A laser distribution system for medicine

Masane Suzuki
Motonori Kanaya
Hiroshi Shibamoto

FUJI PHOTO OPTICAL CO., LTD.

Many medical equipments with lasers such as CO2, YAG, Ar and so on have found practical applications in various fields. But each laser equipment is developed for use in either field of surgery, internal medicine, ophthalmology, plastic surgery, or gynecology, namely not for universal use.

Therefore, hospitals who buy different kinds of laser equipments will have the following problems:
1. Each kind of laser equipment is expensive and installment of many kinds of laser equipment need much investment.
2. On the contrary, the rate of operation of laser equipments in each section is low.
3. It is difficult to employ and educate operators for many kinds of laser equipments. There are also some problems in respect of safety with operators when they are not well trained.

Owing to these problems, hospitals sometimes hesitate to purchase laser equipments. Even if one kind is installed, the application is limited. Above problems prevent the broad application of laser equipments in medical fields.

In order to solve above problems and for easier access to installment in hospitals, we propose "the hospital laser system" for centralized control of various laser equipments which can be for common use in various sections in the hospital.