a laser irradiating apparatus is provided which can easily control the location and movement at a high speed along the major axis of a band-like irradiation area. The rotary polygonal mirror (2) is rotated at a uniform speed. When receiving the rotation phase data (Q), the timing control circuit (8) releases a trigger signal (G) at the timing which is changed within a given range. The laser oscillator (1) emits a laser beam (B1) in response to the trigger signal (G). Since the rotary polygonal mirror (2) is rotated through a full turn during the length of time which is equal to a multiplication of the average interval between emissions of the laser beam (B1) of the pulsed form by the number of the mirrors, its action can easily be implemented. The emission of the pulsed form of the laser beam (B1) from the laser oscillator (1) is timed as shorter than the average interval and its implementation can be easy because of no more moving parts. Accordingly, the band-like irradiation area (4) of the laser beam can easily be shifted at a high speed along the major axis within its given range.