Ennostar

Smart Sensing

Smart Sensing-Transmitter

With the rapid advancements in optical sensing technology, consumers can now manage their health more conveniently. Ennostar offers a comprehensive range of products—from full-spectrum chips, packages to modules that include both emitters and receivers. We have diversified design, customized design, and high-quality manufacturing capabilities, our solutions are the top choice for energy-efficient applications. Ennostar can meet the needs of leading brands in sensing and are trusted by our partners.

TOP 3

Top SWIR LED supplier for the **top three** TWS products in the world for technology application TWS

40%

Heart rate and blood oxygen detection chips are integrated into many global brand smartwatches, **with a market share exceeding 40%**

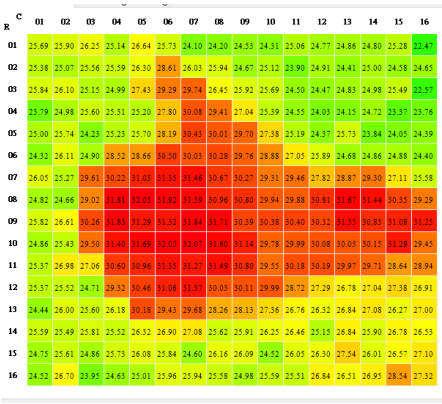
The sensor components are adopted by **major global wearable brands**

TOP 1

Proximity sensor chips for cell phones **rank first** in global market share

- **Heart Rate**
- **Blood Oxygen**
- **Blood Glucose**
- **Moisture**
- **Body Temperature**
- **Ambient Light**

Temperature Sensing



C / R	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
01	25.69	25.90	26.25	25.14	26.64	25.73	24.10	24.20	24.53	24.31	25.06	24.77	24.86	24.80	25.28	22.47
02	25.38	25.07	25.56	25.59	26.30	28.61	26.03	25.94	24.67	25.12	23.90	24.91	24.41	25.00	24.58	24.65
03	25.84	26.10	25.15	24.99	27.43	29.29	29.74	26.45	25.92	25.69	24.50	24.47	24.83	24.98	25.49	22.57
04	23.79	24.98	25.60	25.31	25.20	27.80	30.08	29.41	27.04	25.39	24.55	24.03	24.15	24.72	25.37	23.76
05	25.00	25.74	24.23	25.23	25.70	28.19	30.45	30.01	29.70	27.38	25.19	24.37	25.73	25.84	24.05	24.59
06	24.32	26.11	24.90	28.52	28.66	30.50	30.03	30.28	29.76	28.88	27.05	25.89	24.68	24.86	24.88	24.40
07	26.05	25.27	29.61	30.22	31.03	31.55	31.46	30.67	30.27	29.31	29.46	27.82	28.87	29.30	27.11	25.58
08	24.82	24.66	29.02	31.81	32.05	31.92	31.59	30.96	30.80	29.94	29.88	30.81	31.67	31.44	30.35	29.29
09	25.82	26.61	30.26	31.83	31.29	31.32	31.84	31.71	30.39	30.38	30.40	30.32	31.55	30.85	31.08	31.25
10	24.86	25.43	29.50	31.40	31.69	32.05	32.07	31.60	31.14	29.78	29.99	30.08	30.03	30.15	31.29	29.45
11	25.37	26.98	27.06	30.60	30.96	31.35	31.27	31.49	30.80	29.55	30.18	30.19	29.97	29.71	28.64	28.94
12	25.37	25.52	24.71	29.32	30.46	31.06	31.37	30.03	30.11	29.99	28.72	27.29	26.78	27.04	27.38	26.91
13	24.44	26.00	25.60	26.18	30.18	29.43	29.68	28.26	28.13	27.36	26.76	26.32	26.84	27.08	26.27	27.00
14	25.59	25.49	25.81	25.52	26.32	26.90	27.08	25.62	25.91	26.25	26.46	25.15	26.84	25.90	26.78	26.53
15	24.75	25.61	24.86	25.73	26.08	25.84	24.60	26.16	26.09	24.52	26.05	26.30	27.54	26.01	26.57	27.10
16	24.52	26.70	23.95	24.63	25.01	25.96	25.94	25.58	24.98	25.59	25.51	26.84	26.51	26.95	28.54	27.32

Resolution	16x16
FOV(˚)	72
Temperature Range (℃)	-20 ~ 150
Accuracy (℃)	±2℃
Frame Rate (fps)	1

Market Trends and Potential

- Non-contact measurement with thermopile array.
- MCU integrated for direct temperature data output.
- Flexible FOV development for various applications.

Technical Highlights

- Supports a wide operating temperature range from -20°C to 150°C.
- Delivers high measurement accuracy of up to ±2°C.

Sustainable Development Goals (SDGs)