

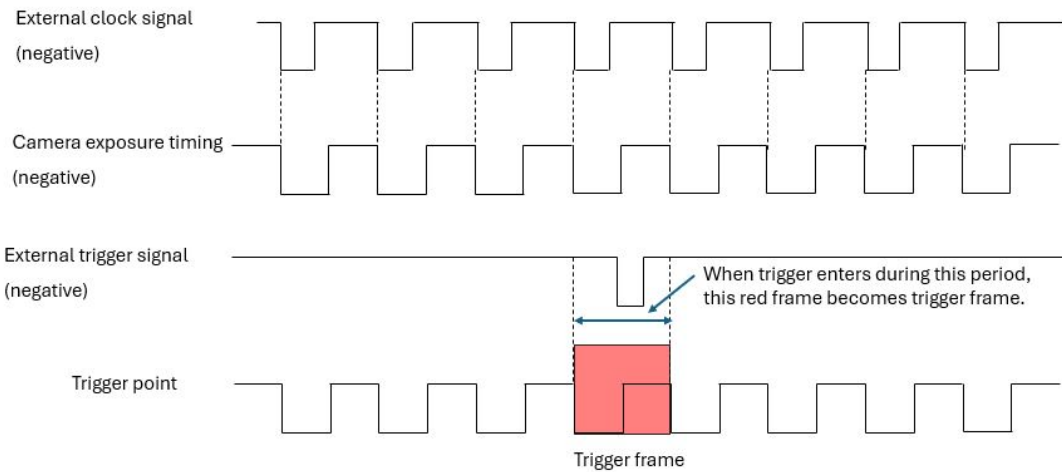
ACS , GO and HX series have the external clock synchronization shooting function, EST synchronization. It starts exposure in synchronization with an external clock.

Crank angle signals from a rotary encoder mounted on a high-speed rotating object or engine, or pulse signals generated by an external pulse generator can be input to camera and it enable external clock-synchronization shooting.

When performing external clock synchronization shooting, Trigger reset function cannot be used. And frame rate must be set to higher than the external clock frequency.

External Synchronous Shooting (ACS / GO GXnative)

External synchronous shooting (EST) function

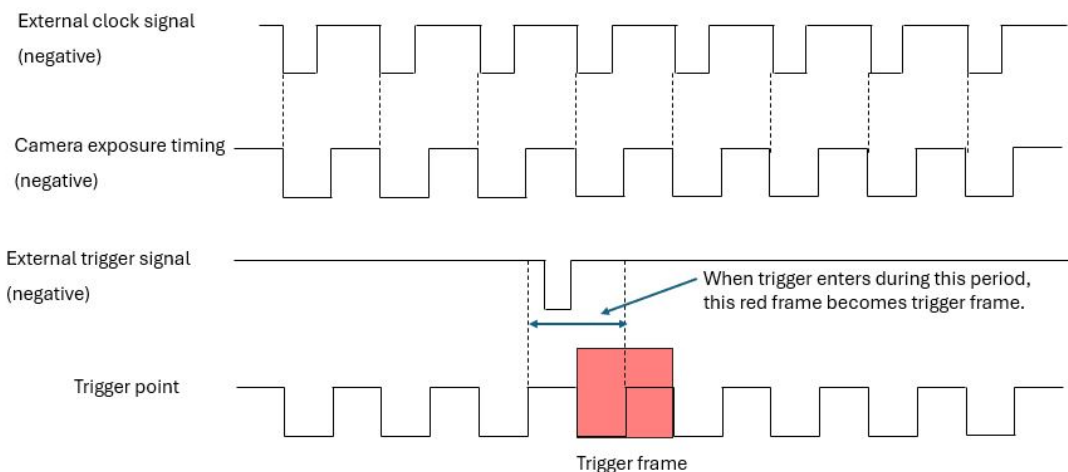


※ Please note, followings are the necessary parameter setting for EST
 The frequency of EST signal \leq maximum frame rate (frames/sec) for the frame size set
 The frequency of EST signal \leq 1/shutter speed (Hz)

ACS, GO series camera
 GX native (Reference is start of exposure)

External Synchronous Shooting (Others)

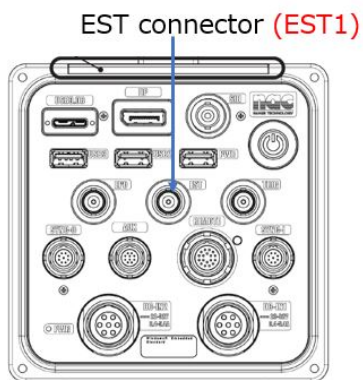
External synchronous shooting (EST) function



※ Please note, followings are the necessary parameter setting for EST
 The frequency of EST signal \leq maximum frame rate (frames/sec) for the frame size set
 The frequency of EST signal \leq 1/shutter speed (Hz)

HX, GX, Q series camera

External clock synchronization (EST synchronization) shooting can be performed by inputting a 5V TTL signal (polarity selectable) to the EST connector of camera and setting EST mode on MLink.



Trigger Timing | Input Signal Settings | Output Signal Settings | Special Recording | Sensor Se

← Special Recording

Frame Synchronization	No Sync	IRIG / M-HUB Sync	GX-HUB Sync
	EST Sync	A-EST Sync	Trigger Reset

Exposure Interval is Synchronized to EST Pulse.

Camera Time	Internal Camera Time	GX-HUB Time	IRIG / M-HUB Time
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EST Input (Synchronization Signal) **EST1** EST2

Set EST2 Filter as the same value as EST1 **OFF** **ON**

EST1 **Nega** **Posi**

EST2 **Nega** **Posi**

EST1 Filter 0.0 [us]

EST2 Filter 0.0 [us]

When EST recording, update live image sync with EST signal(EST VIEW sync) **OFF(Internal)** **ON(EST/A-EST)**

Polarity selectable

Click on update live image sync with EST signal