


# Citizen Products and Technology in Use Here, There and Everywhere

Citizen's wide ranging business activities make it an integral part of society. Citizen products and services play a crucial role behind the scenes of our day-to-day lives.

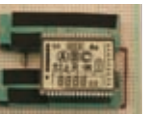
**24 Publication**  
Publishing technical books chiefly in fine arts and history and running the book section in the museum shop of the Tokyo National Museum and elsewhere




**23 Zirconia ceramic parts for optical communicator (Optical Network)**  
Used in connectors for fiber optic cables




**22 Highly reliable Liquid Crystal Display (Gas meters)**  
Durable specifications even at high temperature and humidity



**21 Electronic dictionary**  
Used to store Japanese and bilingual Japanese-English dictionary data and medical, health-related and general information



**20 Digital thermometer**  
Predicted temperature measured in about 60 seconds. Backlight enabling reading in dark locations



**Digital blood pressure monitor**  
Easy to use health management support tools with clear displays



**19 Leisure Facilities**  
Providing multipurpose entertainment venues, from ice rinks to culture schools



**18 Submount (Optical Disk Drives)**  
A ceramic substrate with high radiation performance mounted with laser and diodes for optical disks




**17 Quartz Crystal Devices (Mobile Phones)**  
Used to produce regular signals in time with actions when on standby




**1 Watch**  
Eco-Drive watches: the first watches to be granted Eco-Mark certification in 1996



**2 Quartz Crystal Devices (Home Electronics)**  
Reference signals used to ensure that electronic equipment is functioning correctly




**3 LED (Lighting)**  
Low-energy consumption, long life, mercury free, environmentally friendly lighting



**4 LCOS\* (Digital still camera)**  
Incorporated in electronic view finders that are more compact and slimmer than optical versions



**PN liquid crystal (Digital still camera)**  
Liquid crystal used to display focus area within viewfinders



**Compact switch (Digital still camera)**  
Used for shutter switches, etc.



**5 Marriage Ring**  
Scratch resistant rings that keep their shape



**6 Sports timer**  
High visibility magnetic reversal displays, essential during marathon broadcasts



**7 Automotive Components**  
Manufacturing components for use in ABS brakes, airbags, engines, etc.



**LED backlight unit (Car navigation)**  
Used in the development of slimmer, energy saving car navigation systems




**8 Electronic View Finders (Camcorders for professional use)**  
High resolution viewfinders capable of catching even fast movements during sporting events



**9 Time control system**  
Clocks fitted to buildings or other exterior surfaces, often cherished as symbols representing the local area




**10 LCOS\* (Projector)**  
Used in video engines due to high definition and picture quality



**11 Combustion Pressure Sensor (Ship)**  
Fitted inside engine cylinders to measure combustion pressure



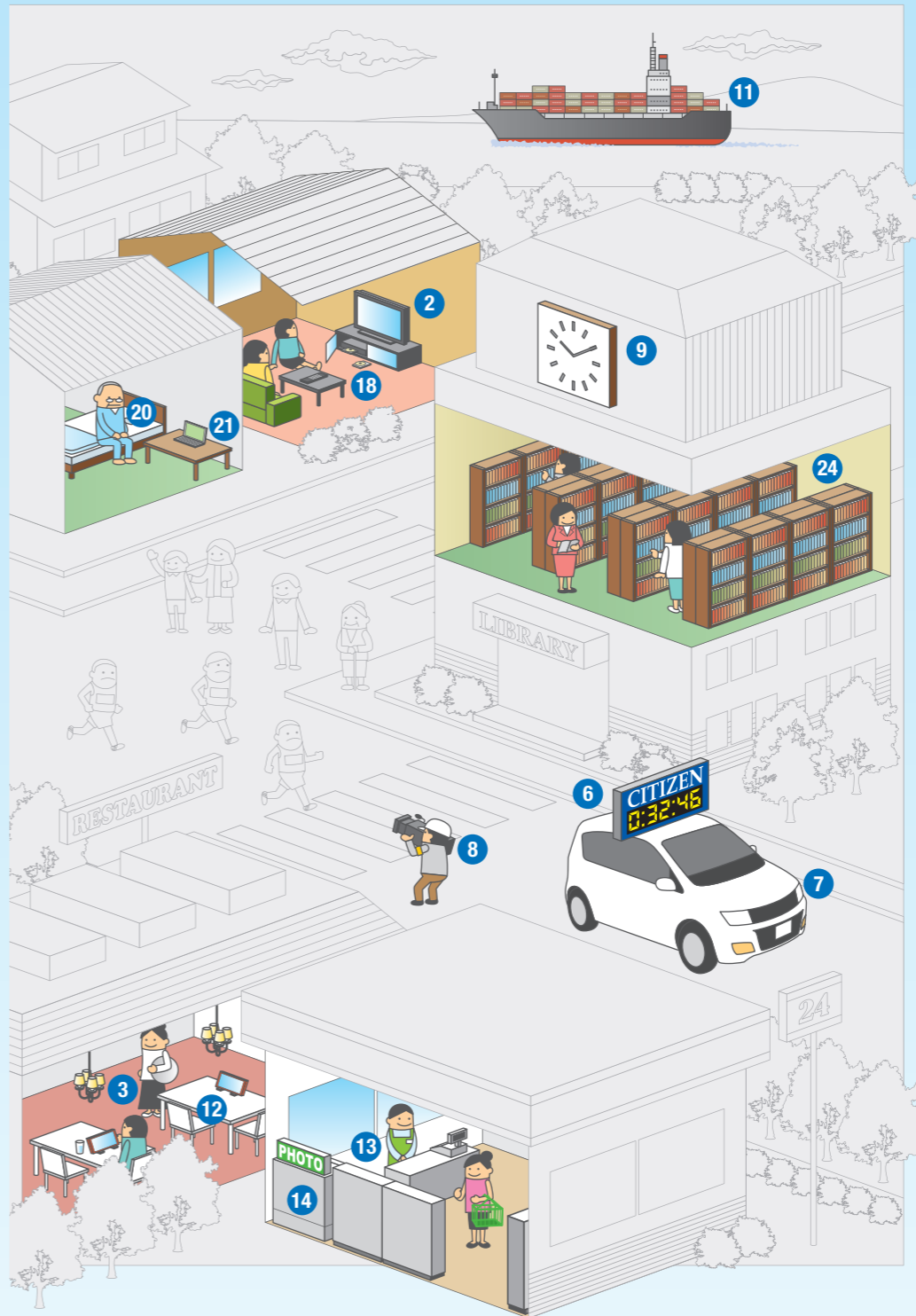
**12 Self-service ordering system**  
Enables restaurant customers to order from menu touch screens at their tables



**13 POS Thermal Printer**  
Used for issuing receipts, tickets, and coupons




**14 Photo Printer**  
Enabling easy photo printing at locations such as supermarkets and photo stores

\* Short for "Liquid Crystal on Silicon," LCOS are LCD panels that use silicon substrates.

**LED (Mobile Phones)**  
Used for key lights, camera flashes and backlights on mobile phones, etc.



**Electronic Paper (Mobile Phones)**  
World's first electronic paper keypad, harnessing the memory capabilities and flexible properties of electronic paper



**Compact switch (Mobile Phones)**  
Used as switches on side surfaces



**16 Digital Pedometer**  
Easy operation for measurement while walking or jogging to help maintain and improve health



**15 NC automatic lathe**  
Machinery used to grind metal to make high-precision components



**Measuring instruments**  
Instruments used to accurately measure small components



**Coreless Motor, Gear Head, Encoders**  
Used in electronic microscopes, radiotherapy equipment, robots, etc.

