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Two sets of Thomson scattering systems for measuring T_e and n_e profiles in main plasma and x-point region of HL-2M tokamak are developed recently. One laser beam passes through the main plasma in the tangential direction on the equatorial plane with a beam dump installed in-vessel in low field side. Scattered photons in the central region and edge region are collected by two different ports on the middle plane. Another laser beam passes aslant through the x-point region with another beam dump embedded into the target plates of the lower divertor, and scattered photons are collected by a port located lower the middle plane. (Chunhua LIU *et al.*, Plasma and Fusion Research, Vol. 15, 2402045 (2020) <http://www.jspf.or.jp/>)