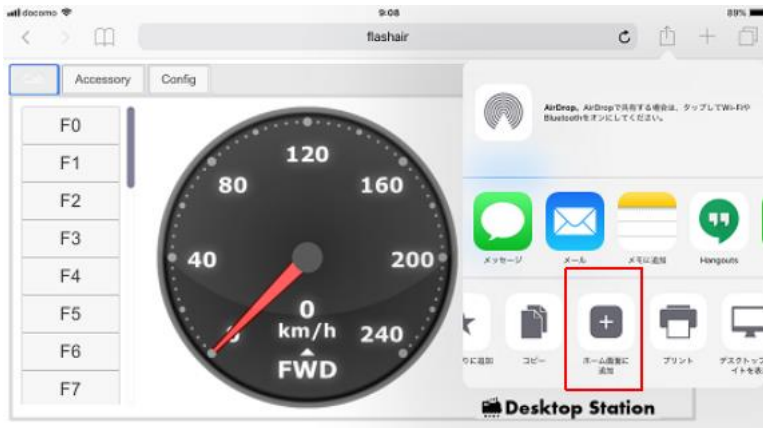
CV read

CV write

When wrote CV, the locomotive may run at the moment.

This CV function is available only DCC but not MM2.  
This function is available when the track is power-off.

- This web app is able to add to home screen. Check the following!





Fullset  
(excl. FlashAir)

19800JPY

Unsoldered  
KIT  
(excl. FlashAir)

12800JPY

-excl. DC power supply  
-excl. Feeder cable  
-w/o Shipping fee

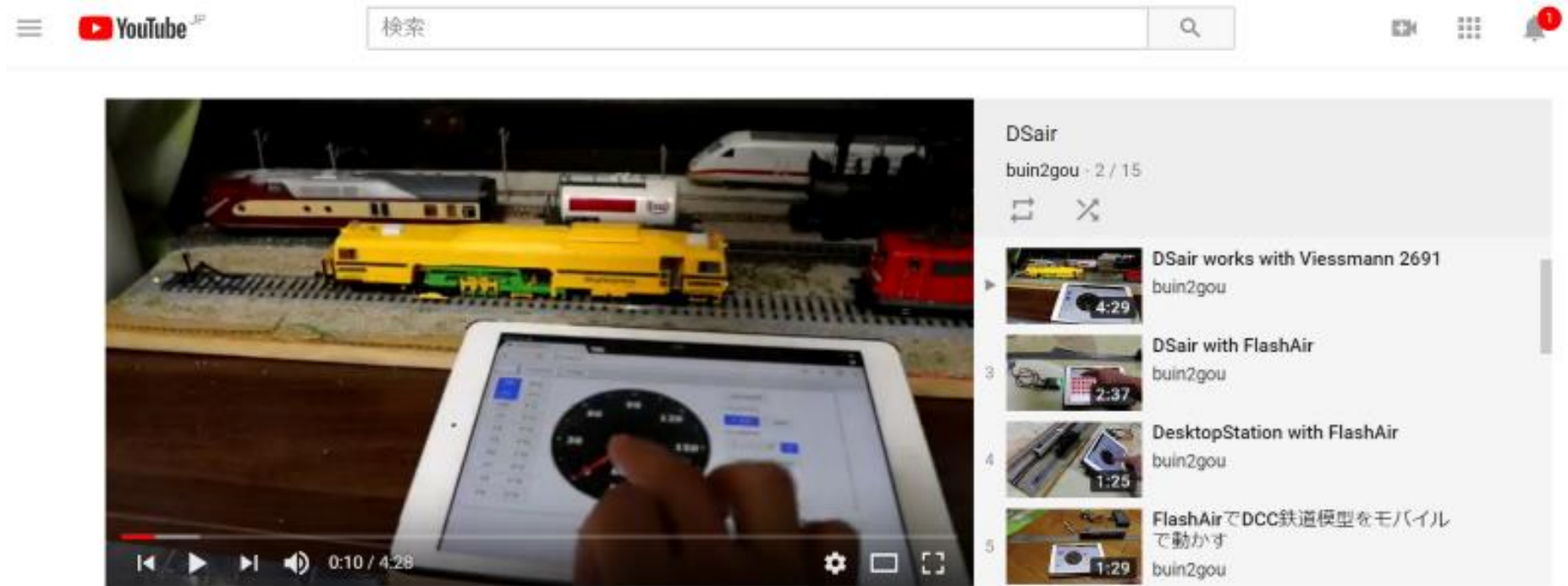
## Now on sale at Desktop Station Shop

Product page and information, instructions:  
<https://desktopstation.net/wiki/doku.php/dsair2>



Question	Our Answer
Can I control analog locos?	Yes, please use PWM analog powerpack mode. If you want to use coreless-locos, please use Pure analog adapter option.
How many locos are available?	N scale is 5 locos, HO scale is about 3 locos It depends on weight and rail condition.
How many smart devices are available?	Maximum 7 devices at same time. It depends on your Wi-Fi environment.
Can I buy at the store?	Only provided internet shopping.
Screen is not correct.	Old browser is not available for Dsair. Please use modern browser.
Suddenly stop.	If safety function works, press reset. Wi-Fi connection issue is also
Can't access Dsair after long wait time(30min or more)	Energy saving mode works after 50min. Press reset button.

## We provide many videos!



DSair works with Viessmann 2691



Please scan left QR code. You can see our videos.

