

# Technical Requirements

## Requirements for Symphony Classroom™

The following are recommendations for an optimal experience with Symphony Classroom™.

### Unit placement

- Mount on a wall\*
- Mount on a display cart\*
- Place on a tabletop
- Stand mount

*\*Unit mounts upside down when attached to a wall, large format display or interactive white board*

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### Ports / Cables required

- Access to School Display's HDMI input port.
- Access to Teacher device's HDMI output port.
- HDMI cables to connect different input devices and Classroom display to Symphony Classroom™.

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### HDMI Input devices supported (via Symphony Classroom™'s HDMI Input ports)

- Teacher's Computer.
- Document Camera (with HDMI port).
- ScreenBeam or AirTame casting devices.

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### Whitelist URLs in your school system to allow Symphony Classroom™ to perform best

- <https://merlyn.org>
- <https://business.updatefactory.io>
- <https://www.loggly.com/>
- [xioresearch.com](https://xioresearch.com)
- [ngrok.io](https://ngrok.io) (for enabling support mode)
- [global.stun.twilio.com](https://global.stun.twilio.com) (on port 3478)
- [ice.xioresearch.com](https://ice.xioresearch.com) (on port 3478)

*Ensure the Merlyn Mind Chrome Extension is not blocked or filtered*

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### Minimum Network Requirements

- 10 mbps is the functional minimum. At least 50 - 100 mbps per unit is preferred, specifically for wireless casting.
- Prefer to have both Symphony Classroom™ unit and Teacher's device on the same school network.