

AC01: Box Color Swapper

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Features

- Safety features: Dry fire proof and checks if dyes are present
- No idle hoppercart
- Fully hopperlocked
- Small and compact

Applications

- Recoloring shulker boxes before sending them to storage

General Description

The AC01 Box Color Swapper is a device that recolors shulker boxes using color dyes and a crafter. The device's item to color map is set using the built-in encoder. The device is designed to be safe, with features that prevent dry firing and ensure that the dyes are present. Without the necessary dyes, the device will not recolor the box. See the corresponding [explanation video on Youtube](#). Inspired by Obi's encoder design.

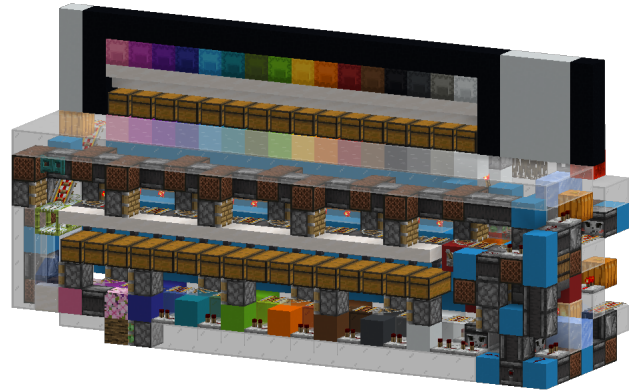


Figure 1: Box Color Swapper

Device Specifications

Table 1: Inputs

Name	Range	Description
Box input	Box	To be recolored shulker box containing items. Barrel input.
Dye input	Item	Dye items to recolor the box. 16 variants.

Table 2: Outputs

Name	Range	Description
Colored box	Box	Recolored shulker box with the same items as input. Waterstream output.

Table 3: Device Specifications

Parameter	Min.	Typ.	Max.	Unit	Conditions
Throughput	-	125	-	gt	Normal Usage
Latency	-	120	-	gt	From input to crafter activation.
MC Version	1.21	1.21.4	-	MCV	Latest version at time of writing: 1.21.4
Dimensions	23 x 12 x 7			Blocks	

Testing Data

Table 4: Executed Tests

Test	Result
Throughput test	Device was able to correctly recolor boxes with multiple boxes input simultaneously

Download Information

Table 5: Download Information

Identifier	MC	File	Description
AC01	1.21	AC01_Box_Color_Swapper.litematic	Schematic of device.