

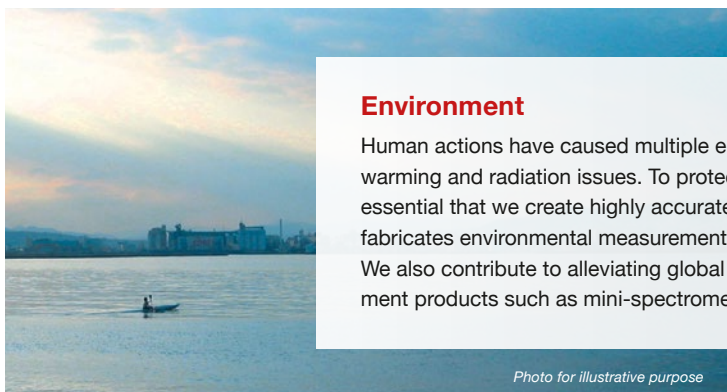
from everyday
pport



Daily Life

Highly sophisticated devices are making their way into close-at-hand items in our daily lives such as constantly evolving wearable communication terminals, household robots in the form of automatic vacuum cleaners, and other gadgets. Hamamatsu Photonics photodetector and light emitter devices are expanding into ever widening areas encompassing our daily lives. Our optical devices are also being applied to the automotive field through photonics technology as distance measurement devices for automatic brake control and light level sensors that automatically control air conditioners and headlights, and so on.

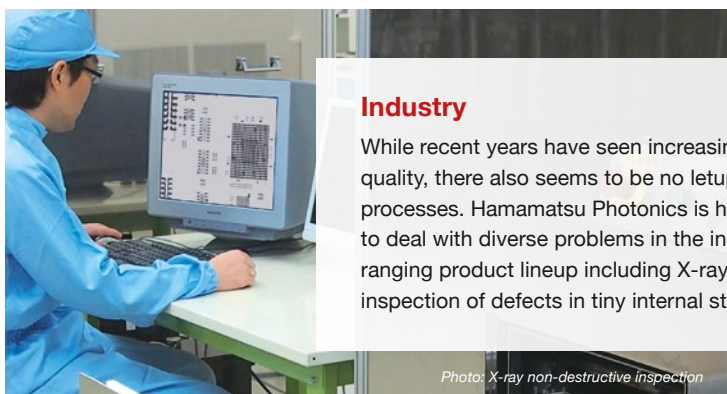
Photo for illustrative purpose



Environment

Human actions have caused multiple environmental problems such as pollution of air and water quality, global warming and radiation issues. To protect our world from these problems and achieve a sustainable society, it is essential that we create highly accurate optical measurement techniques. Hamamatsu Photonics designs and fabricates environmental measurement devices that capture accurate information on air, water quality and soil. We also contribute to alleviating global environmental problems by offering various types of optical measurement products such as mini-spectrometers and module products specifically designed for detecting radiation.

Photo for illustrative purpose



Industry

While recent years have seen increasingly tougher demands for food product safety and industrial product quality, there also seems to be no letup in the pace of tech advances to streamline and speed up production processes. Hamamatsu Photonics is helping to refine and streamline manufacturing and inspection processes to deal with diverse problems in the industrial field. Hamamatsu Photonics does this by offering a wide-ranging product lineup including X-ray sources and detectors capable of non-contact and non-destructive inspection of defects in tiny internal structures.

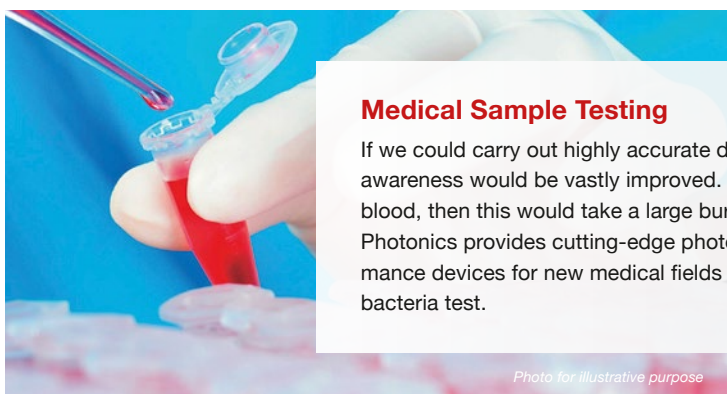
Photo: X-ray non-destructive inspection



Medical Imaging

No matter how healthy you are, you cannot reduce the future risk of disease to zero. Early detection of disease by regular health checkups is very important. Hamamatsu Photonics manufactures high-performance devices optimized for medical use such as PET (positron emission tomography), mammography and X-ray CT. Our devices currently play an important role in medical examinations throughout the world by detecting diseases including cancer at their early stages.

Photo: PET/CT scanner



Medical Sample Testing

If we could carry out highly accurate daily health tests at home, then daily health management and health awareness would be vastly improved. If we could obtain detailed test results from just a small amount of blood, then this would take a large burden off the person being tested. To make them a reality Hamamatsu Photonics provides cutting-edge photonics technology for medical use in the form of compact, high-performance devices for new medical fields that include blood tests, biochemical tests, immunological tests, and bacteria test.

Photo for illustrative purpose