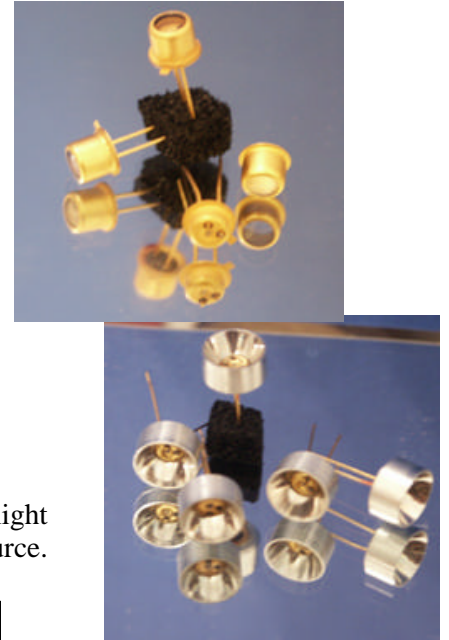
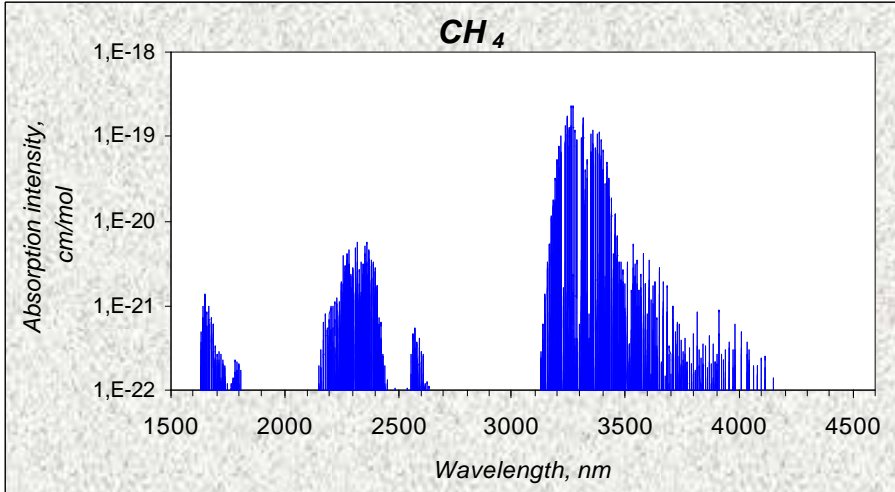
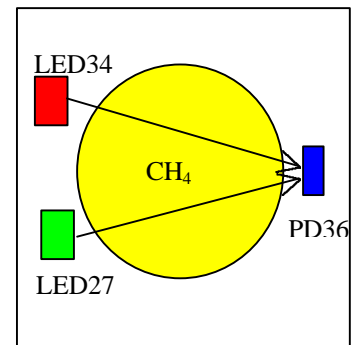
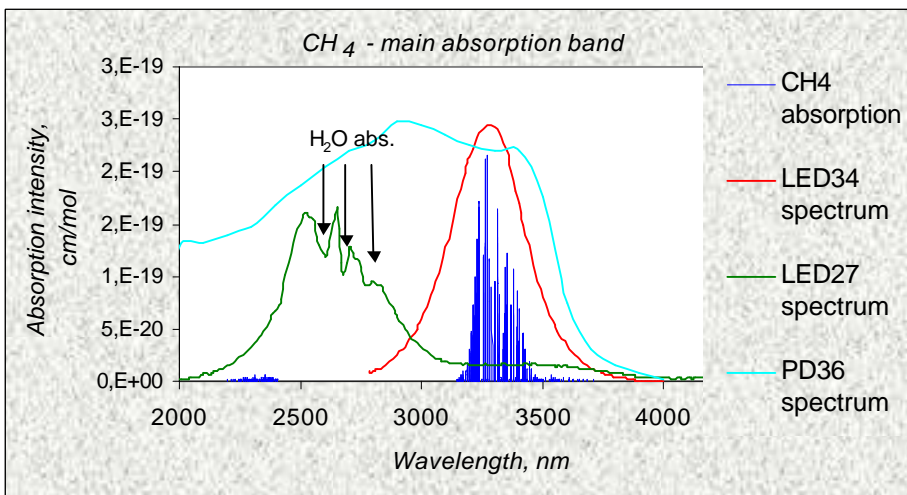


## Light Emitting Diodes and Detectors for CH<sub>4</sub> sensors

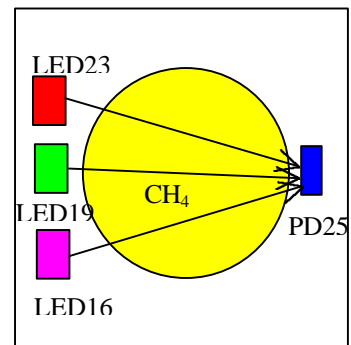
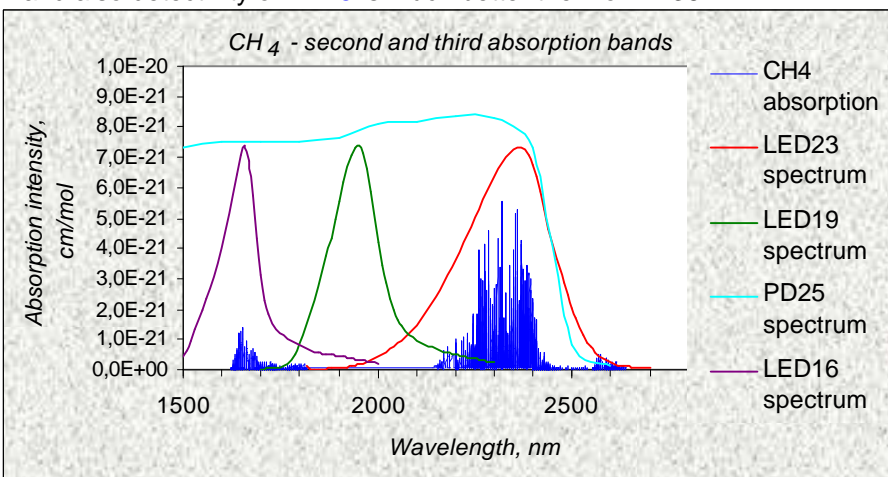
Methane has main absorption band in the range 3200-3400 nm. Other not so strong absorption bands that can be used for measuring are placed around 2300 nm and 1650 nm.



For main absorption band we recommend using of our model **LED34** as a light source in the measuring channel and **LED27** or **LED29** as a reference light source. Photodiode **PD36** can be used as a detector.



Second and third absorption bands near 2350 nm and 1650 nm (or one of them) can be also used. This bands is weaker then main one but optical power of **LED23**, **LED19** and **LED16** is much higher then power of LED34 and LED27 and also detectivity of **PD25** is much better then for PD36.



All Light Emitting Diodes and Photodiodes can be mounted in standard package TO-18, in TO-18 with parabolic reflector (PR) or in 9 mm package TO-5 with microcooler (TEC) and termistor inside. For saving your time at the first stage of development we offer LED Drivers and Preamplifiers.