Portable external monitors

Ondřej Caletka | 3rd June 2020 | NCC Sevens

Motivation

- working from kitchen table, bedroom, attic,…

- no room for a standard monitor

- no bulky thing you need to take care of when moving

- you want to see both shared screen and gallery view in Zoom

Limitations

- second screen of similar size rather than a big screen

- requires power rather than providing power

  - can be powered by the computer in most cases

- not a wide portfolio to choose from

- screen sizes 13" – 16"

- no ultra high definition resolutions nor 16:10 aspect ratios

  - most common is 16:9 1920x1080 IPS

Connection

- DisplayPort alternate mode of USB Type-C
  - provides power to the monitor as well
  - requires computer with Thunderbolt 3 or USB-C with DP Alt mode support

- Micro-HDMI input
  - for computers without Type-C connectors
  - requires separate USB power cable or a battery inside monitor

- DisplayLink video over USB
  - software based solution, requires driver, high CPU load, slow screen refresh rate
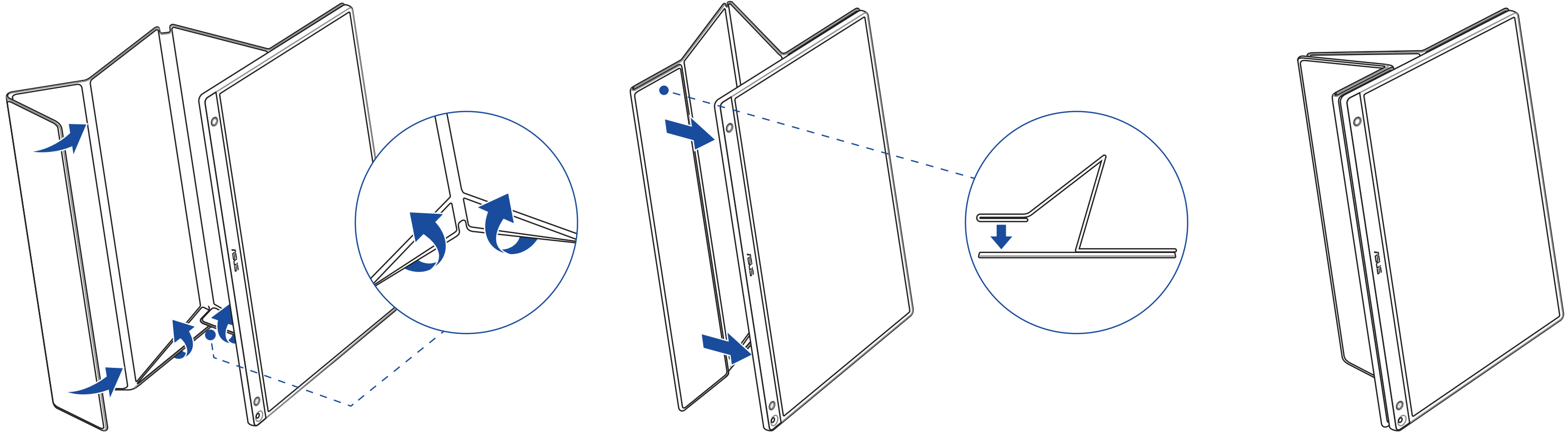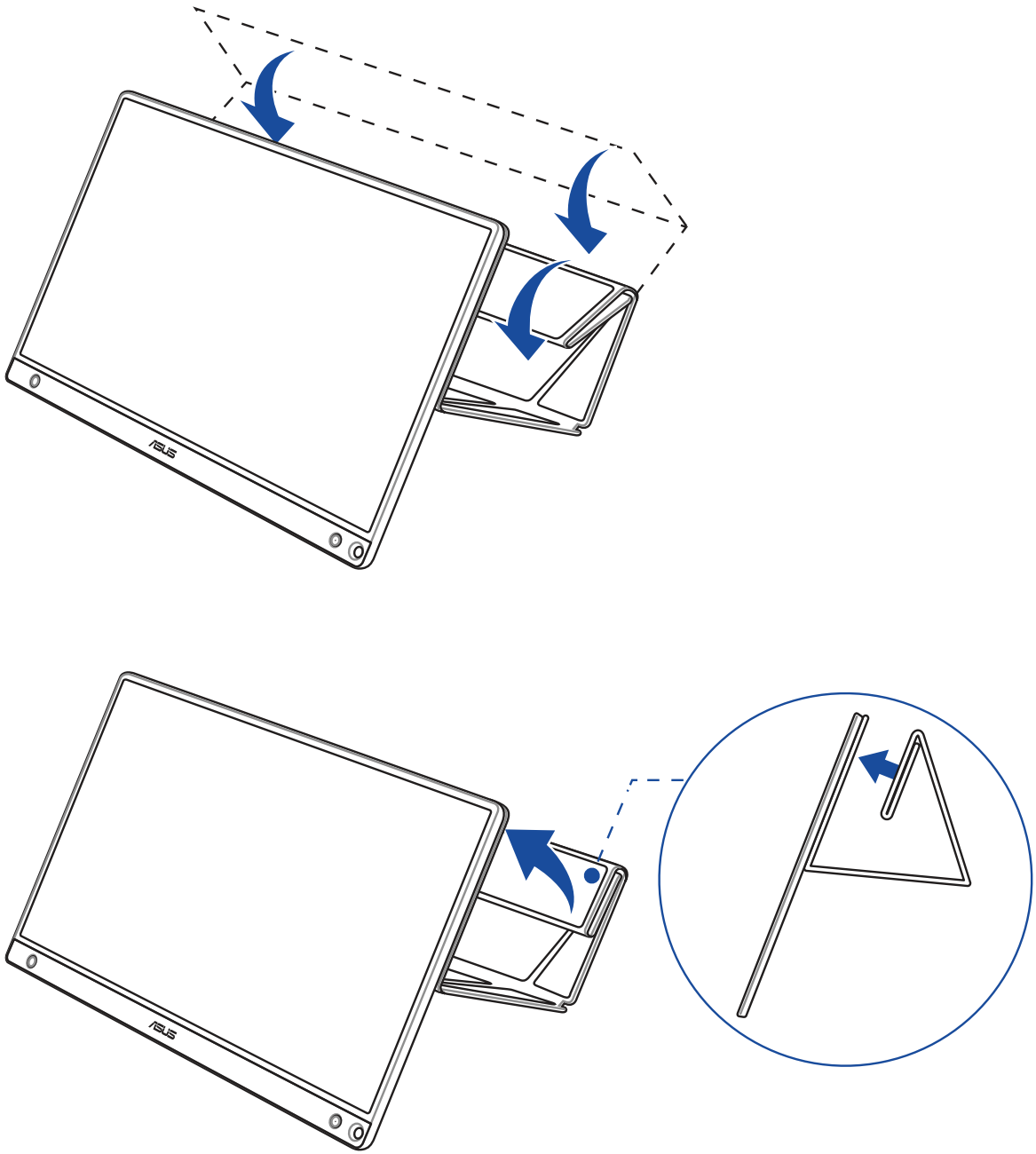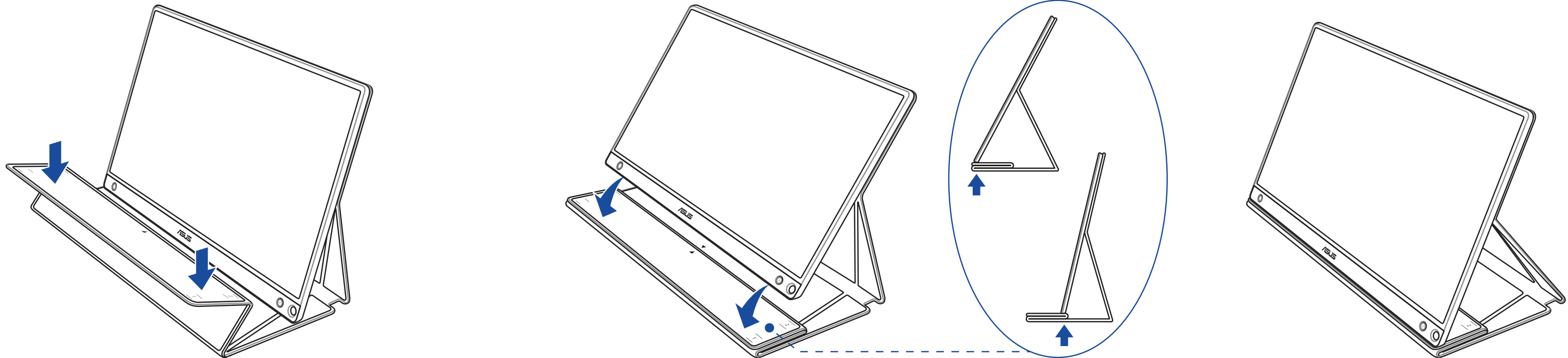 - **avoid this if possible**
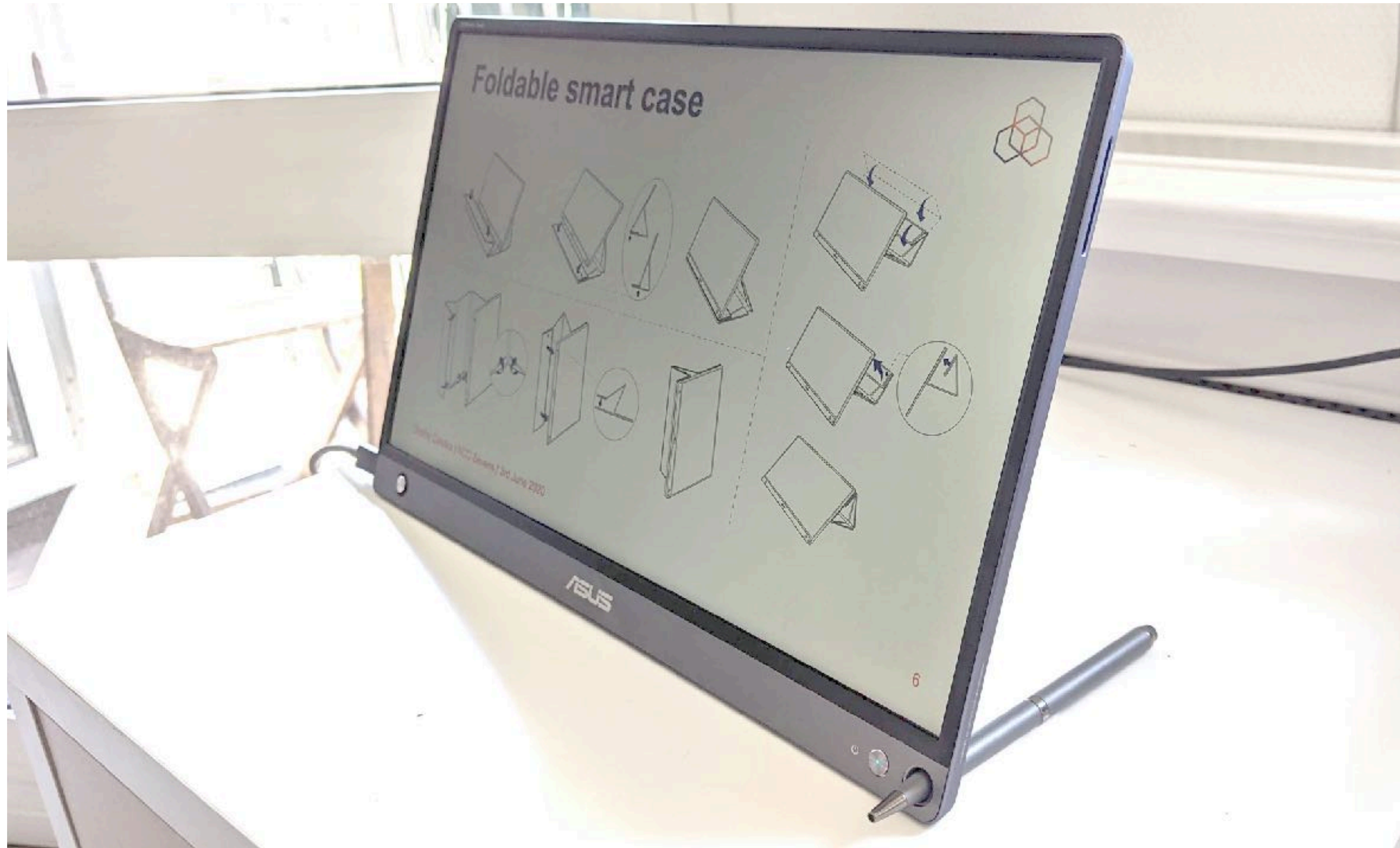
ASUS ZenScreen Touch MB16AMT

- 15,6" IPS Full HD monitor

- internal battery for up to 4 hours

- HDMI, USB Type-C DisplayPort and DisplayLink inputs

- 10-point touch function

- 0.9 kg

- foldable smart cover

- 399 € on CoolBlue.nl

Foldable smart cover

But all you need is a pen

To use Touchscreen on macOS, you need Windows first

Version –

2020/01/16   6.33 MBytes

**Caution: This firmware is only available for the MAC OS version 10.15 **

Tool update method:

1. Connect the MB16AMT to your PC/NB with the USB port (only supported in Win 7/8/8.1/10)

2. Click and run the update tool, a window will show and the tool will start updating automatically without any other operation.

3. The update is complete when the program automatically closes.

Conclusion

- better workplace if standard monitor is not for you

- avoid using DisplayLink, always go for HDMI or DisplayPort (over USB Type-C)

- the battery is unnecessary for home office use

- no need for touchscreen either

Questions ?

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