# CS Voyager & AIO PC

# Technical Training

October 13, 2021

# Agenda

➢ **Technical Specification**

➢ **Installation**

➢ **Quick Start**

➢ **Maintenance**

# Product Introduction

- *CS Voyager -> Simply a mobile trolley*



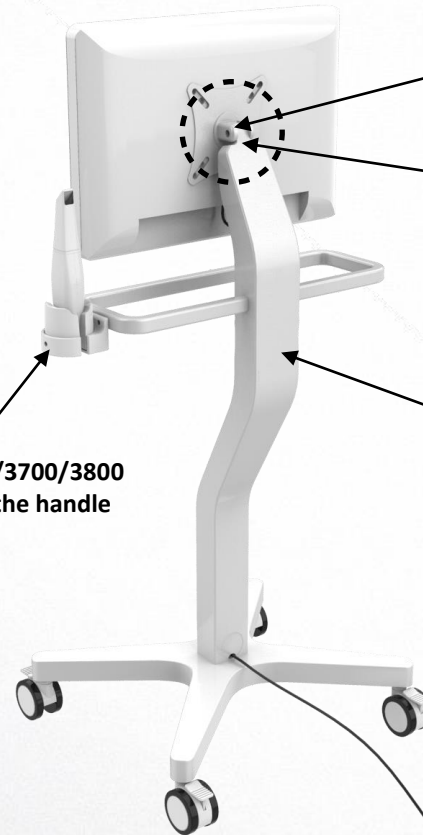- *AIO PC -> All-in-one medical grade PC for intra-oral scanners*

# CS Voyager + AIO PC



AIO PC can be connected by a standard VESA mount

Adjustable hinge to adjust the viewing angle of the screen

The holder of CS 3600/3700/3800 can be mounted on the handle

Power Adapter of PC can be hidden inside the stem

Base diameter 575mm x 510mm

All the wheels can be locked for stability

# Technical Specification

# CS Voyager and AIO PC Dimensions

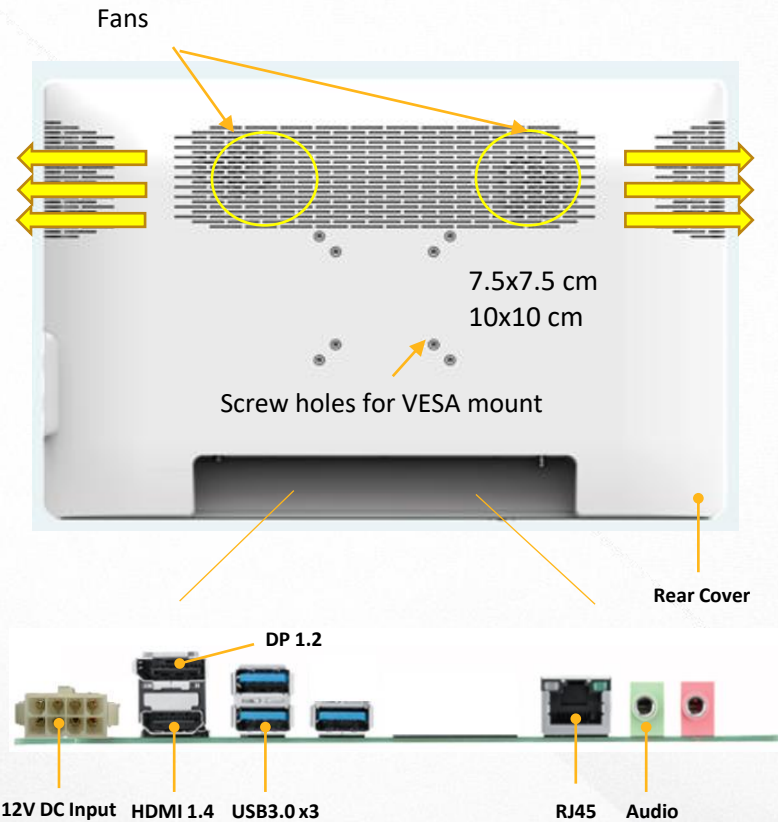| Item | Value |
|---|---|
| Dimension (L x W x H) | 57.5 x 51 x 121 cm concerning the max. size. (without accessories) |
| VESA Mount dimension | Support 7.5x7.5 cm and 10x10 cm |
| Height(Center position of VESA mount to the ground) | 116 cm |
| Height (Top surface of handle to the ground) | 92 cm |
| Weight | 13.7kg without accessories |
| Monitor up and down tilt range | Up and down to 50 degrees |
| Monitor side to side tilt range | Side to side to 50 degrees |

!Note: The VESA mount is not able to be rotated.





130 cm

50 cm

# AIO PC Technical Specification



**AIO PC is 21.5" touch screen**

Camera

Touch glass

Front Cover

Speaker    Power Button    Logo

USB3.0 x2

Fans

7.5x7.5 cm
10x10 cm

Screw holes for VESA mount

Rear Cover

DP 1.2

12V DC Input    HDMI 1.4    USB3.0 x3    RJ45    Audio

Front View

Rear View

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# AIO PC Technical Specification

| | | |
|---|---|---|
| **Computing System** | CPU | Intel Core TM i7-9700E Processor |
| | Memory | 16 GB DDR4-2666 |
| | Graphics | Intel UHD Graphics 630 |
| | Operating System | Win 10 IoT Ent LTSC |
| | Storage | SSD 256GB (100 GB for C:\ and 156 GB for D:\) |
| | WiFi+BT | IEEE 802.11 ac/a/b/g/n, Wi-Fi with Bluetooth 5.0 (M.2 Combo) |
| | GPU | nVIDIA T1000 MXM GPU |
| | Camera | Yes, 5M pixel camera |
| | Microphone | Microphone 2V 400uA 114dB OD6X2.2 2P L200 |
| | Speaker | Speaker 2W 4Ω 78dB 32x23x14mm |
| **Display** | Screen Size | 21.5" TFT LCD (16:9) |
| | Type | AHVN (IPS-like) |
| | Resolution | 1920 x 1080 (HxV) |
| | Viewing Angel(degree) | 178x178 |
| | Brightness(nits) | 250 nits |
| | Contrast Ratio | 1000:1 |
| | Display Colors(bits) | 16.7M (6bits + A-FRC) |

| | | |
|---|---|---|
| **I/O Ports** | USB Port | 5x USB 3.0 (Rear: 3, Side:2) |
| | HDMI | 1 (HDMI 1.4) |
| | DP 1.2 | 1 |
| | Ethernet (RJ45) | 1 |
| | Audio | 2 (Mic-in, Line-out) |
| **Physical Characteristics** | Weight | 6.6kg |
| | Dimension | 524 x 357 x 57 mm |
| **Environment** | Temperature | Operating: 0°C~35°C |
| | | Storage: -20°C~60°C |
| | Humidity | 10~95% @40°C (non-condensing) |



57 mm
524 mm
24 mm
357 mm
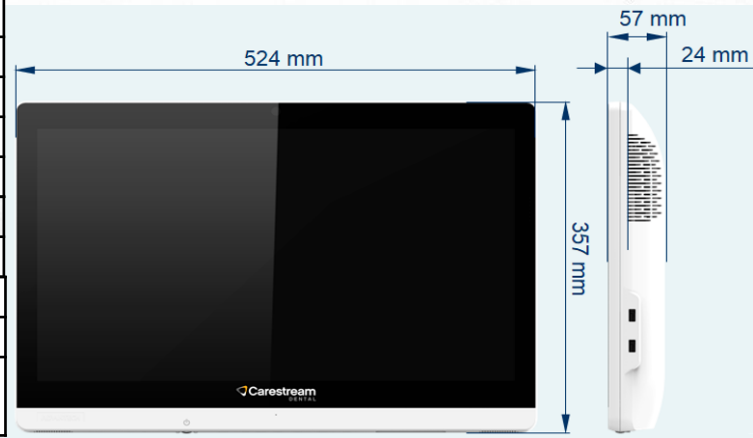
# Installation

# CS Voyager Components



Display stem

Accessory box

Installation guide
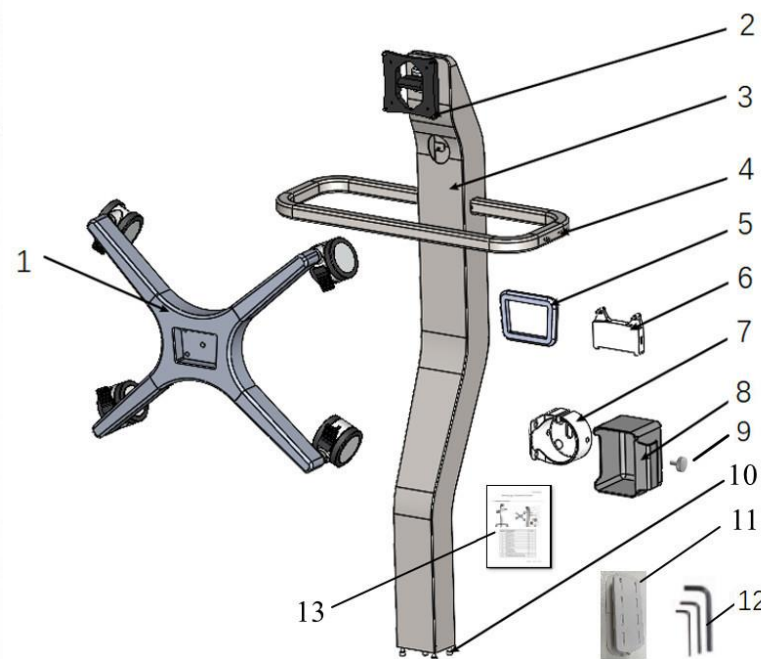
Wheel base

| No. | Description | QTY. | No. | Description | QTY. | No. | Description | QTY. |
|-----|-------------|------|-----|-------------|------|-----|-------------|------|
| 1 | Wheel base | 1 | 6 | Adapter base | 1 | 11 | Power strip hook | 1 |
| 2 | Screw M4x12 | 4 | 7 | Charger holder | 1 | 12 | Installation tool (Allen wrench) | 3 |
| 3 | Display stem | 1 | 8 | Basket | 1 | 13 | Installation guide | 1 |
| 4 | Screw M4x20 | 4 | 9 | Plastic knurled screw M4x10 | 4 | | | |
| 5 | Silicone rubber ring | 1 | 10 | Screw M6x20 | 4 | | | |

# AIO PC Standard Package
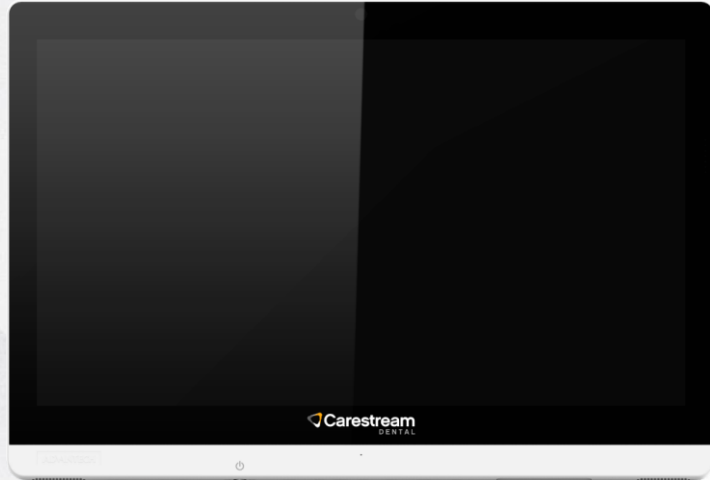


All in one PC



Power Adapter

USB Extension Cable (0.2m)
USB to Type-C Adapter

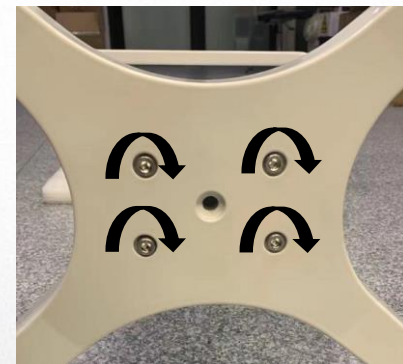| Input | 100-240 V, 2.9-1.25A, 47-63 Hz |
|---|---|
| Output | 220W/Max |
| Cable length | 80 cm |

*Power Cord is not packed with the PC and needs to be ordered separately
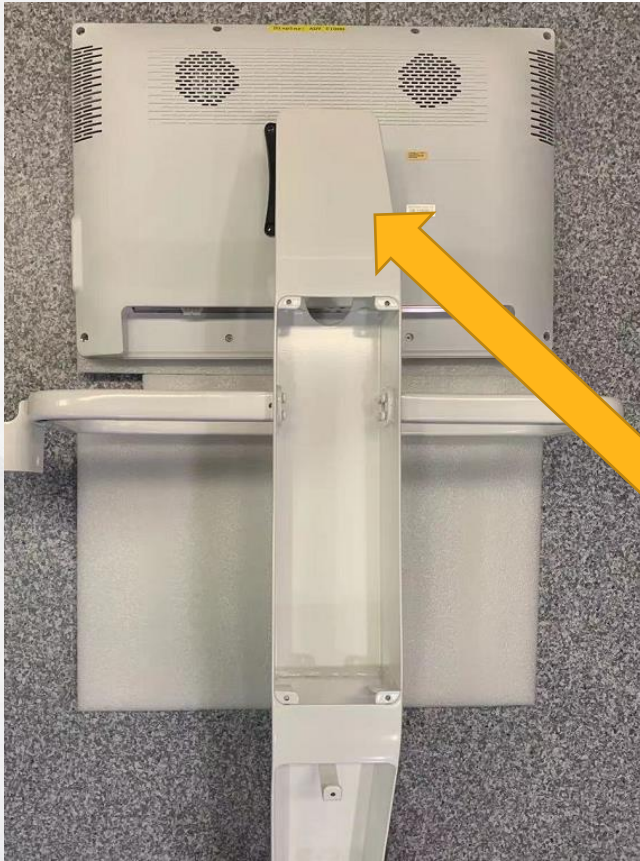
# CS Voyager Installation

- Display stem installation



**Silicone rubber ring**

M6x20
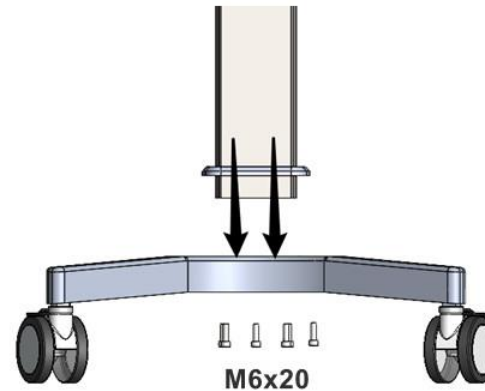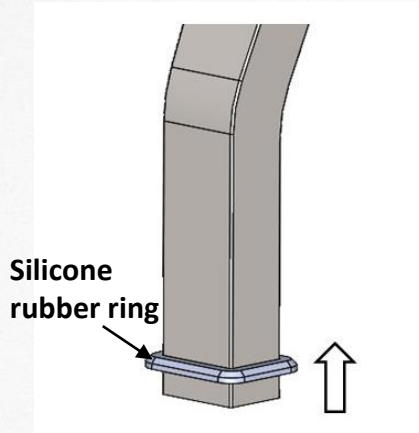
- Lay the stem down so you can install it easily and put foam beneath the cart to avoid scratches.



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# AIO PC Installation – With Trolley



- Place foam on the ground and place the AIO PC on top of it.
- Gently laydown the trolley and align the VESA mount with the holes on the PC.
- Install and tighten 4 screws (M4 x 12) on the VESA Mount.
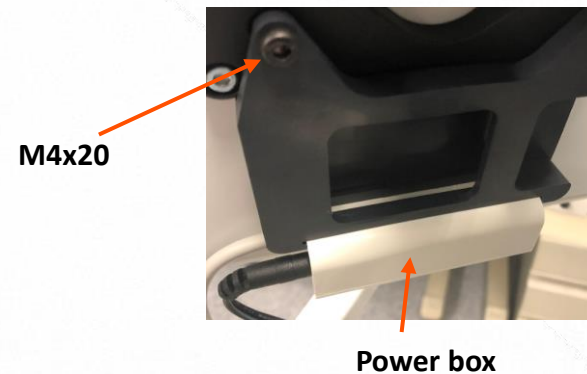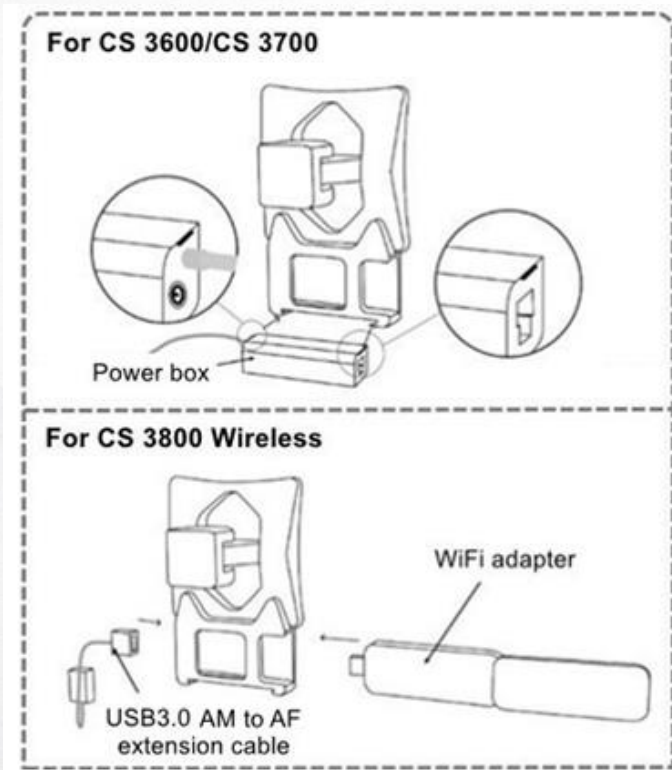- Standup the trolley.



M4 x12

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# Accessory installation

➢ Adapter base

❖ For CS 3800 Wireless, mount the WiFi adapter. A USB 3.0 extension cord is required for the connection.

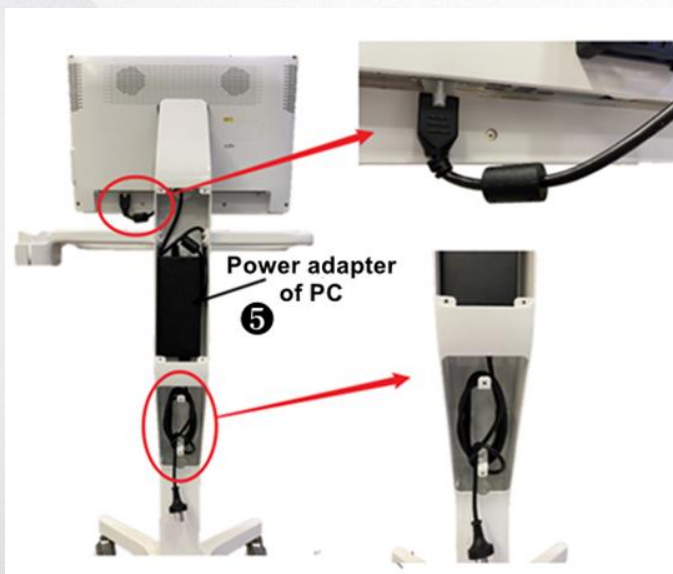❖ For CS 3600/CS 3700, slide the power box into the adapter base



For CS 3600/CS 3700

Power box

For CS 3800 Wireless

WiFi adapter

USB3.0 AM to AF extension cable

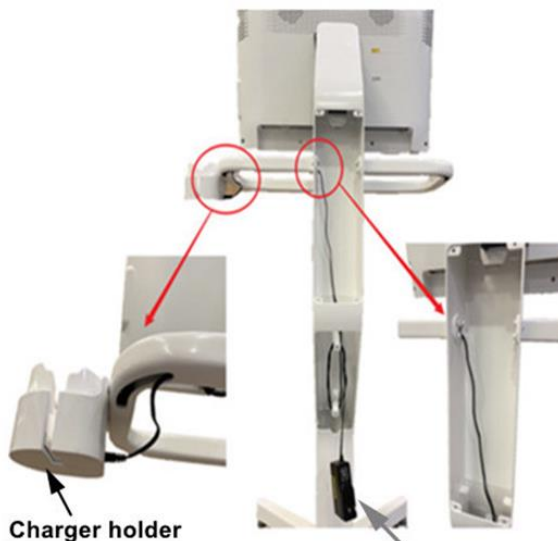**M4x20**

**Power box**

# Accessory installation
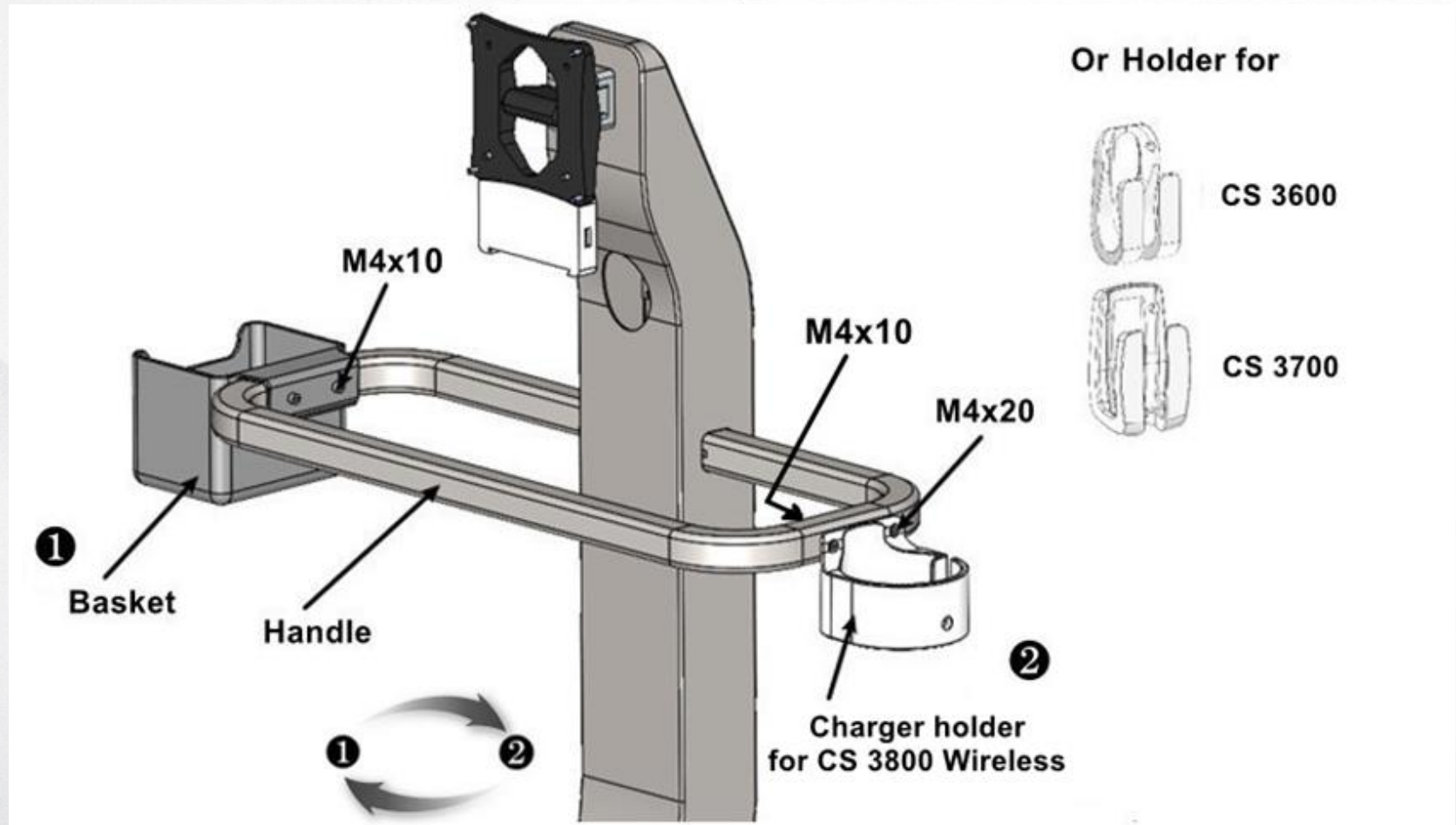
# Cable storage and management

- AIO PC– Power adapter
- IO Scanner
  - ➢ CS 3800 Wireless – Power adapter for charge holder
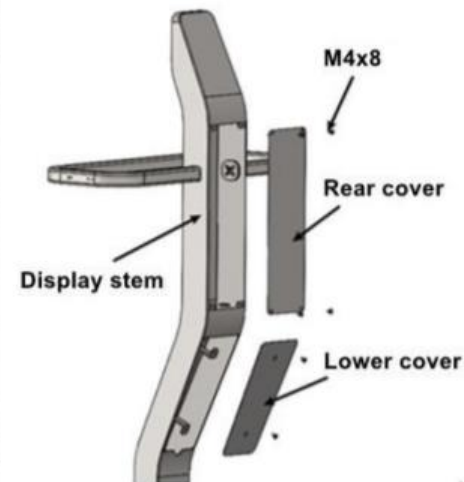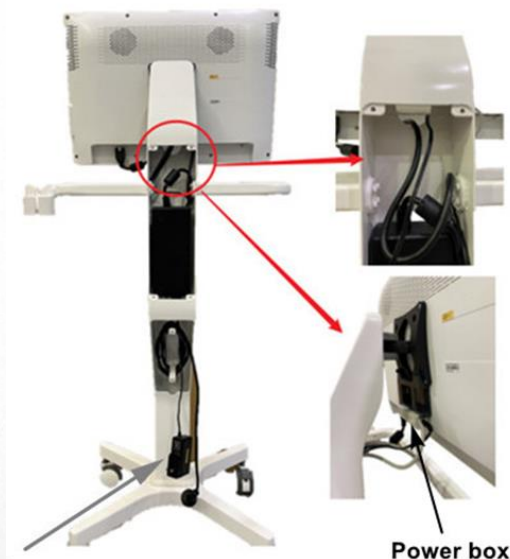  - ➢ CS 3600/CS 3700 – Power box and power adapter



M4x8

Rear cover

Display stem

Lower cover

**AIO PC**



Power adapter of PC

❺

**For CS 3800 Wireless**



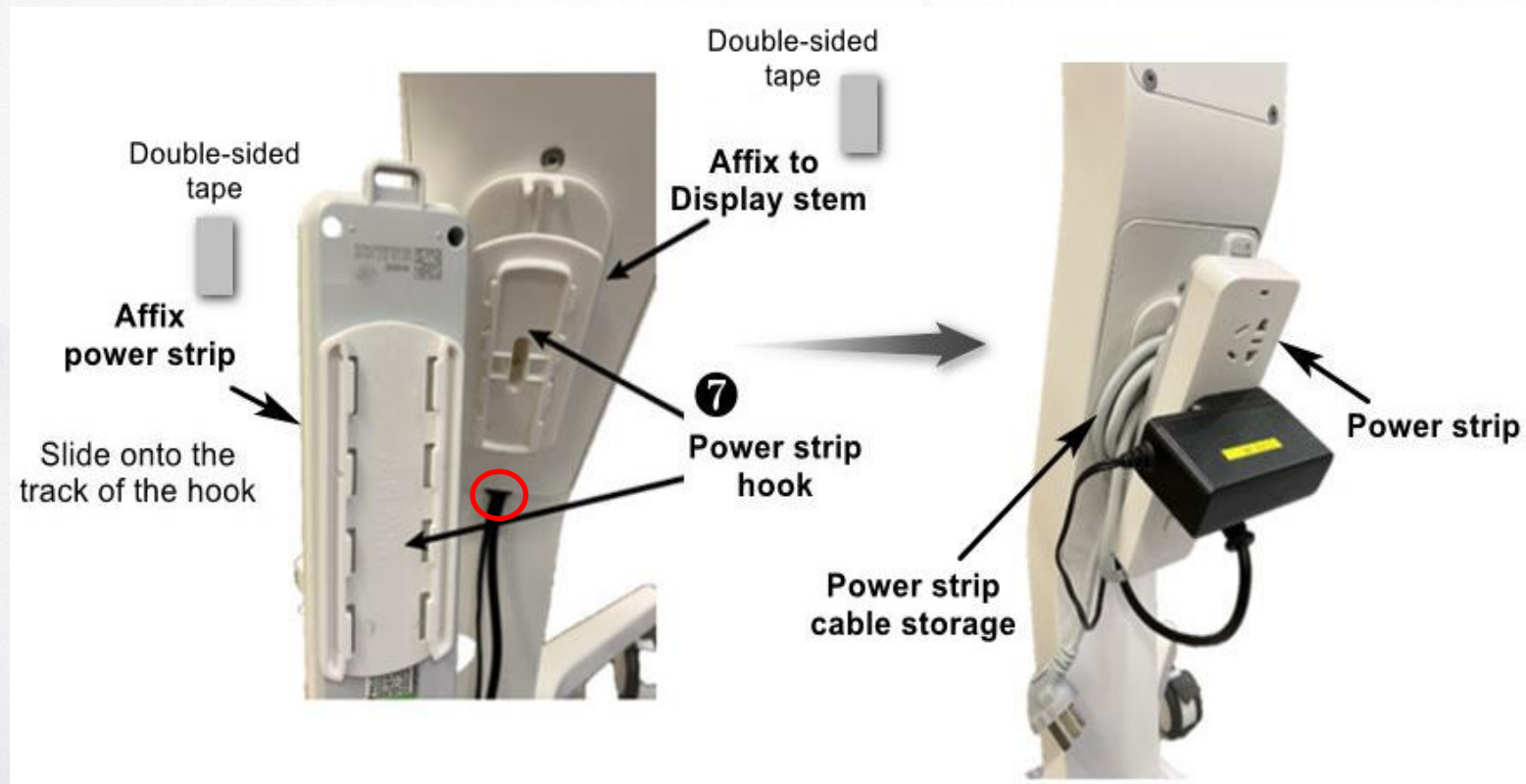Charger holder

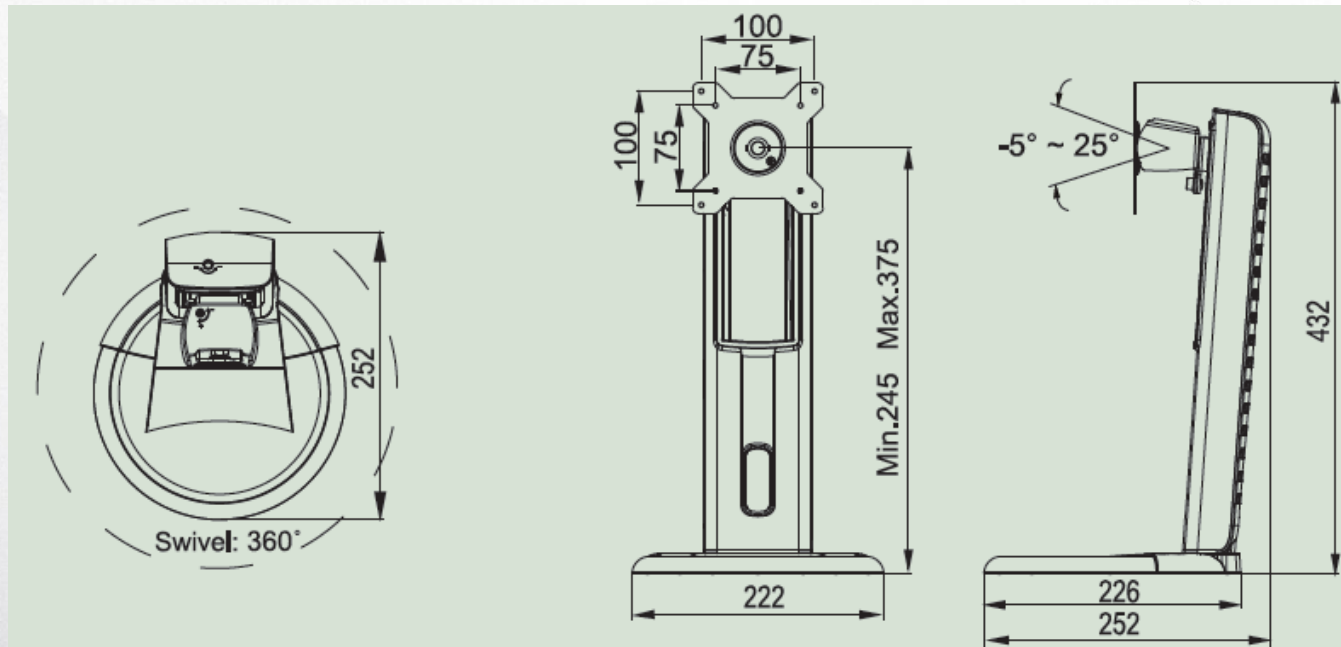**For CS 3600/CS 3700**



Power box

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# Cable storage and management

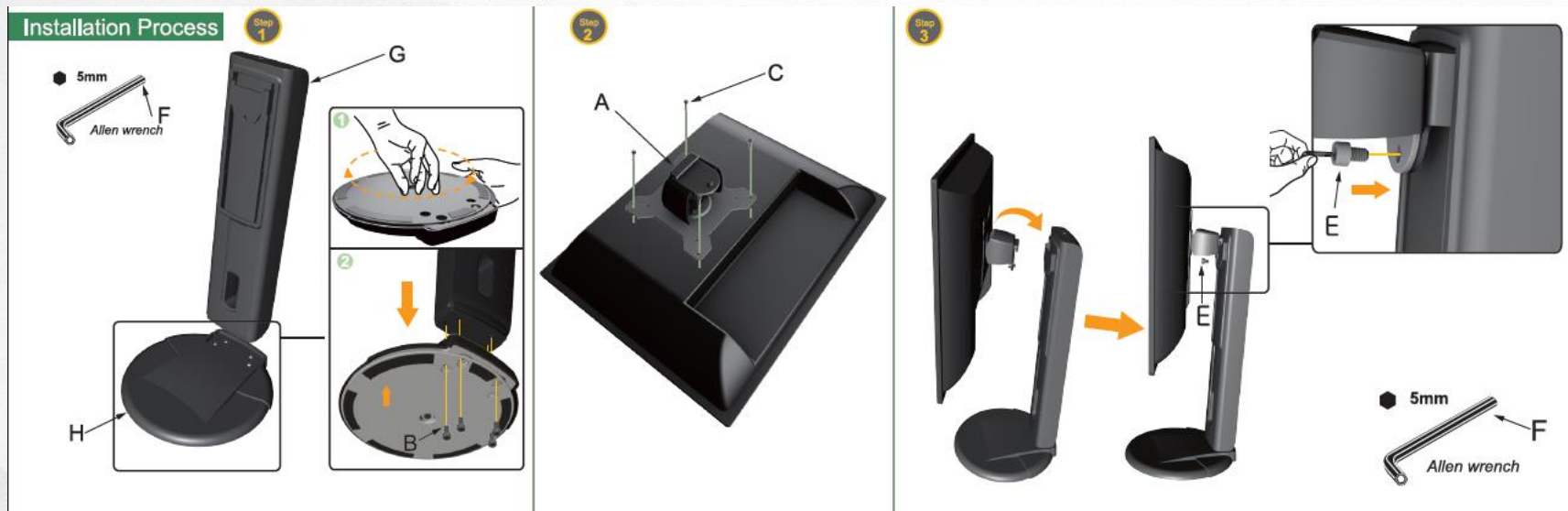- Power strip hook installation
- Power strip cable storage



Two pieces of double-sided tape are included with the power strip hook.

# Desktop Stand CAT# 5943782

# AIO PC Installation- **With desktop stand**



Installation Process

Step 1 · Step 2 · Step 3

5mm
F Allen wrench

G
H
B

A
C

E
E

5mm
F Allen wrench

Swivel&Tilt / Rotate

Vertical Adjust

Tilt

-5°~+25°

Rotate
+90°

Option : Remove screw to rotate 360°

Swivel

5mm
F Allen wrench

+ −

Torque Adjust

2.5mm
D Allen wrench

+25°

-5°

+ −
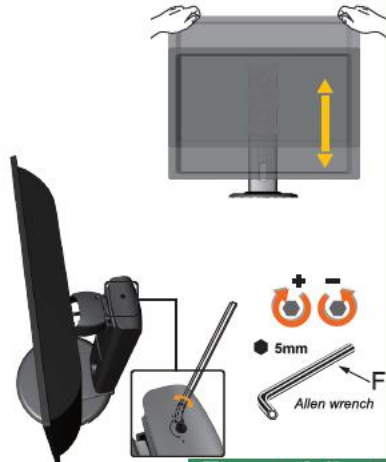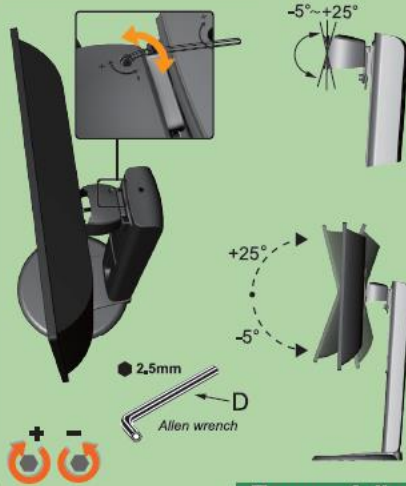
Torque Adjust
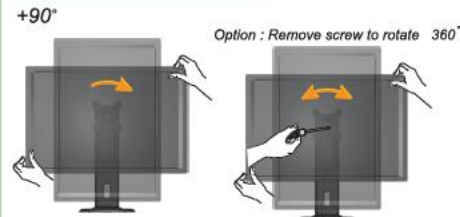
Cable Management

Swivel
360°

# Quick Start

# AIO PC PC Setup

- Tear off the protective film on the screen before use to enable good touchscreen experience.
- Operation System: Windows 10 IoT Ent 2019 LTSC
- User account creation
- Software installation
  - ➢ CS Imaging software
  - ➢ CS ScanFlow
  - ➢ Any other software that is needed
- Database creation
  - ➢ CSI database
  - ➢ The folder to save exported image file and CSZX
- Backup
  - ➢ Please follow HT#126 to set up the backup of images

> Recommend to set the database to another PC or sever.

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# Maintenance

# Clean and Disinfection – AIO PC

Below wipes& solutions have been tested with the AIO PC.

1. AHP Accel TB
2. 75% Alcohol
3. Glutaral dehyde [$C_5H_8O_2$], 2% concentration
4. Isopropyl alcohol [$(CH_3)_2CHOH$], 70% concentration
5. Sodium hypochlorite [$NaOCl$], 10% concentration
6. CHLOR-CLEAN-1.7g NaDCC(1000 ppm available chlorine)
7. Clorox Healthcare® Hydrogen Peroxide
8. Clorox Healthcare® VersaSure
9. Clorox Healthcare® Bleach Germicidal Wipes

# Clean and Disinfection- Trolley

1. 75% Alcohol
2. CaviCide
3. CaviWipes

Above solutions and wipes were tested by us.

!Note: Using untested solution may cause discoloration to the painting. Do not use the Sodium Hypochlorite which will cause yellowing.

# Service Parts

- AIO PC Power Adapter, (SPCX761)
- Wheels of the trolley (SPCX762)
- Hinge assembly, SPCX763. Use of a 5mm Allen wrench is required



- Holder Kit, SPCX764

Includes the holder for CS 3800 and the adapter base

# CAT# List

| Cat # | Description |
| --- | --- |
| 5943758 | POWER CORD, EMEA |
| 5943766 | POWER CORD, US&C |
| 5943774 | POWER CORD, UK |
| 6890313 | POWER CORD, CHINA |
| 6890321 | POWER CORD, JAPAN |
| 5943782 | Stand for AIO PC |
| 5943790 | AIO PC All-in-One PC |
| 5943832 | CS VOYAGER |
| **Consumables** | |
| 5944434 | Basket, CS VOYAGER |
| **Spare Parts** | |
| SPCX761 | AIO PC Power Adapter |
| SPCX762 | Wheels Kit  (4 wheels) |
| SPCX763 | Hinge Assembly |
| SPCX764 | Holder Kit |

# Thank You