

D6T-32L-1A

D6T MEMS Thermal Sensor (32x32)

Product Information

Sensing & Module Application Division



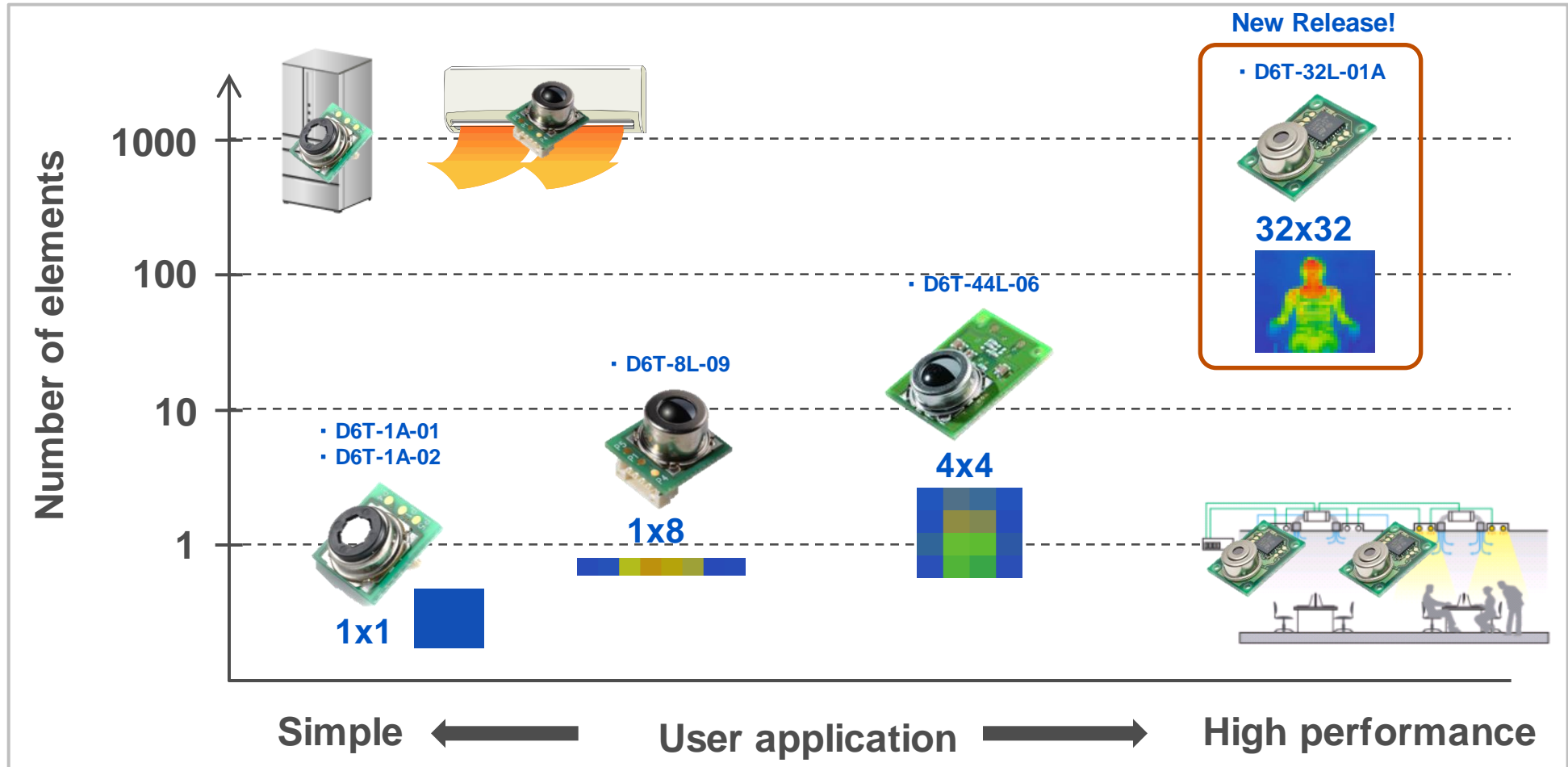
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Agenda





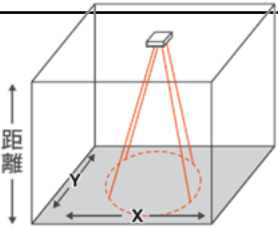
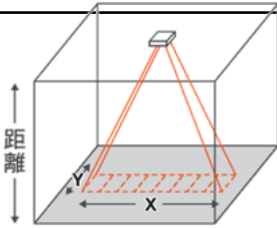
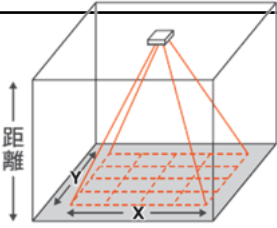
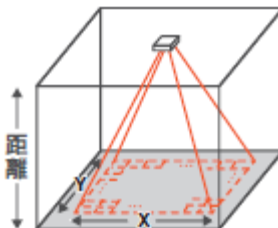



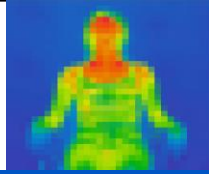
- **Product Outline**
- **New Product main spec**
- **New Product Features & Benefits**
- **Details of target application**

Product Outline

- In addition to 1x1, 1x8, 4x4 thermal sensors, 32x32 thermal sensor added.
- Wide viewing angle (90°x90°), multiple pixels (32x32)



New Product Main Spec

Sensor type		D6T-1A-01	D6T-1A-02	D6T-8L-09/09H	D6T-44L-06/06H	D6T-32L-01A
Appearance						 New!!
Number of elements		1 (1x1)		8 (1x8)	16 (4x4)	1024(32x32)
Size [mm]		(L : W : H) = (12.0 : 11.6 : 9.2)		(L : W : H) = (12.0 : 11.6 : 10.7)	(L : W : H) = (18.0 : 14.0 : 8.8)	(L : W : H) = (18.0 : 14.0 : 9.9)
View Angle	X direction	58.0°	26.5°	54.5°	44.2°	90.0°
	Y direction	58.0°	26.5°	5.5°	45.7°	90.0°
Object temperature Detection range		5~50°C	-40~80°C	09:5~50°C 09H:5~200°C	06:5~50°C 06H:5~200°C	0~200°C
Reference temperature Detection range		5~45°C	-40~80°C	5~45°C	5~45°C	0~80°C
communication		I2C				
Size of measurement area						
Distance 1m	X direction	111 cm	47 cm	103 cm	81 cm	200cm
	Y direction	111 cm	47 cm	10 cm	84 cm	200cm
Image of detection						

New Product Features & Benefits

Features

- **High temperature range (200°C)**
- **Wide viewing angle**
 - 90°x90° viewing angle
- **High resolution**
 - 32x32 pixels (1024 elements)
- **Temperature output**
 - Temperature converted output with an external microcomputer

Benefits

- **Expand target applications**
- **Customer is able to monitor a wider area**
- **Sensor is able to effectively monitor position and movement of people**
- **Customer can intuitively use this sensor**

Details of Target Application

Smart Home & Building

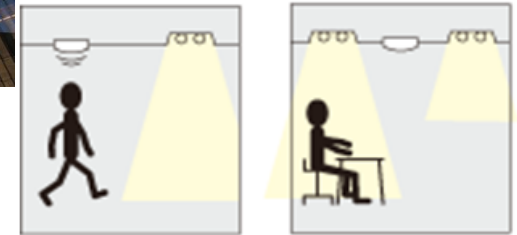
Meeting room human detection



- **Type:** D6T-32L-01A
- **Application:** SHB
- **Function:** Detection of human absence
- **Value:** Visualize the use of meeting room

Smart Home & Building

Lighting/Air Conditioning Control

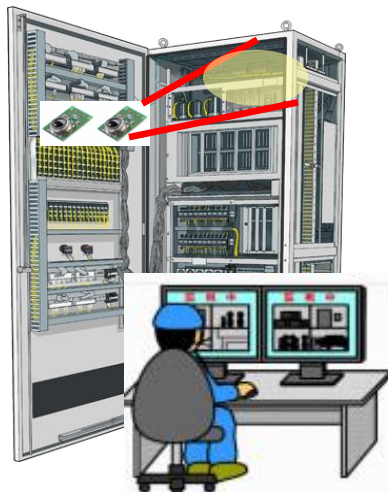


- **Type:** D6T-32L-01A
- **Application:** Lighting and air conditioning control system for indoor use
- **Function:** Detection of human absence
- **Value:** Energy saving

Details of Target Application

Factory Automation

FA Equipment



- P/N: D6T-44L-06H/D6T-8L-09H/D6T-32L-01A
- Application: Control Panel of production line equipment, cubicle, FA equipment
- Function: Abnormal heat detection of inverter, servo, power supply, contactor, terminals inside of control panel boxes
- Customer value: Reduction of maintenance costs, prevention of production line stop/fire



Thank You