

Examples of Intellectual Property Activities in Specific Businesses

[Professional Print] Konica Minolta launched the “AccurioPress C14000” series as its first heavy production printer (HPP) and the flagship model of color digital printing systems^{*4}.

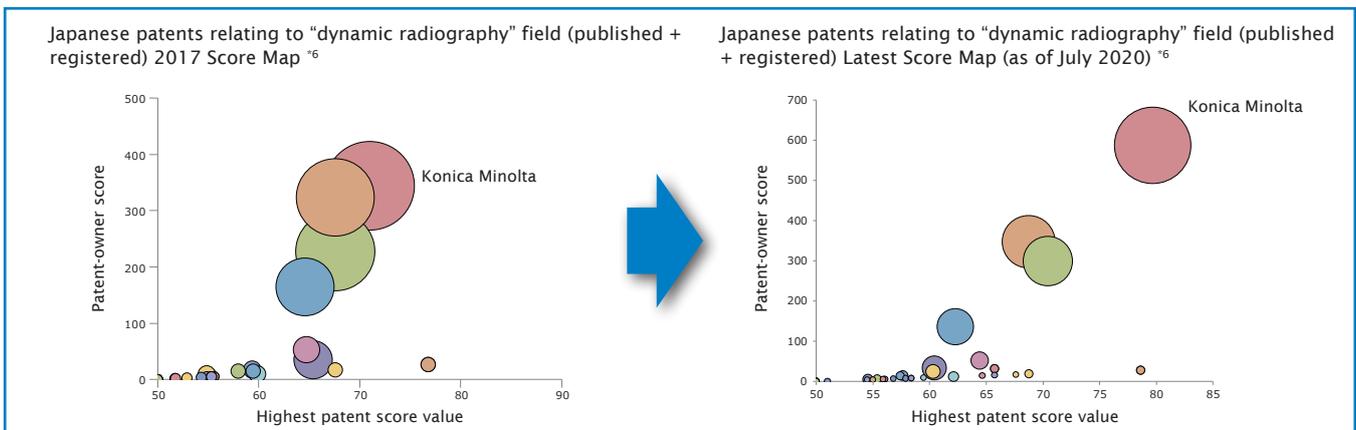
Featuring state-of-the-art technologies such as “inline media sensor system” that uses internal sensor and AI for paper setting to automatically detect paper thickness and type, and “inline trimmer system” (optional unit) that sends printed sheets directly for multiple cutting processes including four-edge trimming, business card and postcard cutting, “AccurioPress C14000” series supports automation of printing processes and offers customers in the printing business added value in the form of labor saving and skill-less operation. In order to protect Konica Minolta’s proprietary technologies applied to realize the value propositions such as those described above, the Development Division and Intellectual Property Division have been working together, from early stages of development, to formulate patent application policy and build patent portfolio strategically. Through these efforts, we have constructed a solid network of patent application around a number of our proprietary technologies including the automatic media recognition technology applied in inline media sensors that uses AI to detect paper profile such as thickness and type, and the trimming technology applied in inline trimmers for high speed and high-precision cutting.



AccurioPress C14000

Inline Media Sensor System

[Healthcare (Dynamic Digital Radiography)] Committed to contributing to the improvement of diagnosis accuracy using X-ray motion images, since late 2018 Konica Minolta has been promoting Dynamic Digital Radiography System^{*5}, which is a system that combines “KINOSIS,” an X-ray motion image analysis workstation, and “AeroDR fine,” a portable-type digital X-ray imaging equipment. With the Dynamic Digital Radiography System, a series of individual images can be continuously displayed and converted to motion images using continuous pulsed x-ray emission. For example, in dynamic chest radiography, actual “movement” can be visualized and quantified. At Konica Minolta, we are working on strengthening our patent portfolio by taking a customer-oriented approach in identifying value drivers and strategically implementing measures to establish patent rights. These include acting quickly to secure patent rights on key technologies. We have also not only increased the number of patents but, as shown in the chart below, also continuously enhanced the quality of patents in this field, which represents the value of the intellectual property, to steadily build up patent portfolio for protecting proprietary technologies that embody our value proposition.



*4 For information on AccurioPress C14000, visit our website:

https://www.konicaminolta.jp/business/products/graphic/ondemand_print/accurio_press/index.html

*5 Shimadzu Corporation’s RADspeed Pro, a diagnostic radiography system, is used for general x-ray imaging.

For information on DR products, visit our website:

<https://www.konicaminolta.jp/healthcare/products/dr/index.html>

*6 Produced by Konica Minolta using Patent Result Co., Ltd.’s “BizCruncher.” The size of the circles indicates the number of patents of each company. The horizontal axis indicates the score of patents with the highest evaluation; the vertical axis indicates the overall score of patent portfolio.