



## Medical-Grade Integrated LCD Systems

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

The DT Research 500-MD series digital systems integrate 19" to 24" LCD displays respectively with an energy-efficient thin client platform in one slim, mountable, bacteria-resistant enclosure. Designed for medical and healthcare applications, these systems provide space-saving solutions for health professionals to monitor, record and retrieve patient information and other point-of-care applications. With optional IR touch screen, internal wireless communication, magnetic stripe reader and smart card reader, the all-in-one digital systems make data access efficient and optimize staff workflow.

#### • Features

- Elegant all-in-one, slim and space saving design
- Anti-microbial plastic enclosure
- High performance operation with low power consumption
- IR touch screen option
- VESA-mountable for flexibility in mounting and deployment
- Optional 802.11a/b/g/n WLAN adapter
- Optional magnetic stripe reader
- Optional smart card reader
- Comprehensive software for remote monitoring, control, and upgrades

#### • Applications

The DT Research Medical-grade Integrated LCD Systems are ideal for the following environments :

- **Hospital**
- **Retirement community**
- **Healthcare Center**
- **Laboratory**



## • Specifications

|                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                |  |  |  |  |  |  |
| Model                                          | DT519T-MD                                                                         | DT519S-MD                                                                         | DT522T-MD                                                                         | DT522S-MD                                                                          | DT524T-MD                                                                           | DT524S-MD                                                                           |
| System                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| CPU                                            | Intel® Atom™ Dual Core, 1.86GHz                                                   | Intel® Core i3, i5 or i7                                                          | Intel® Atom™ Dual Core, 1.86GHz                                                   | Intel® Core i3, i5 or i7                                                           | Intel® Atom™ Dual Core, 1.86GHz                                                     | Intel® Core i3, i5 or i7                                                            |
| RAM                                            | 4GB                                                                               |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| Storage                                        | 32GB to 256GB flash or 320GB HDD                                                  |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| Operating System                               | Microsoft® Windows® Embedded Standard 7 or Windows® 7 Professional                |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| Display                                        | 19" TFT-LCD                                                                       | 19" TFT-LCD                                                                       | 22" TFT-LCD                                                                       | 22" TFT-LCD                                                                        | 24" TFT-LCD                                                                         | 24" TFT-LCD                                                                         |
| Display Resolution                             | 1280 x 1024                                                                       | 1280 x 1024                                                                       | 1920 x 1080                                                                       | 1920 x 1080                                                                        | 1920 x 1080                                                                         | 1920 x 1080                                                                         |
| Touch Screen                                   | IP65-rated IR touch (optional)                                                    |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| Network Interface                              | Ethernet 10/ 100/ 1000 MB Base-T LAN; 802.11a/b/g/n WLAN (optional)               |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| TPM                                            | TPM 1.2                                                                           | TPM 1.2                                                                           | TPM 1.2                                                                           | TPM 1.2                                                                            | TPM 1.2                                                                             | TPM 1.2                                                                             |
| Control Button                                 | 5 side buttons: power and programmable buttons                                    |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| Stereo speaker                                 | Built-in speakers                                                                 |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| I/O Ports                                      |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| USB Port                                       | 4                                                                                 | 4                                                                                 | 4                                                                                 | 4                                                                                  | 4                                                                                   | 4                                                                                   |
| COM Port                                       | 2                                                                                 | 2                                                                                 | 2                                                                                 | 2                                                                                  | 2                                                                                   | 2                                                                                   |
| Audio-out                                      | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                  | 1                                                                                   | 1                                                                                   |
| Microphone-in                                  | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                  | 1                                                                                   | 1                                                                                   |
| Ethernet                                       | RJ45 connector for Ethernet x 1                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| DC-in                                          | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                  | 1                                                                                   | 1                                                                                   |
| Mechanical and Environmental                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| Fan/Fanless                                    | Fanless                                                                           | Fan                                                                               | Fanless                                                                           | Fan                                                                                | Fanless                                                                             | Fan                                                                                 |
| Default Color                                  | Beige                                                                             | Beige                                                                             | Beige                                                                             | Beige                                                                              | Beige                                                                               | Beige                                                                               |
| AC/DC Adapter                                  | Input: 100 – 240V AC;<br>Output: 18.5V DC, 3.5A                                   | Input: 100-240V AC;<br>Output: 19V, 6.31A                                         | Input: 100 – 240V AC;<br>Output: 18.5V DC, 3.5A                                   | Input: 100-240V AC;<br>Output: 19V, 6.31A                                          | Input: 100 – 240V AC;<br>Output: 18.5V DC, 3.5A                                     | Input: 100-240V AC;<br>Output: 19V, 6.31A                                           |
| Enclosure                                      | ABS + PC plastics, anti-microbial plastics                                        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| Base or Pedestal                               | Detachable aluminum construction; VESA-compliant mounting                         |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| Dimensions (H x W x D)<br>(With base stand)    | 16.3 x 16.5 x 6.7 in/<br>415 x 420 x 171 mm                                       | 16.3 x 16.5 x 6.7 in/<br>415 x 420 x 171 mm                                       | 15.8 x 20.8 x 6.7 in/<br>420 x 528 x 171 mm                                       | 15.8 x 20.8 x 6.7 in/<br>420 x 528 x 171 mm                                        | 14.6 x 22.9 x 6.7 in/<br>370 x 583 x 171 mm                                         | 14.6 x 22.9 x 6.7 in/<br>370 x 583 x 171 mm                                         |
| Dimensions (H x W x D)<br>(Without base stand) | 13.7 x 16.5 x 2.8 in/<br>346 x 420 x 70 mm                                        | 13.7 x 16.5 x 2.8 in/<br>346 x 420 x 70 mm                                        | 12.6 x 20.8 x 2.8 in/<br>319 x 528 x 70 mm                                        | 12.6 x 20.8 x 2.8 in/<br>319 x 528 x 70 mm                                         | 13.8 x 22.9 x 2.8 in/<br>350 x 583 x 70 mm                                          | 13.8 x 22.9 x 2.8 in/<br>350 x 583 x 70 mm                                          |
| Weight (With base stand)                       | 16.5 lbs/ 7.5 kg                                                                  | 17.8 lbs/ 8.1 kg                                                                  | 21.2 lbs/ 9.6 kg                                                                  | 22.1 lbs/ 10.2 kg                                                                  | 24.6 lbs/ 11.1 kg                                                                   | 26.8 lbs/ 12.3 kg                                                                   |
| Weight (Without base stand)                    | 12.8 lbs/ 5.8 kg                                                                  | 13.4 lbs/ 6.1 kg                                                                  | 16.8 lbs/ 7.6 kg                                                                  | 18.1 lbs/ 8.2 kg                                                                   | 20.2 lbs/ 9.1 kg                                                                    | 22.8 lbs/ 10.3 kg                                                                   |
| Water & Dust Resistance                        | IP65 sealed front                                                                 |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| Regulatory                                     | FCC Class B, CE, C-Tick,<br>RoHS compliant                                        | UL60601-1, EN60601-1,<br>FCC Class B, CE, C-Tick,<br>RoHS compliant               | FCC Class B, CE, C-Tick,<br>RoHS compliant                                        | UL60601-1, EN60601-1,<br>FCC Class B, CE, C-Tick,<br>RoHS compliant                | FCC Class B, CE, C-Tick,<br>RoHS compliant                                          | UL60601-1, FCC Class B,<br>CE, C-Tick, RoHS compliant                               |
| Temperature                                    | Operation: 5°C – 35°C; Storage: -20°C – 60°C                                      |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| Humidity                                       | 0% – 90% non-condensing                                                           |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| Data Capture Option                            |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| MSR                                            | Triple track readers (ISO TK1, 2 & 3), bi-directional                             |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| Smart Card Reader                              | N/A                                                                               | Reads ISO 7816 T=0, T=1<br>smart card, 1.8/ 3/ 5V<br>smart card                   | N/A                                                                               | Reads ISO 7816 T=0, T=1<br>smart card, 1.8/ 3/ 5V<br>smart card                    | N/A                                                                                 | Reads ISO 7816 T=0, T=1<br>smart card, 1.8/ 3/ 5V<br>smart card                     |

\* Specifications subject to change without notice.

