



# DT524T

## Medical-Grade Integrated LCD System

### Display-Integrated Digital System for Point-of-Care Solutions



The DT Research DT524T medical grade all-in-one system integrates a 24-inch TFT-LCD with an energy-efficient Intel® Core™ i platform in a fanless, slim, bacteria-resistant enclosure. Designed for medical and healthcare applications, this LCD-integrated system provides space-saving solutions for health professionals to monitor, record and retrieve patient information as well as other point-of-care applications. The built-in Wi-Fi and Bluetooth connection as well as data capture options also make data access efficient and optimizes staff workflow.

#### Features

- Elegant all-in-one, slim, fanless design
- Intel® 10<sup>th</sup> Generation Core™ i processor
- 24" Full-HD LED-backlight screen, capacitive touch and 4K screen options
- EN60601-1 certified
- IP65 rated front panel with IPX2 rated enclosure
- Aluminum alloy enclosure with anti-microbial coating
- VESA-mountable for flexibility in mounting and deployment
- Optional integrated dual-band RFID reader with single-sign-on authentication



#### Applications

- Hospital
- Healthcare Center
- Retirement community
- Laboratory

## Specifications

| System                           |   |
|----------------------------------|---|
| CPU                              | Intel® Core™ i5-10500T, 6-core; Intel® Core™ i7-10700T, 8-core<br>Intel® Core™ i9-10900T, 10-core |
| RAM                              | 8GB to 16GB   |
| Storage                          | 256 GB to 2TB Flash   |
| Operating System                 | Microsoft® Windows® 10 IoT Enterprise   |
| Display                          | 23.8" TFT-LCD, capacitive touch   |
| Display Resolution               | 1920 x 1080; 3840 x 2160 (optional)   |
| Network Interface                | WLAN 6 802.11 AX, 2.4GHz/ 5GHz dual band  |
| Bluetooth                        | Bluetooth 4.0 LE  |
| Control Button                   | 1 power and 4 programmable buttons  |
| Stereo speaker                   | Built-in speakers   |
| I/O Ports                        |   |
| USB Port                         | USB 3.0 x 4, USB 2.0 x 2  |
| COM Port                         | 3   |
| Audio-out                        | 1   |
| HDMI-out                         | 1   |
| Ethernet                         | RJ45 connector for Ethernet x 2   |
| DC-in                            | 1   |
| Potential Equalization Conductor | 1   |
| Mechanical and Environmental     |   |
| Fan/Fanless                      | Fanless   |
| AC/DC Adapter                    | Input 100-240V AC; Output 19V DC, 6.31A   |
| Enclosure                        | Aluminum alloy, anti-microbial coating  |
| Base or Pedestal                 | Detachable aluminum construction; VESA-compliant mounting   |
| Dimensions (H x W x D)           | 16.9 x 22.3 x 8.3 in/ 431 x 567 x 212 mm (with base stand)  |
|                                  | 13.7 x 22.3 x 1.8 in/ 350 x 567 x 45 mm (without base stand)                                      |
| Weight                           | 23.6 lbs/ 10.7 kg (with base stand)   |
|                                  | 17.6 lbs/ 8 kg (without base stand)   |
| Water Resistance                 | Front panel: IP65<br>Enclosure: IPX2  |
| Regulatory                       | UL60601-1, FCC Part 18 Class B, RoHS compliant  |
| Temperature                      | Operation: 0°C – 40°C; Storage: -20°C – 60°C  |
| Humidity                         | 0% – 90% non-condensing   |
| Major Options                    |   |
| Camera                           | 2 megapixel front camera  |
| NFC/ RFID Reader                 | Integrated dual-band RFID reader, single-sign-on authentication support                           |

\* Specifications subject to change without notice.



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