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## Introductions on External Sync Functions for L640 Thermal Imaging Modules

- Brief introductions on external sync mode :

| Sync Mode                  | Module Working Mode                                                                                                                                           | EXT_SYNC Status | Frequency             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|
| Self-Sync<br>0x00          | Module self-sync                                                                                                                                              | High resistance | 10-50Hz, configurable |
| External Sync<br>0x02      | External sync for module receiving                                                                                                                            | Input           | 10-50Hz               |
| Self-Adaptive Mode<br>0x03 | The module will perform self-sync if no external sync signal is input;<br>The module will work according to external sync pulse if external signals are input | Input           | 10-50Hz               |

The module self-sync means the module will operate continuously and output image at the set frequency without being affected by external devices;

The external sync for module receiving means the module starts operating and outputs a frame of image only after receiving an external pulse signal (detecting the rising edge of the external sync signal as the trigger edge), and then waits for the next pulse signal.

- The related commands are as follows:

Read external sync mode and frequency:

Send: AA 05 01 A3 00 01 54 EB AA

Return: 55 05 A3 33 **00 32** 62 EB AA (Mode: 00; Frequency 0x32)

Set external sync mode and frequency:

Send: AA 06 01 A3 01 **00 32** 87 EB AA (Mode: 00; Frequency 0x32)

Return: 55 04 A3 33 01 30 EB AA