M/CONNECT

USER GUIDE

Humanscale®

Table of Contents

PARTS REQUIRED

M/Connect Parts

A   (1) M/Connect Hub and Dock Clamp

B   (2) Cable Channels (Provided if ordered in configuration)

C   (1) USB 3.0 Upstream Cable

D   (1) Power Adaptor

E   (1) Power Cable (localized)

A

B

C

D

E
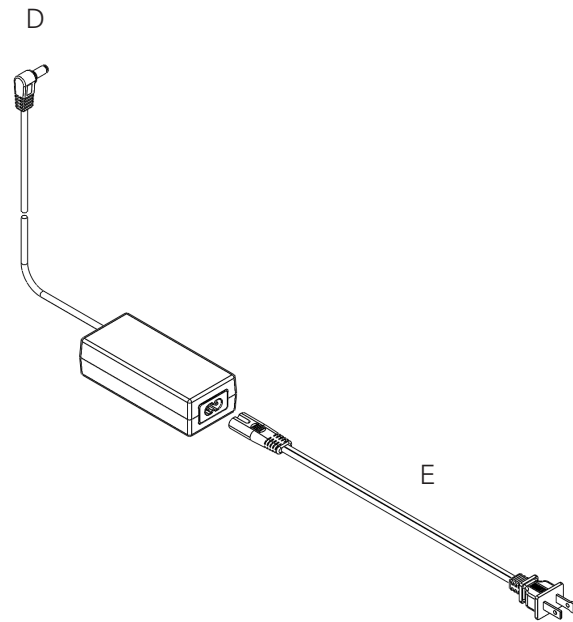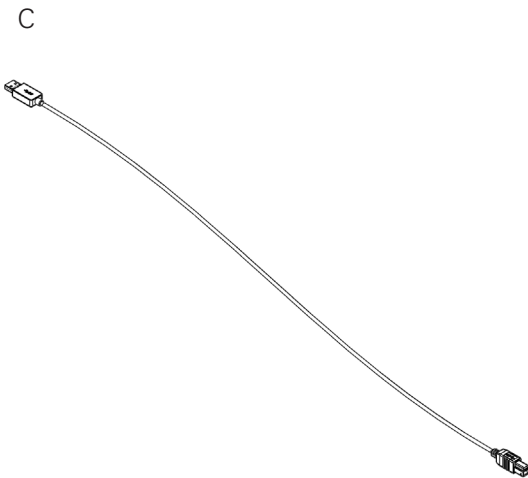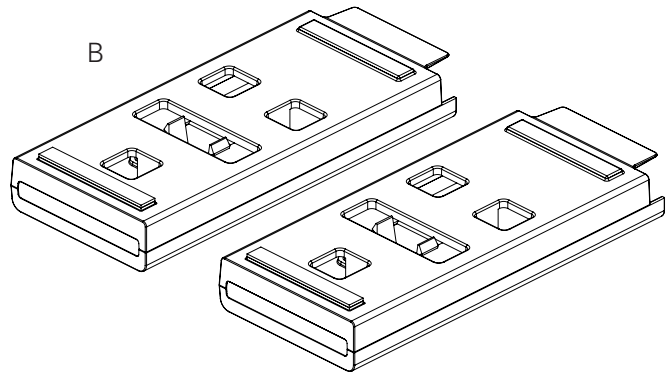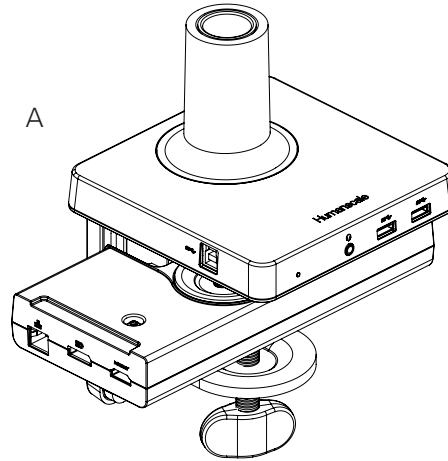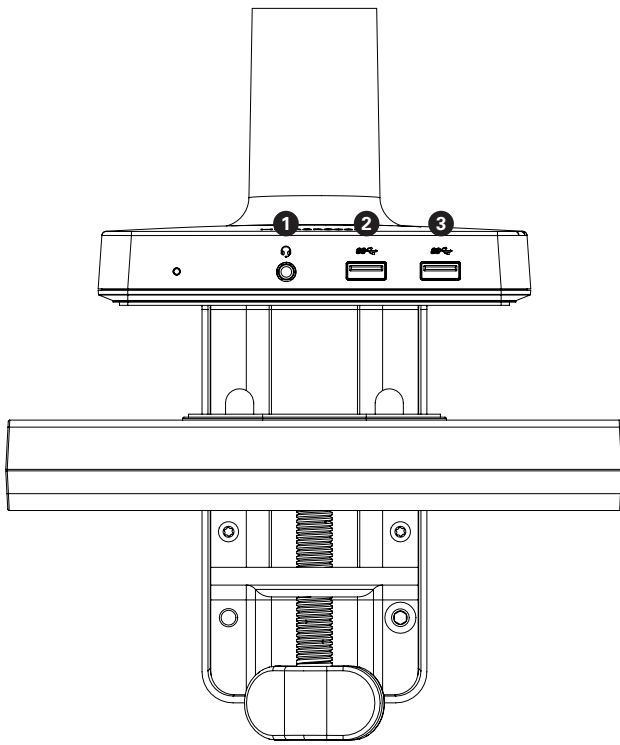
Front Panel
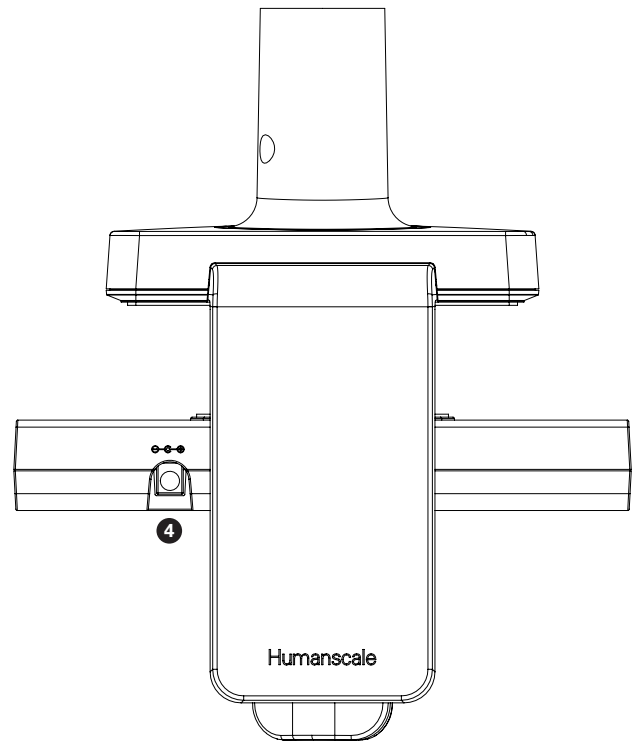
Rear Panel

	Component	Description
1	3.5 mm TRRS jack	To connect combined headphone and microphone headset
2	USB 3.0 port	To connect USB devices (USB 1.0, 1.1, 2.0, 3.0 compatible)
3	USB 3.0 port	To connect USB devices (USB 1.0, 1.1, 2.0, 3.0 compatible)
4	DC in	5V / 8A DC to power M/Connect
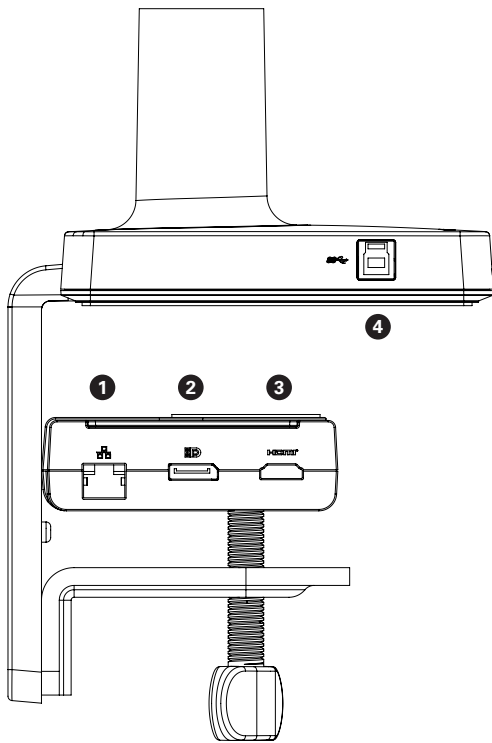
Left Panel
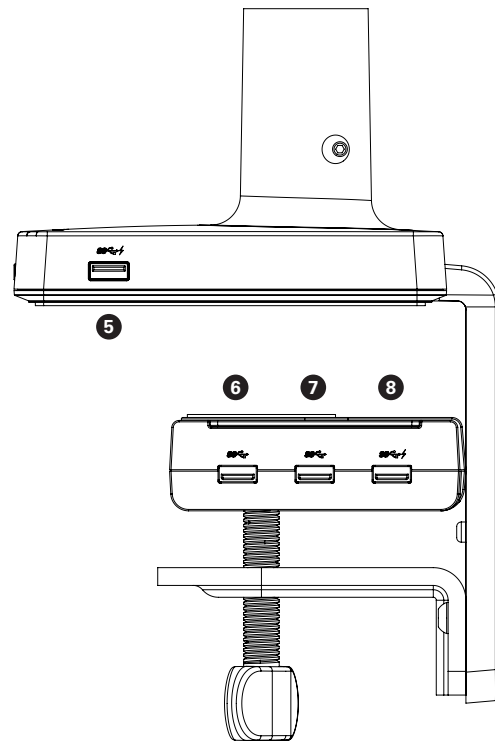
Right Panel

	Component	Description
❶	Gigabit Ethernet port	To connect to local area network
❷	DisplayPort port	To connect an DisplayPort monitor
❸	HDMI Port	To connect an HDMI monitor
❹	USB 3.0 upstream port	To connect a notebook / computer
❺	USB 3.0 port with battery-charging function	To connect USB devices (USB 1.0, 1.1, 2.0, 3.0 compatible). USB port is compatible for quick-charging BC1.2 compatible devices
❻	USB 3.0 port	To connect USB devices (USB 1.0, 1.1, 2.0, 3.0 compatible)
❼	USB 3.0 port	To connect USB devices (USB 1.0, 1.1, 2.0, 3.0 compatible)
❽	USB 3.0 port with battery-charging function	To connect USB devices (USB 1.0, 1.1, 2.0, 3.0 compatible). USB port is compatible for quick-charging BC1.2 compatible devices

INSTALLING M/CONNECT SOFTWARE

STEP 1

M/Connect Driver Installation Instructions

YOU MUST INSTALL THE NECESSARY DRIVERS ONTO YOUR COMPUTER BEFORE
USING M/CONNECT. THIS WILL ENSURE PROPER OPERATION.

NOTE: For proper installation of the DisplayLink drivers, it is important to make sure your
USB 3.0 Host Controller Driver and Graphics Adapter Driver are up to date

- Go to http://www.displaylink.com/downloads/

- Choose your operating system

- Download and install the latest driver

- Ready to go!

TROUBLESHOOTING
We recommend following these guidelines as a best practice.

Ensure installation isn't blocked by a corporate firewall

If your firewall blocks the installation of this driver, corporate users should contact their systems administrator and have them allow this driver under their corporate installation standard procedures (MSI Installer), available for download from DisplayLink's website.

Individual users should ensure that suggestions to update other drivers are followed. This typically includes updating the laptop graphics and USB drivers to the latest version.

Updating the host graphics drivers to the latest version: For Windows 7, USB laptop drivers are provided by Intel/OEM notebook vendors. Users have to update this manually. Please refer to http://support.displaylink.com for more details. For Windows 8 onwards, laptop drivers are provided by Microsoft and updated in the system via Windows update.
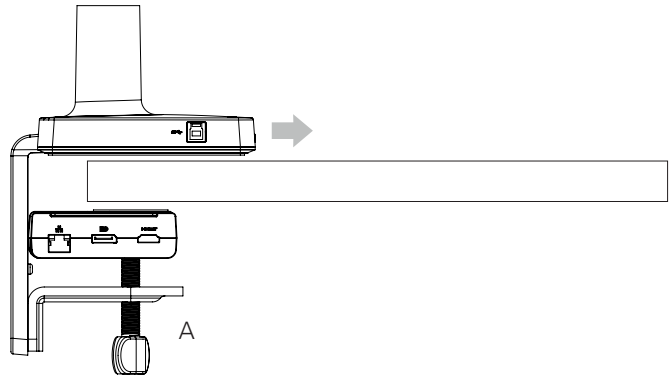
For the best user experience, we recommend running the latest version of the driver.

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INSTALLING M/CONNECT ONTO EDGE OF TABLE

STEP 1

Place M/Connect Clamp onto Table

- Slide mount against work surface edge and fully tighten clamp screw (fig. A)

A

INSTALLING M/CONNECT THROUGH A GROMMET HOLE OR SYSTEM FURNITURE
STEP 1

Disassemble Clamp

- Remove the two screws (fig. B) using hex key (fig. D) and detach the three cables from the Dock (fig. C) to separate Dock from Hub
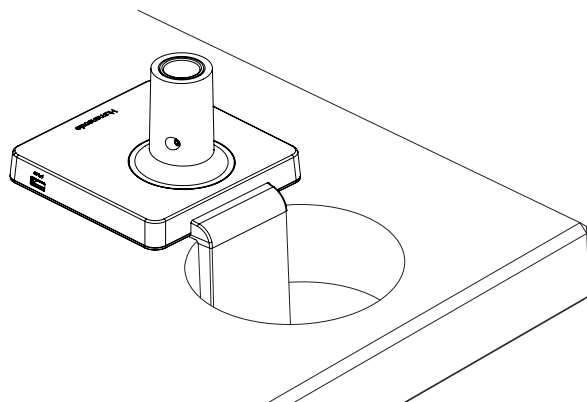

B

C
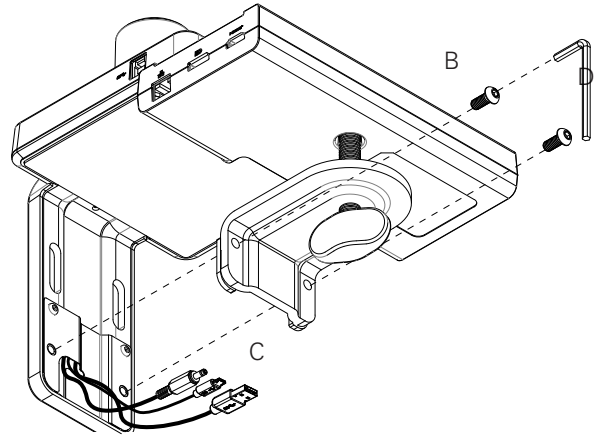
STEP 2

Place into Grommet Hole or System Furniture Gap

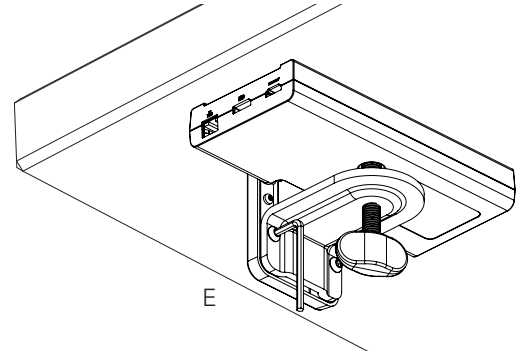- Place the Hub of the M/Connect through the grommet hole and to the desired position

  Note: Minimum hole diameter is 3" (76 mm)
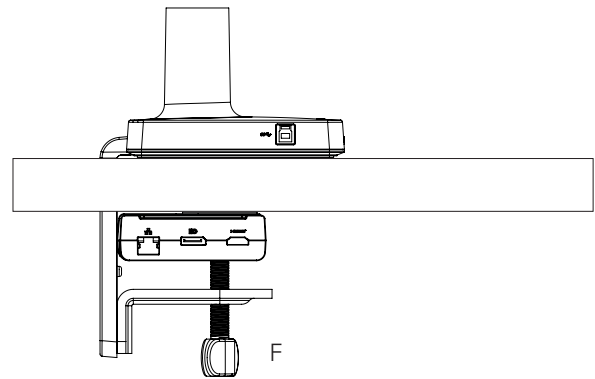
STEP 3

Reattach Dock to Hub

• Reattach all three cables to the Dock and into their appropriate ports

• Secure the Dock to the Hub reusing the two screws (fig. E)

STEP 4

Tighten Clamp Screw

• Tighten the clamp screw (fig. F) to ensure the M/Connect is secured to the work surface, by rotating the knob 3 full turns after initial resistance is felt

ATTACHING A MONITOR ARM TO M/CONNECT

M2 MONITOR ARM

Adjust Base Clamp for Correct Work Surface Depth

• Remove set screw (fig. G) from Base using hex key

• Insert Monitor Arm into the Base stem (fig. H) with its slot facing the rear

• Reinsert the set screw and tighten so that the arm is unable to lift out and the 180° stop* is engaged
(*arm won't be able to swivel past the rear desk edge)

• Proceed to the "Attach VESA Bracket to Monitor" step in the main M2 instruction guide
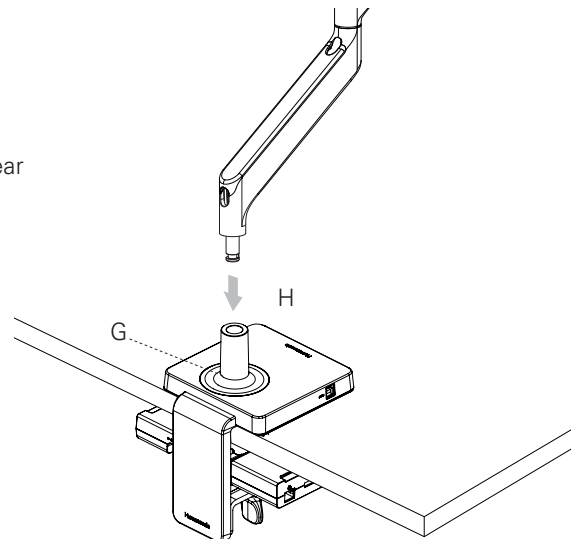
M8 MONITOR ARM

Adjust Base Clamp for Correct Work Surface Depth

- Remove set screw (fig. I) from Base using hex key

- Insert Monitor Arm into the Base stem (fig. J) with its slot facing the rear

- Reinsert the set screw and tighten until it seats
  and the 180° stop* is engaged
  (*arm won't be able to swivel past the rear desk edge)

- Proceed to the "Attach VESA Bracket to Monitor" step
  in the main M8 instruction guide

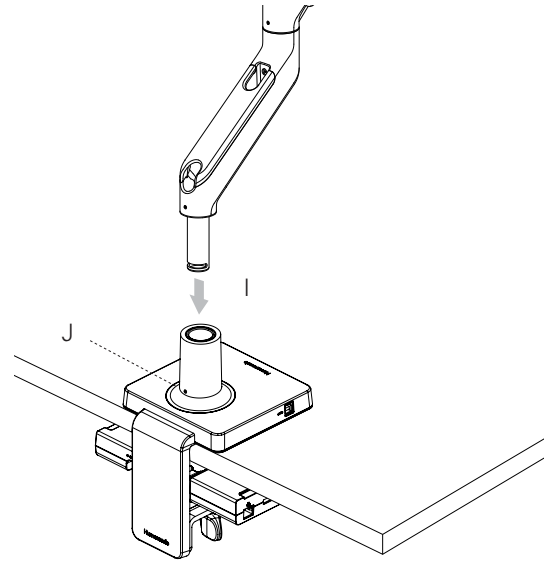# M/FLEX MONITOR ARM POST

Adjust Base Clamp for Correct Work Surface Depth

- Remove the two set screws (fig. K) from Base using hex key

- Place M/Flex post into Base stem

- Screw in the post (fig. L) until it is connected firmly

- Proceed to the "Cable Management and Bracket Assembly"
  section the main M/Flex instruction guide

- Reinsert the two set screws and tighten so that the post
  is unable to rotate easily
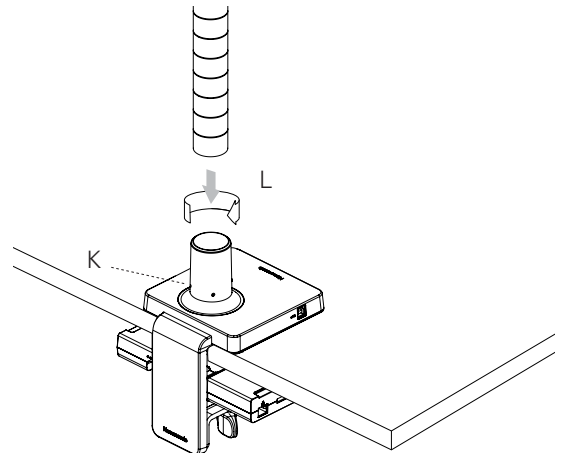
INSTALLING THE CABLE CHANNELS

STEP 1

Remove Adhesive Backing

• Peel off the Velcro's protective backing (fig. M)

Alignment Tab

M
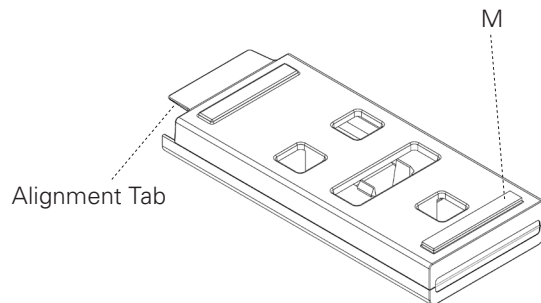
STEP 2

Attach to M/Connect Dock

• Approach M/Connect Dock on an angle to make sure the adhesive does not stick to the desk before the Cable Channel is aligned

• Align Cable Channel with Dock using the alignment tab

• Push up Cable Channel against the bottom of the work surface to secure it with adhesive

• Repeat Steps 1 and 2 with the second Cable Channel
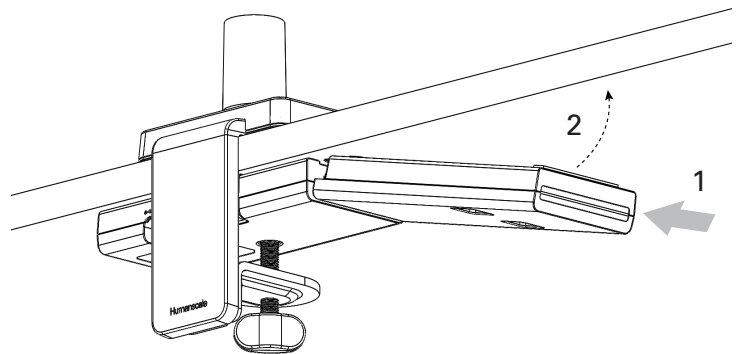
STEP 3

Connect Cables

• Open up Cable Channel by reaching into bottom Access Holes and squeezing the opening tabs together

• Plug cables into the Dock

• Coil the cable slack around the 4 hook features

• Close Cable Channel until it snaps

Hook Features

Access Holes
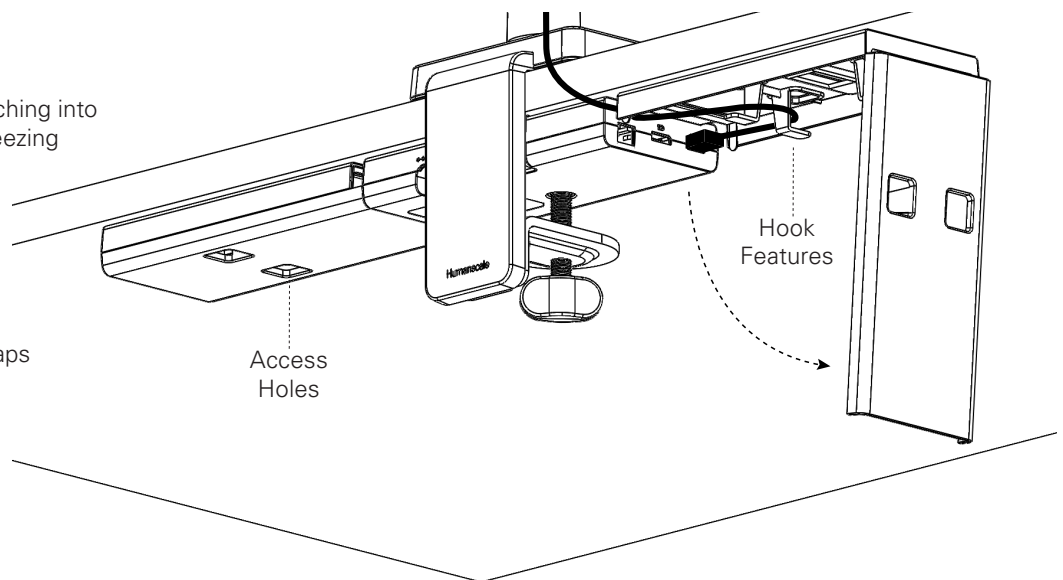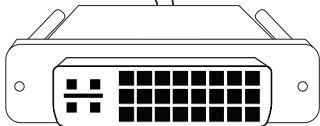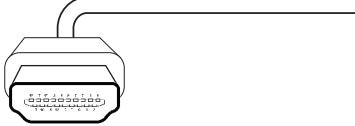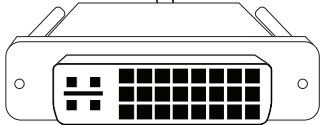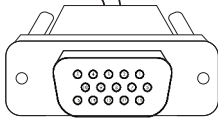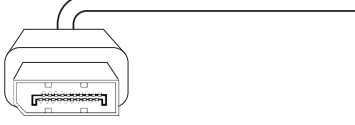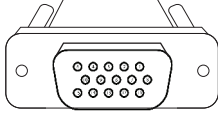
CONNECTING MONITORS TO M/CONNECT

The M/Connect Dock provides two monitor connections: an HDMI port and a DisplayPort (DP) port.
Each of your monitors has one or more of the following ports: VGA, DVI, HDMI or DP. If the monitor has an HDMI or DP port, you can use the existing cable to plug directly into the same port on the M/Connect Dock. If you have two monitors and each has an HDMI and a DP, then you can plug one into each of the same ports on the M/Connect Dock. However, if you do not have one 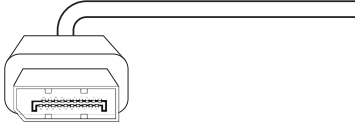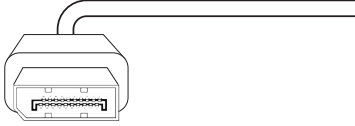of these configurations (i.e. you only have VGA or DVI monitor ports), you will need to use a replacement cable to provide the correct connection from the M/Connect Dock to your monitor.

Humanscale offers replacement cables, found in the M/Connect Price List and in the M/Connect section of the
Humanscale website: www.humanscale.com.

Use the chart below to determine which replacement cable you need based on your monitor's port availability:

Available port on M/Connect (output)	Available port on monitor (input)
M/Connect Replacement Cable - DP to HDMI Humanscale part # : CA-DPHD	
M/Connect Replacement Cable - DisplayPort to DVI Humanscale part # : CA-DPDV	
M/Connect Replacement Cable - HDMI to DVI Humanscale part # : CA-HDDV	
M/Connect Replacement Cable - HDMI to VGA Humanscale part # : CA-HDVG	
M/Connect Replacement Cable - DP to VGA Humanscale part # : CA-DPVG	

Set the Monitor Input Source

- Each Monitor has a menu (often in the front right lower corner) in which you can select the cable input that you are using.
- Set the correct input by using the scroll keys to select the correct source.
- Many monitors have more than one of the same connector (example, HDMI 1 and HDMI 2). Make sure to note the specific port where you installed the cable to ensure you have the exact port you are using entered into the monitor (if you connect to HDMI 1, you must select HDMI1). If you select the wrong one, the monitor will NOT work.
- Some monitors detect the input source automatically and may not require setting.

USING M/CONNECT

BEFORE YOU CONNECT M/CONNECT TO YOUR LAPTOP:

- Please install the necessary drivers as detailed on page 6
- Please make sure your monitor(s) are set up properly to display from the inputs you are using (e.g. HDMI 1, HDMI 2, DisplayPort etc.)

STEP 1

Power up M/Connect

- Plug the 5V DC jack into M/Connect, and then plug power adapter (pg. 3, fig. D) into the mains (pg. 3, fig. E) to power it up

STEP 2

Connect M/Connect to your Laptop

- Connect your laptop using the USB 3.0 cable provided. It may take a few seconds for your laptop to recognize the additional screen(s). While the connection is being made, the screens will flash

STEP 3

Adjust Screen Positions

- To adjust the 'position' of your screens relative to your mouse movement, go to:
  - Windows: Control Panel \ Appearance and Personalization \ Display \ Screen Resolution
  - Mac: Apple menu \ System Preferences \ Displays
- Drag and drop the display icons into the correct locations and save settings. Moving windows or the mouse between the screens should be a seamless intuitive experience once the monitor locations are set

STEP 4

Attaching Peripherals

- Plug your non-portable peripherals (e.g. printers) into M/Connect's under-work surface Dock

STEP 5

Ready to use!

- You are now ready to begin using your M/Connect

TROUBLESHOOTING

If the screens don't light up and show data after first installing:

- First, check that the input selected on the monitor(s) matches the cable types used in connection (DVI/HDMI etc). It can be best practice to set this to the desired connection rather than auto

- Check that the cables are correctly installed and pushed firmly into place on both the monitor and into the Dock connection on M/Connect

- Ensure that the monitor is powered on. You should see lights on the monitor which means it has power

- Ensure M/Connect is powered on. You should see a white light on the front of the Hub which means it has power

- Try unplugging the USB cable connected to the host notebook and then reconnect after a few seconds. If the connection is made correctly, the host notebook or computer screen should flash while the solution configures the external displays. Configuration can then be viewed under Windows Display Manager

PRODUCT SPECIFICATIONS

Hub

Dock
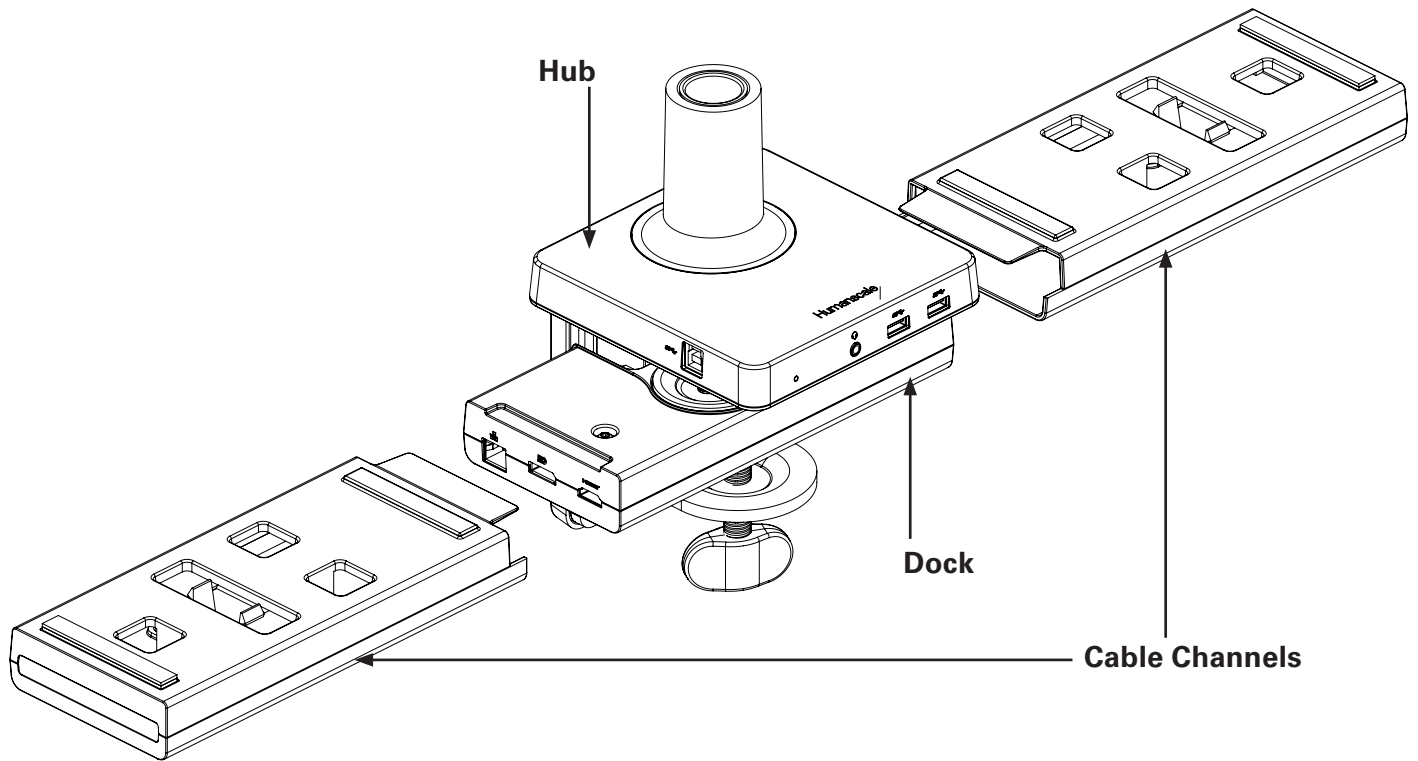
Cable Channels

Product Weight

M/Connect (Hub and Dock)	**2.1kg** (excluding Cable Channel and Power Adapter)
Cable Channel	**2 x 310g**
Power Adapter	Darfon Adapter **274g**

Power Consumption (Dual head, no other USB devices connected)

Notebook Hibernate	**0.9W**
Notebook Sleep	**1.5W**
Notebook On	**3.4W**

ELECTRICAL SPECIFICATIONS

Hub	USB 3.0 ports (self powered)	Upstream Connector	Type B 1x (connects to Notebook)
		Downstream Connector	Type A 1x BC1.2 (1.5A front left) Type A 2x (5V, 0.9A)
	Microphone/Headphone	4-pole 3.5mm combo jack with auto switch Apple/Samsung type versus Nokia type	
Dock	Video 1 output	Display Port 1.2, Dual mode	Max resolution 2560x1440 (16:9) single head, auto downscale to 1920x1080 with dual head. Supports HDMI output with passive cable adapter
	Video 2 output	HDMI 1.3	Max resolution 2560x1440 (16:9) single head, auto downscale to 1920x1080 with dual head.
	Network	Gigabit Ethernet Transfer rate 10/100/1000 Mbps (over LAN port)	
	USB3.0 ports	Downstream Connector	Type A 1x BC1.2 (1.5A rear) Type A 2x
Operating System	Windows 7/7Pro (32bit/64bit), Windows 8/8.1Pro (32bit/64bit), Windows 10 (32bit/64bit), Apple OS X Version 10.8.3 and above (Mountain Lion v10.8, Mavericks v10.9, Yosemite v10.10)		
Power Adapter Requirement	AC input	90 - 264V (47-63Hz)	
	Input connector	IEC320 C8	
	Output connector	DC 5V Single pin Barrel plug diameter 5.5x2.5 mm length 11 mm	
	Output DC cable length	0.8m	
	Output voltage and current	5V, 0~8A	
	Efficiency	Meet US DoE level VI, efficiency >86.1%, No load power <0.1W for Darfon power adapter	
	ESD	IEC61000-4-2 Contact +/-4kV, Non contact +/-8kv	
	EFT	IEC61000-4-4 +/-1kV on AC power line	
	Surge	IEC61000-4-5 +/-1kv common/differential mode	
	Leakage current	Leakage current <250uA at 264VAC, fulfills NFPA99	
	AC mainscord	Length=1.8m, Plug type; 2-pin with countries reference below	
	Countries	USA, Canada, Europe, UK, Australia, New Zealand, Japan, South Korea, India, Malaysia, Hong Kong, Singapore, Thailand, Taiwan, Philippines, South Africa, China	
	Audible noise	No audible noise at different power level and mains voltage from 0.5m	

	Safety (based on power adapter) and applies to complete product	UL(USA) UL60950-1 2nd edition 2011-12-19 CSA C22.2 NO.60950-1-07, 2nd Edition, 2011-12 IEC60950-1 2nd edition 2005 + A1-2009+ A2-2013 and EN60950-1:2006 + A11:2009 + A1:2010 +A12 \:2011 + A2:2013 TUV SuD GS EN60950-1:2006 + A2:2013 AfPS GS 2014:01 PAK3.1 PSE J60950(H26) - JAPAN PSB IEC60950-1:2005+A1:2009+A2:2013 -S'PORE AS/NZS 60950.1:2011+A1- AUS/NEW ZEALAND BSMI CNS14336-1(2010) and CNS13438(2005) – TAIWAN
	Energy Efficiency	Australia/NZ GEMS/MEPS 4665.1:2005+A1:2009 Nrcan CAN/CSA-C381.1-08 (Nat Resources Canada)
	EMC (based on adapter and applies to complete product)	CE mark EN55022 : 2010+AC:2011 EN50024:2010 EN61000-3-2 : 2014-Harmonics IEC61000-4-3:2006+A1:2007+A2:2010 RF EMI IEC61000-4-6:2013 Conduction Disturbance IEC61000-4-8:2009 Power Freq Magnetic Field Immunity FCC Title 47, Part 15. Subpart B: Oct.1.2011, Class B ANSI C63. 4-2009 ICES-003 Issue 5 VCCI V-3/2013.04 / V-4/2012.04 C-TICK AS/NZS CISPR 22:2009+A1:2010
	Complete Product	CE marking EN55022/EN55024 or Cispr22/Cispr24 FCC Part15 ICES003 ISSUE 5 (Canada)
Environmental	Temperature - Operating	0°C to 40°C
	Temperature - Non Operating	-20°C to 60°C
	Relative Humidity - Operating	10% to 80% (non-condensing 5 to 35°C)
	Relative Humidity - Non Operating	5% to 90% (non-condensing -20 to 60°C)
	Altitude - Operating	5000m
	Altitude - Non Operating	5000m
M/Connect Power Consumption	Notebook Hibernate	0.9W
	Notebook Sleep	1.5W
	Notebook On	3.4W
Environmental Data	• This product is in compliance with the Restrictions of Hazardous Substances (RoHS2) directive – 2011/65/EU. • This product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2012/19/EU.	
Accessories Included	USB 3.0 Cable, 1.0m, AC Power Cable 1.8m, AC Power Adapter	

available at:

humansolution®

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