

ABSTRACT

The present application relates to a method and apparatus for wavelength control in an optical communication system, and a coherent optical communication apparatus. The method comprises: setting an initial emission wavelength emitted by an emitting-end light source in an optical communication system; controlling a local oscillator light source at a receiving end in the optical communication system to emit a local oscillator wavelength; controlling a receiving end to receive the wavelength emitted by the emitting-end light source; and adjusting the wavelength emitted by the local oscillator light source in real time, such that the wavelength emitted by the local oscillator light source is consistent with the wavelength received by the receiving end. By using the method, the use of additional elements can be reduced, such that the present disclosure has a small size, and can realize a high integration level, thus reducing the cost.

Fig. 1