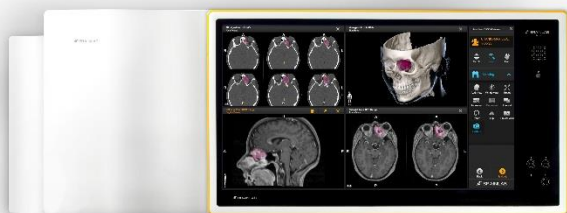# BRAINLAB

BUZZ ON-WALL Technical Specifications

● 42" Full HD Touch Display and optional additional display same size mounted on the wall

● Up to six viewing displays, thereof up to four touch displays, can be connected to the Buzz while simultaneously operated

ELECTRICAL REQUIREMENTS

Power Input:	100-240V; 50/60Hz
Power Consumption:	
Touch Display (incl. Transfer Lines and Feature Panel)	max. 186W
Computer (incl. Transfer lines)	max. 700W
Power supply for Transfer lines:	10x 5VDC

OPERATING, STORAGE AND TRANSPORT REQUIREMENTS

Temperature:

Operation	10°C to 35°C [50°F to 95°F]
Storage	-10°C to 45°C [14°F to 113°F]

Humidity:

Operation	30% to 75% (non condensing)
Storage	10% to 90% (non condensing)

Pressure:

Operation/Storage	700 hPa to 1060 hPa
MR conditional:	No (no installation in MR scanner room)

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INGRESS PROTECTION (IP)

On-Wall Display:	IP 21
Computer:	IP 20
Display front (USB/Power/Microphone):	Designed according IP44

IP2x= protection against medium foreign bodies (e.g. finger), IPx1= protection against dripping water
IP2x= protection against medium foreign bodies (e.g. finger), IPx0= no water protection
IP4x=protection against foreign grains >1mm (tools, wires), IPx4=protection against splash water

TOUCH DISPLAY AND FEATURE PANEL

Panel Size:	42"
Resolution:	Full HD (1920x1080)
Technology:	LCD panel (IPS panel with Edge-LED backlight)
Touch Screen:	P-cap based multi-touch (10 touch inputs)
White Luminance:	450cd/m²
Viewing Angle:	178° horizontal, 178° vertical
Contrast Ratio:	Type 1300:1
Color Depth:	8bit, 1.07 Billion colors
DICOM:	DICOM preset
Glass:	Tempered safety glass with antireflection
I/O connections:	2x USB 2.0
Audio Control:	Volume control via software/audio device
Speaker/Camera/Microphone:	Integrated in Feature Panel (main display)
Camera:	Records HD images min. 1280x720 pixels, HD stream in 30fps.
Speaker:	Volume max. 80dB
WLAN:	802.11 a/b/g/n, can be disabled

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COMPUTER

Processor:

Type	Intel Xeon E5-1650v3
Base Frequency/ Turbo Frequency	3.5 GHz / 3.8 GHz
Cores/ Cache	6 / 15MB

RAM Type/ Capacity: DDR4 / 16GB

Secondary Storage Type/ Capacity: SSD / 256 GB

Optical Disc Drive: CD/DVD writer

Operating System: Windows 10 64-bit IoT Enterprise 2015 LTSB

Graphics:

Type	2x Nvidia Quadro K2200
Frequency	1124 MHz
GPU RAM	4x4 GB

I/O Connections:

LAN	4x LAN 10/100/1000
USB	8x USB 2.0, 4x USB 3.0

Video Output (incl. Main display): 4x UHD DisplayPort, 2x FullHD DVI-I

Video Input: 1x S-Video, 1x Composite, 2x HD-SDI, 2x DVI-I
All six video signals can be displayed simultaneously

Mounting options: Copper cable: 2,5m or fiber cable up to 100m between display and computer

Audio: Line-Out / Line-In / Microphone-In

Power Supply for Transfer Lines: 10x 5VDC

TRANSFER LINE BOX (from Computer to Touch Display)

Type of transmission:	Fiber Optic Transfer Lines and Ethernet cable
Transmission Distance:	100 m *(3937 inch)*
Signal Type:	Display Port, USB
Mounting:	On display backside or behind computer cover

CLEANABILITY

| DISINFECTANT TYPE	EXAMPLE
Alcohol-based	Meliseptol, Mikrozid AF Liquid
Alkylamine-based	Incidin Plus 2%
Active oxygen-based	Perform
Aldehyde/ chloride-based	Antiseptica Combi

CERTIFICATION AND CLASSIFICATION

- ETL (Intertek)
- IEC 60601-1:2005 + Cor.:2006 + Cor.:2007 + A1:2012 (Ed. 3.1)
- AAMI ANSI IEC 60601-1-2:2007/(R)2012
- CSA C22.2#60601-1 Issued: 2008/02/01 Ed:2
- EN 60601-1-2:2007 + AC:2010
- IEC 60601-1-2: 2014 (Edition 4.0)
- Included in: IEC 60601-1-2: 2014 (Edition 4.0), no separate certificate required for Japan
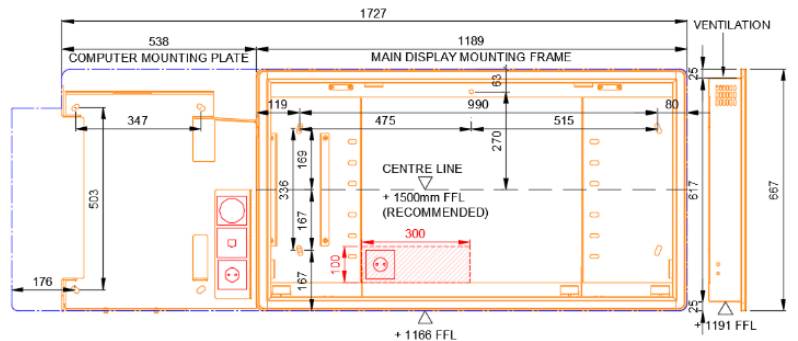- CE, RoHS, REACH, WEEE, POP

DIMENSIONS

BUZZ ON-WALL SYSTEM

Height:	667 mm *(26.26 inch)*
Width:	1866 mm *(73.43 inch)*
Depth total:	183 mm *(7.2 inch)*
Weight total:	60 kg *(132.27 lbs)*
	(34 kg Display + 26 kg Computer)
Weight w/o holder wall:	51,77 kg *(114.13 lbs)*
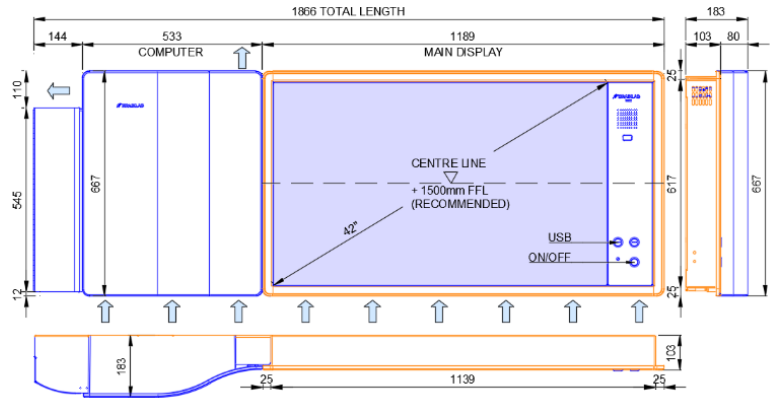
MAIN DISPLAY WITH FEATURE PANEL

Height:	667 mm *(26.26 inch)*
Width:	1189 mm *(46.81 inch)*
Depth total:	103 mm *(4.06 inch)*
Weight total:	34 kg *(75 lbs)*

COMPUTER WALL MOUNTED WITH COVER

Width:	677 mm *(26.65 inch)*
Height:	667 mm *(26.26 inch)*
Depth total:	183 mm *(7.2 inch)*
Weight total:	26 kg *(57.3 lbs)*

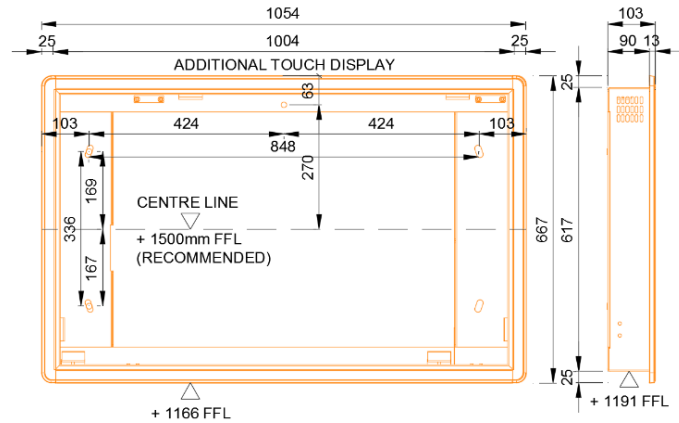# BRAINLAB
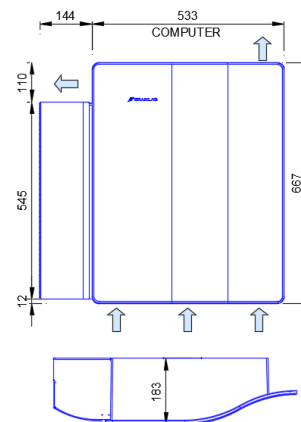
COMPUTER VERTICAL PLACEMENT

Width: 439 mm *(17.28 inch)*

Height: 165 mm *(6.5 inch)*

Depth total: 414 mm *(16.3 inch)*

Weight total: 16.5 kg *(36.38 lbs)*
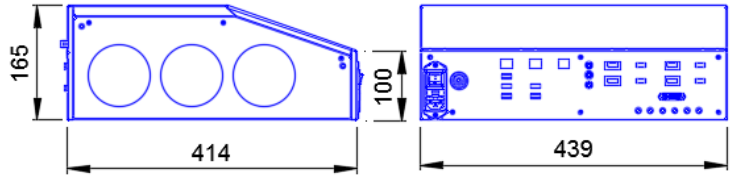
ADDITIONAL DISPLAY ON-WALL

Height: 667 mm *(26.26 inch)*

Width: 1054 mm *(41.5 inch)*

Depth total: 103 mm *(4.06 inch)*

Weight total: 30.2 kg *(66.58 lbs)*

UPGRADE FROM BUZZ 1.0
(new display + cover between display and computer)

Height: 667 mm *(26.26 inch)*

Width: 1921 mm *(75.63 inch)*

Depth total: 183 mm *(7.2 inch)*

Weight total: 60 kg *(132.27 lbs)*

                            (34 kg Display + 26 kg Computer)