# SPEC SHEET

**MTC-AVON24**

The Avon24 is MTCS' leading design mobile telecare cart. Built in the USA with medical grade parts and surfaces made for the rugged environment of health care facilities.

The Avon24 is versatile in its movements giving the user a sense of gliding on the ground. At first glance its look exudes technology but at the touch of a button its up and running.  The Avon 24 comes equipped with an onboard power system that allows for up to 8 hours of use on a single a charge.  Its power system allows for the battery to be swapped out for a fully charged one or can offer the ability to add on another on board battery to double its length of use.  With its LCD battery meter the user can track its battery life with a quick glance.

The 20X PTZ HD camera gives the provider an enhanced look at its patient.  The provider has complete control of the camera at its fingertips and can zoom, pan, and tilt to capture all views necessary.  Its built-in directional condenser microphone zones on the patient's voice and filters out non-directional sounds. These peripheral elements allow for a clear communication path between the patient and the offsite provider.  The patient also has a direct view of the provider through the 24-inch HD touchscreen display.

Encrypted software and HIPPA compliant giving the Avon24 the utmost security. MTC providing the latest technology needed to bring patient and provider together seamlessly.

**AVON24**

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Mobile Telecare Systems designed the cart taking in the rugged demands of a hospital. It features a pneumatic lift lever that easily adjusts the height of the work surface and monitor to quickly go from a sitting to standing operation or vice versa. The LCD mount can tilt and swivel up to 15 degrees and is height adjustable in relation to the work surface. The workstation is built for quiet, discreet operation and is great for care centers. A pull-out keyboard tray retracts with a soft-close mechanism for minimal intrusiveness. The sturdy metal base rests on 4 silent-grade casters that are non-marring and the two front casters can lock or unlock with a simple step. The work/writing surface is equipped with two ergonomic handle holds for easy maneuverability and is non-porous for easy cleaning/disinfecting.

## FEATURES

- Pneumatic Height Adjustment
- Monitor mount with swivel and tilt adjustment
- Retractable keyboard tray
- CPU holder accommodates most CPUs up to 7" wide and up to 20 lbs.
- Mouse storage
- Sturdy metal construction with polycarbonate writing surface
- Total weight capacity is 110 lbs.
- Heavy duty locking casters, two with brakes
- Easy assembly

## SPECIFICATIONS

- Height adjustment range for LCD and work surface: 400mm (16")
- Work surface height: 892mm-1292mm (35"- 51")
- Work surface dimensions: 560mm (L) x 430mm (W) (22" x 17")
- Keyboard tray dimensions: 450mm (L) x 200mm (W) (18" x 8")
- LCD hanger can tilt adjustment: ±90°, swivel: ±15°
- Pedal locking casters: 101mm (4") diameter

# SPEC SHEET

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The IP 20x full HD camera offers smooth pan/tilt/zoom and powerful 20x zoom.  The open interface makes it easy to integrate with other systems and share information with a broader audience. Great for peer-to-peer communication in video conferencing.

## ADVANTAGES

- Ultra crystal video: with advanced 1/2.8 inch
- 8MP sensor and high quality 20x lens
- Fast switching between different video formats:
- only 3 seconds needed
- Fast and accurate focus
- Easy firmware upgrade-(field-upgradable):no need to open the camera housing
- USB2.0 compatible
- Daisy Chain function: with both Visca in and Visca out port
- Compatible with the majority of videoconferencing software (UVC1.1 protocol  standard)

## FEATURES

- USB3.0 & DVI-I(HDMI) simultaneous output
- Zoom: 20X Optical Zoom + 2XDigital Zoom 1920x1080p 60fps high resolution
- 57.4 Degree field of view:
- Ultra smooth PTZ mechanism
- Accurate PT motor control
- Up to 128 presets
- Effective RS232/485 serial control
- WDR, 3D-noise reduction function

## SPECIFICATIONS

- IP 20x
- Adopts most advanced DSP, 1/2.8 inch 5MP sensor
- 20x Optical Zoom + 2x Digital Zoom, with 60º FOV
- 1080p30 video over IP
- Supports H.264, H.265 encoding; POE
- Outputs: IP, HDMI, SDI and USB3.0
- Able to set IP address via OSD menu with the IR Remote Controller supplied.
- Automatic access to the IP address;
- Special Focusing Algorithm - fast and precise performance when camera's zooming
- WDR, 3D Noise Reduction feature;
- Standard IP Visca, Serial Visca, Pelco-P/D control protocol; IP Visca over TCP/UDP.

## CONNECTIVITY

- DC12V/2.0A
- Power port: HEC3800
- VISCA In/Out RS232
- LAN
- USB3
- SDI
- HDMI

## MOTORIZED PAN AND TILT

- Pan: ± 170º
- Tilt: 90º (up) -30º (down)
- Rotation Speed: Pan - 0 - 120º/s, Tilt - 0 - 80º/s
- 10 camera pre-sets via IR Remote Control
- Belt drive technology – twin motors for smooth, quiet and fast movement

## VIDEO FORMAT

- HDMI – 1080p60/50/30/25, 720p60/50/30/25, 1080i60/50
- IP - 1920x1080p30 (main stream) 1280x720, 704x576, 640x480, 352x288 (sub steam)
- SDI - 1080p60/50/30/25, 720p60/50/30/25, 1080i60/50
- USB3.0 - 1080p60/50/30/25, 720p60/50/30/25,
- USB2.0 – 1024x576p30, 960x540p30, 640x360p30, 352x288p30

## CONTROL

- 10 via IR Remote Control
- 128 via VISCA Control
- SB UVC FECC and 8 pin mini DIN
- VISCA/Pelco D/ Pelco P Protocol via RS232
- VISCA over IP –TCP/UDP

## SYSTEM REQUIREMENTS

- Windows® 7/ 8/8.1/10
- Mac OS® X 10.7 or higher
- Google Chrome book version 29.0.1547.70, platform 4319.79.0

## POWER SUPPLY

- Consumption: 12V, 2A
- Max Consumption: 24W

## ENVIRONMENTAL DATA

- Working temperature: -5 - 45ºC
- Storage temperature: -20 - 60ºC

## WARRANTY

- Camera: 3 Years
- Straight Swap: Faulty unit to be replaced with brand new unit if a fault happens in the first 3 months!

## COMPATIBLE APPLICATIONS

ZOOM, Adobe Connect, BlueJeans, CyberLink U Meeting®, Cisco WebEx®, Google Hangout, GoToMeeting, Intel® UniteTM, Microsoft® LyncTM, SkypeTM, Skype for Business, V-Cube, vMix, WebRTC, Wirecast, XSplit

The battery powered medical cart provide alternatives to the frequent problems brought on by older cart battery designs.

Nurses have a hard time with the exacting requirements of their daily rounds. Even though the mobile workstations they have are helpful, they bring technical problems.

Problems that can usually be traced back to the on-board battery.

## WE SEE THESE SPECIFIC FAULTS WITH COMMONLY AVAILABLE CARTS:

- The cart cannot work without a charged battery working as designed.
- The user is responsible for keeping it operational by watching the battery charge.
- Most carts cannot operate a full shift without stopping for a charge.
- Even if they could, they would be useless for the next user because of the dead battery.
- When the cart will not operate while mobile, technical support can take days or weeks for its repair. Few failures can be identified by the nursing staff and corrected on site.
- As we considered the root causes of the problems, we've listed these design goals:
- A battery pack that can serve as a 6 to10 hour power source and be exchanged with a fresh battery from a wall charger.
- A visual indicator without sound that alerts yellow as the end of charge nears and flashes yellow when it dips into the final 20 minutes. Intended to be the only battery-related element on the cart that needs any attention.
- An easy pack design that allows quick removal and exchange and is lightweight enough for small hands. Where battery exchange is called for, it can be done!
- An easy battery removal method so anyone can exchange a non-working battery. Similarly, replacing the entire power kit can be done within ten minutes.
- An on-board charge and safety system that allows cart use in the traditional plug-in and charge method. Battery exchange is supported at the user's end.

**MTC SYSTEMS**

| DESCRIPTION | STYLEVIEW LIFE POWER SYSTEM UPGRADE |
|---|---|
| Includes | <ul><li>Power module</li><li>Battery holster</li><li>330Wh LiFe battery</li><li>State-of-charge indicator (SOCI)</li><li>AC coiled power cord</li><li>3-outlet power strip</li><li>Attachment hardware</li></ul> |
| On Board Charging | No need to swap batteries |
| Battery | Certified to UL 2054, IEC 62133 |
| System Level Certification | Certification to UL 60601-1 |
| Delivers | Full power to computer equipment on the cart while simultaneously charging the battery |
| State of Charge | State of charge indicator shows time remaining in 20% increments … <ul><li>One amber LED and 4 green LEDs represent that battery is fully charged, 100%</li><li>One flashing amber LED indicates that less than 10% of the battery's capacity remains</li></ul> Battery and holster connectors rated to 5,000 cycles |
| Battery | <ul><li>330Wh, 12V LiFePO(4)</li><li>Weight = 8.1 lbs / 3.7 kg</li><li>6.5"W x 3"D x 10"H / 16.5 x 7.6 x 25.4 cm (includes handle)</li><li>25Ah continuous</li><li>Battery LED state of charge indicator</li><li>Charge rate = 10A</li><li>Charge time = 2.5–3 hours</li></ul> |

**MTC SYSTEMS**

## ALL IN ONE 24" TOUCH SCREEN

Impressive performance that fits right in. The design looks amazing. Touch screen for ease of use and performance will allow you look even better. Trust your mission-critical projects to MTCS we have built the system to handle the demands. Power your workday with a secure, enterprise-class system that's easy to manage and just as reliable as it is stylish.

| FEATURE | DESCRIPTION |
|---|---|
| Chipset | Intel Q87 Express |
| Processors | Intel 4th Generation Core i5, i7 Processors |
| Memory | 1333-MHz DDR3 SDRAM; (2) DIMM slots enabling up to 16GB, dual channel memory support |
| Internal storage | Up to 1TB hard drive, 160GB SSD (Solid State Drive); up to 256GB self-encrypting solid state drive; 500 GB Self-encrypting Drive, or 1TB solid state hard drive |
| Removable storage | ■ Slim DVD-ROM drive<br>■ Slim SuperMulti DVD writer drive |
| Graphics | ■ Integrated Intel HD Graphics 4600<br>■ Discrete AMD Radeon HD 7650A 2GB DDR3 MXM Graphics optional |
| Audio/Multimedia | ■ DTS Studio Sound<br>■ Realtek ALC 3228 Audio - 16 & 24-bit PCM<br>■ High performance integrated stereo speakers<br>■ Volume control and mute buttons<br>■ Stereo headphone jack<br>■ Microphone in<br>■ Stereo line out<br>■ Integrated 2.0 MP webcam (up to 30 frames/sec ) & dual microphone array optional |
| Communications | ■ Intel I217LM GbE Network Connection (integrated)<br>■ Intel Centrino Advance-N 6205 Wireless Network Interface Connection<br>■ HP WLAN 802.11a/b/g/n Wireless 2x2 Dual-Band Minicard with Bluetooth Combo |

**MTC SYSTEMS**

# MOBILE TELECARE SYSTEMS

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