

VK3500 SERIES

The evolution of arm mounting fanless IPCs with configurable Button Area



HIGHLIGHTS

- VESA 75/100 or top/bottom arm mounting
- Available in landscape and portrait version
- Powder coated die-cast aluminum chassis with anti-scratch treatment
- 15.6", 18.5", 21.5" and 24" TFT LCDs in Wide aspect ratio for landscape version (VK3500 and VK3500-BA)
- 21.5" and 24" TFT LCDs in Wide aspect ratio for portrait version (VK3500P-BA)
- Resolution up to Full HD
- Front panels with minimized aluminum (ALU) frame with resistive touchscreen (landscape version only)
- Front panels with minimized aluminum and glass True Flat (TFM) frame with multitouch projected capacitive touchscreen
- Full IP65 protection grade
- Available with configurable Button Area for the installation of $\varnothing 22$ hard-wired elements (VK3500-BA and VK3500P-BA)
- Dual core Celeron® and Intel® Core™ of 7th generation 15W Intel® Kaby Lake ULT platform
- Available with RVL technology for the remotation of the DVI-D and USB 2.0 signals up to 100m (optional)
- Available as industrial monitor: MK200 series
- Integrated UBIQUITY software for remote assistance via end-to-end VPN connection
- FactoryTalk® Optix™ software for HMI and Edge Computing applications (optional)

 UBIQUITY INSIDE

 FT Optix™ OPTIONAL

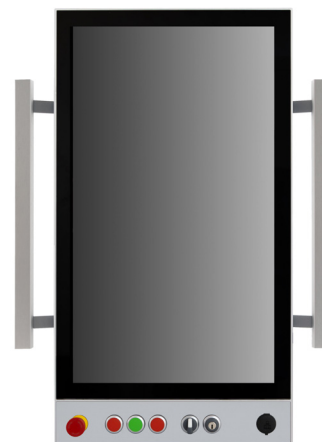
RVL  100m  OPTIONAL

  
 LISTED

ACCESSORIES

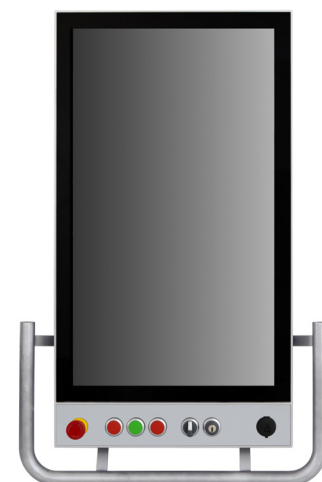
SIDE HANDLES

A kit of two anodized aluminum side handles is available to facilitate the system's positioning



PERIMETRAL HANDLE

An anodized aluminum perimetral handle is available to facilitate the system's positioning and to protect the operator from accidental impacts



KEYBOARD HOLDER KIT

A keyboard holder kit is available in aluminum painted RAL 9006 for the permanent installation of a keyboard and/or mouse at customer's choice



BUTTON AREA

HIGHLIGHTS

- Fully configurable according to customer specifications
- Frontally accessible for subsequent configuration changes and/or additions
- Hard-wired connection mode
- The number of elements that can be installed depends on the size of the display: up to 13 elements can be installed in the landscape version and up to 8 elements can be installed in the portrait version with 24" LCD (of which maximum 8 with hard-wired connection)
- The SIL3 E-stop push button has a separate hard-wired connection
- Elements wiring is brought to two terminal blocks, accessible from the rear



IP65 Ø22 ELEMENTS



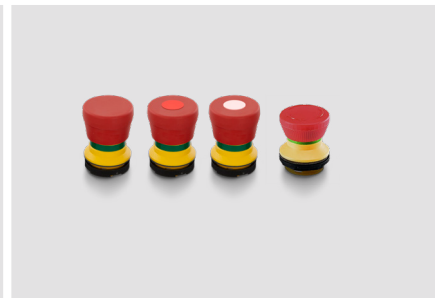
LED INDICATORS

- available in 5 colors (red, yellow, green, blue, white)



PUSH BUTTONS

- opaque version available in 2 colors (gray and black)
- translucent version available in 5 colors (red, yellow, green, blue, white)
- also with customizable insert



EMERGENCY STOP PUSH BUTTON SIL3

- with rotating or pulling unlock movement, with or without LED



ROTARY SELECTORS SWITCHES

- with key
- keyless LED illuminated
- with 1(90°) or 2(±40°, ±60°) positions (momentary or latching)



ADDITIONAL INTERFACES

- Gigabit Ethernet (RJ45)
- Transponder RFID reader/writer LF (125 kHz) and HF (13,56 MHz)
- USB 2.0 (Type-A)
- Knob with incremental encoder
- Buzzer

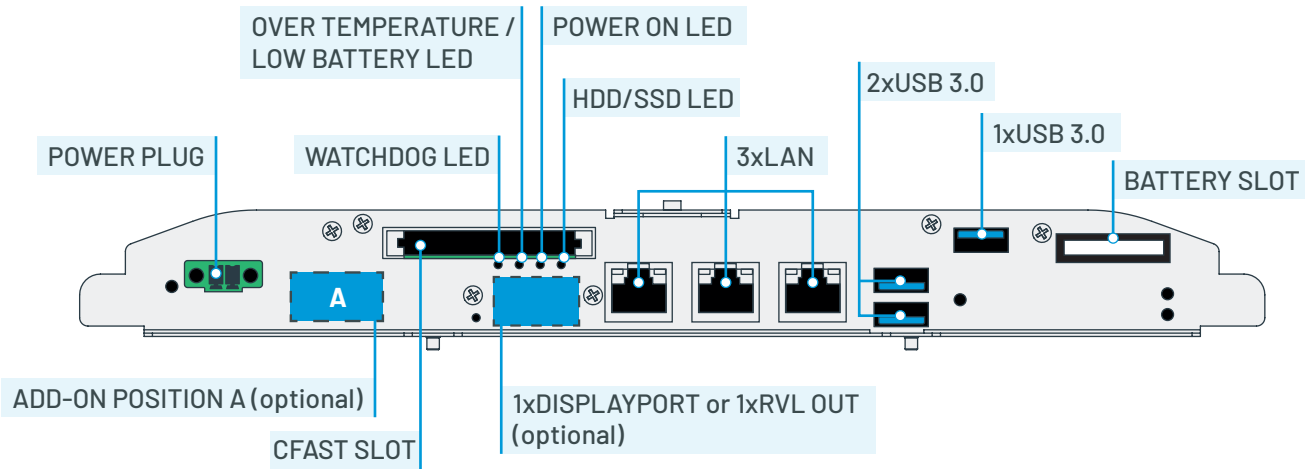


ELEMENTS FOR MANAGEMENT OF ATX MODE

- opaque version
- translucent version
- with key

VK3500 SERIES

I/O SHIELD AND ADD-ON BOARDS



POSITION A

- 1x RS232/422/485 (DB15M)
- 1x RS232/422/485 (DB15M) isolated

VERSIONS



VK3500-TFM



VK3500-BA-TFM



VK3500-ALU



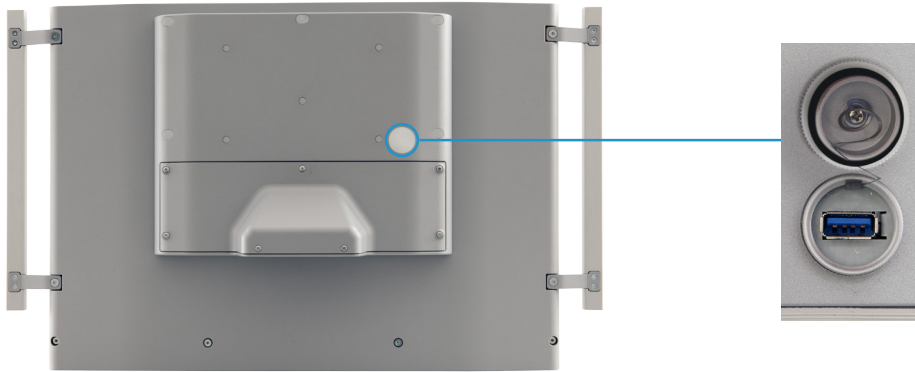
VK3500-BA-ALU



VK3500P-BA-TFM

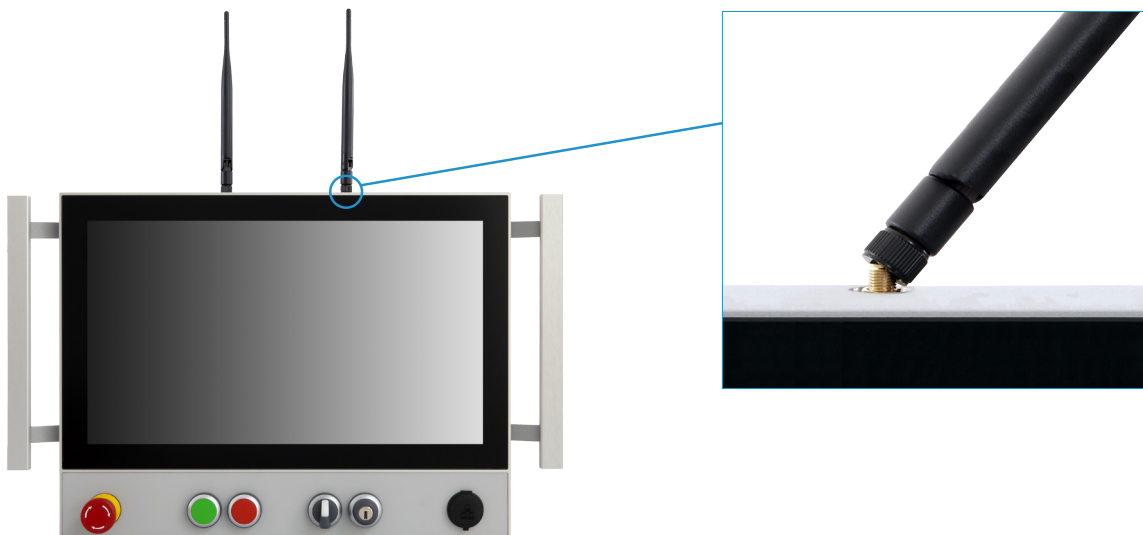
DETAIL - USB 3.0

Rear Access USB 3.0 (Type-A) with protection cap



DETAIL - STYLUS ANTENNAS

Stylus antennas with RP-SMA(M) connector



VK3500 SERIES

DIMENSIONS (VK3500 - ALU/TFM)

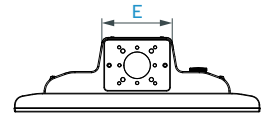
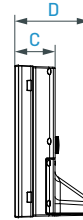
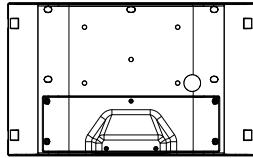
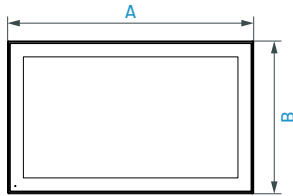
FRONT VIEW

REAR VIEW

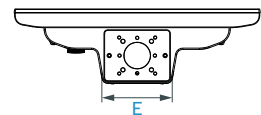
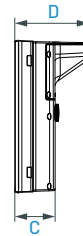
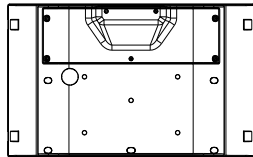
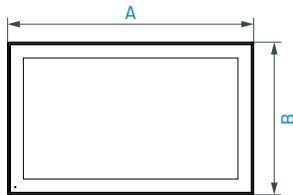
SIDE VIEW

BOTTOM VIEW

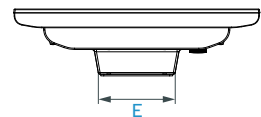
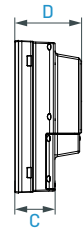
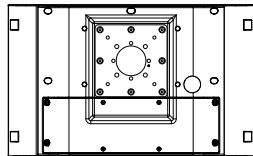
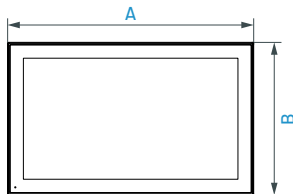
BOTTOM ARM MOUNTING



TOP ARM MOUNTING



VESA MOUNTING



LCD	A	B	C	D (ALU/ TFM)	E	F (WITH PERIME- TRAL HANDLE OR SIDE HAND- LES)	G (ONLY WITH PERIMETRAL HANDLE)	H (ONLY WITH PERIMETRAL HANDLE) (ALU/TFM)	I (ONLY WITH KEYBOARD HOLDER KIT)
15,6"W TOP/BOTTOM	396,3	245,8	65	120/120	113,4	487	291,3	126/126	190
15,6"W VESA	396,3	245,8	65	108/108	123,9	487	291,3	114/114	190
18,5"W TOP/BOTTOM	461,8	282,6	71	126/126	113,4	552,5	328	132/132	184
18,5"W VESA	461,8	282,6	71	114/113	123,9	552,5	328	120/119	184
21,5"W TOP/BOTTOM	528,8	320,2	75	130/130	113,4	619,5	366	136/136	180
21,5"W VESA	528,8	320,2	75	118/117	123,9	619,5	366	124/123	180
24"W TOP/BOTTOM	585,2	352,8	75	130/130	113,4	675,9	398	136/136	180
24"W VESA	585,2	352,8	75	118/117	123,9	675,9	398	124/123	180

DIMENSIONS WITH ACCESORIES (VK3500 - ALU/TFM)

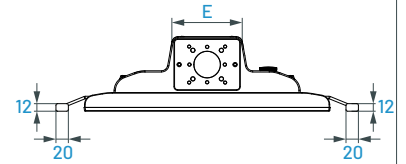
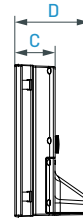
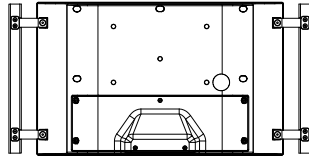
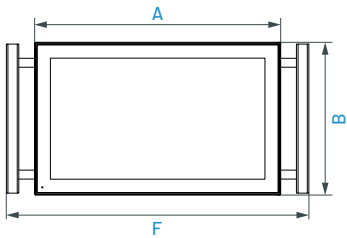
FRONT VIEW

REAR VIEW

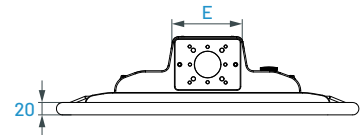
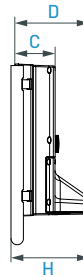
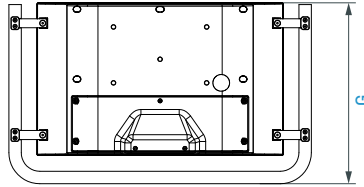
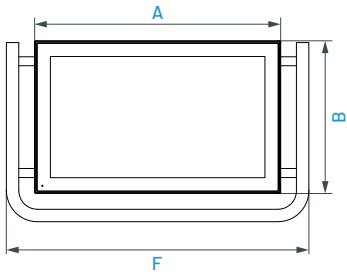
SIDE VIEW

BOTTOM VIEW

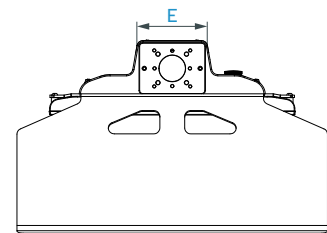
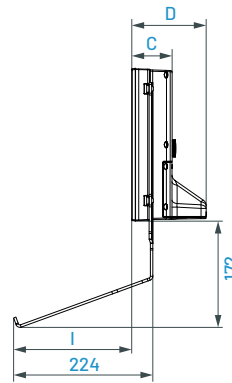
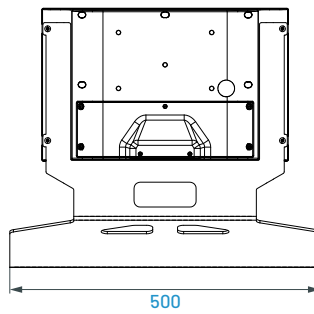
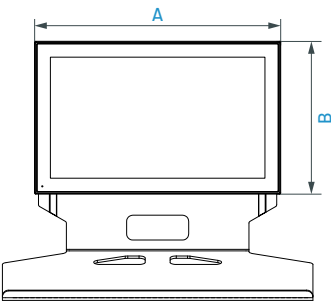
BOTTOM ARM MOUNTING - with side handles



TOP ARM MOUNTING - with perimetral handle



BOTTOM ARM MOUNTING - with keyboard holder kit



VK3500 SERIES

DIMENSIONS (VK3500-BA - ALU/TFM)

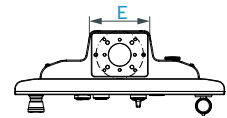
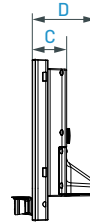
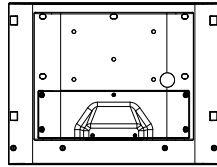
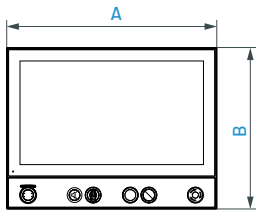
FRONT VIEW

REAR VIEW

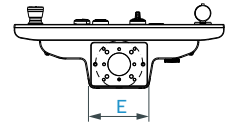
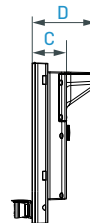
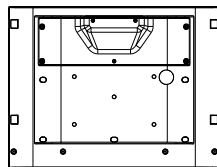
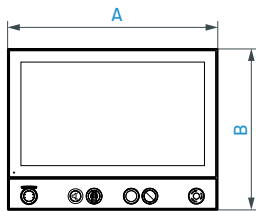
SIDE VIEW

BOTTOM VIEW

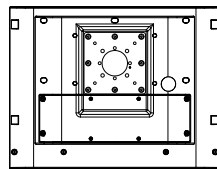
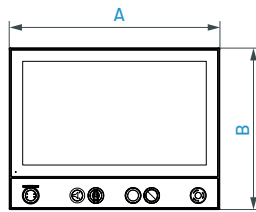
BOTTOM ARM MOUNTING



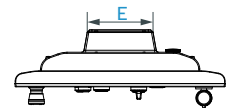
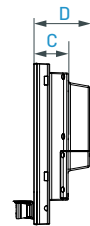
TOP ARM MOUNTING



VESA MOUNTING



G



LCD	A	B	C	D	E	F (WITH PERIMETRAL OR SIDE HAND- LES)	G (ONLY WITH PERIMETRAL HANDLE) (ALU/TFM)	H (ONLY WITH PERIMETRAL HANDLE) (ALU/TFM)	I (ONLY WITH KEYBOARD HOLDER KIT)
15,6"W TOP/BOTTOM	396,3	304,3	65	120	113,4	487	350/350	126/126	190
15,6"W VESA	396,3	304,3	65	107	123,9	487	350/350	114/114	190
18,5"W TOP/BOTTOM	461,8	341	71	126	113,4	552,5	386/384	132/132	184
18,5"W VESA	461,8	341	71	113	123,9	552,5	386/384	120/119	184
21,5"W TOP/BOTTOM	528,8	378,7	75	130	113,4	619,5	424/424	136/136	180
21,5"W VESA	528,8	378,7	75	117	123,9	619,5	424/424	124/123	180
24"W TOP/BOTTOM	585,2	411,3	75	130	113,4	676	456,5/456	136/136	180
24"W VESA	585,2	411,3	75	117	123,9	676	456,5/456	124/123	180

DIMENSIONS WITH ACCESORIES (VK3500-BA - ALU/TFM)

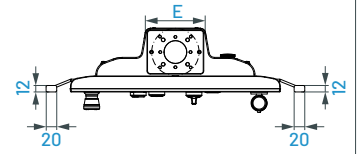
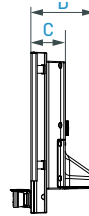
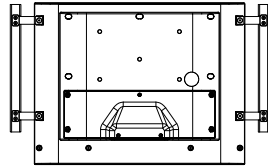
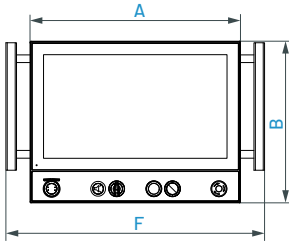
FRONT VIEW

REAR VIEW

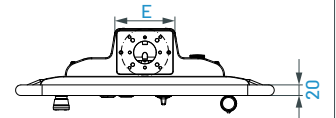
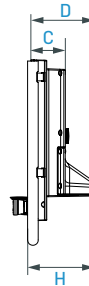
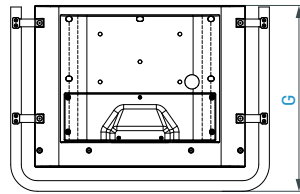
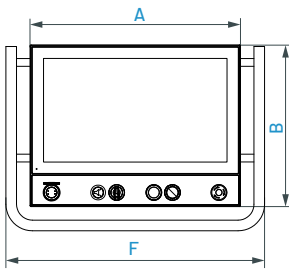
SIDE VIEW

BOTTOM VIEW

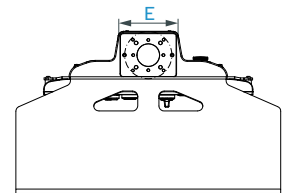
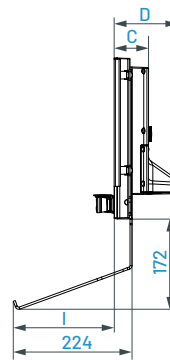
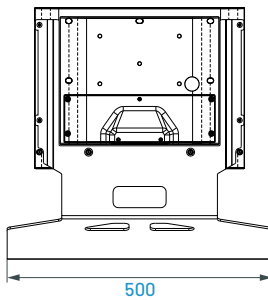
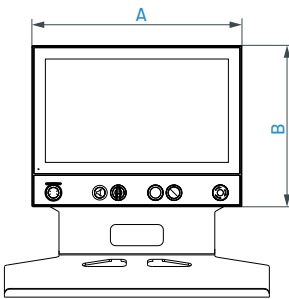
BOTTOM ARM MOUNTING - with side handles



TOP ARM MOUNTING - with perimetral handle



BOTTOM ARM MOUNTING - with keyboard holder kit



VK3500 SERIES

DIMENSIONS (VK3500P-BA - TFM)

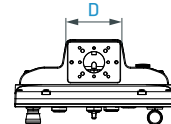
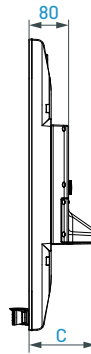
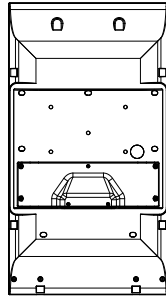
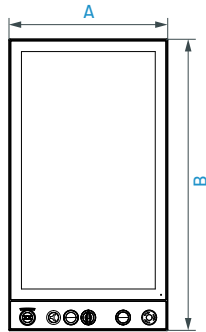
FRONT VIEW

REAR VIEW

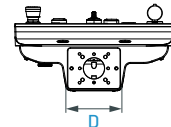
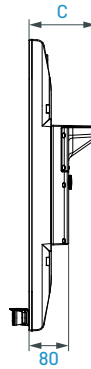
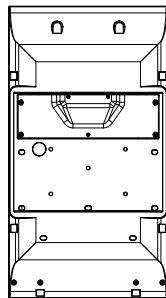
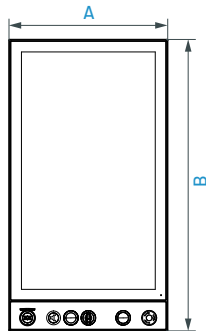
SIDE VIEW

BOTTOM VIEW

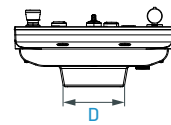
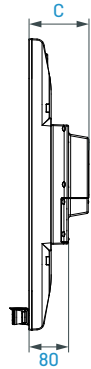
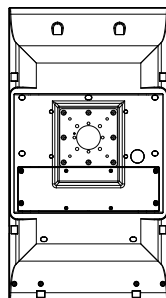
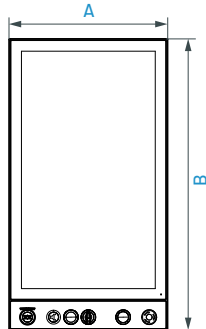
BOTTOM ARM MOUNTING



TOP ARM MOUNTING



VESA MOUNTING



LCD	A	B	C	D	E (WITH PERIMETRAL HANDLE OR SIDE HANDLES)	F (ONLY WITH PERI- METRAL HANDLE)	G (ONLY WITH PERI- METRAL HANDLE)	H (ONLY WITH KEY- BOARD HOLDER KIT)
21,5"W BOTTOM	320	587	136	113,5	410	218	142	133
21,5"W TOP	320	587	136	113,5	410	218	142	133
21,5"W VESA	320	587	121	124	410	218	127	133
24"W BOTTOM	353	644	136	113,5	443	246,5	142	132
24"W TOP	353	644	136	113,5	443	246,5	142	132
24"W VESA	353	644	121	124	443	246,5	127	132

DIMENSIONS WITH ACCESORIES (VK3500P-BA - TFM)

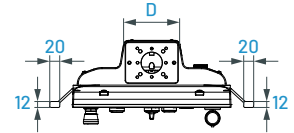
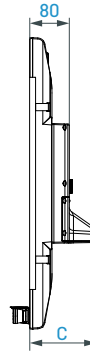
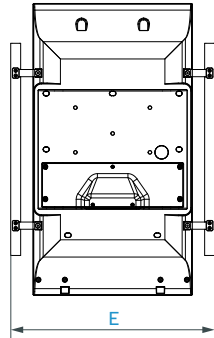
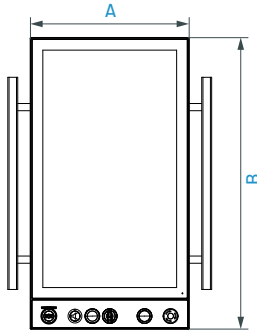
FRONT VIEW

REAR VIEW

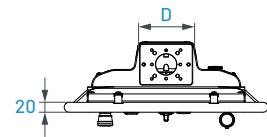
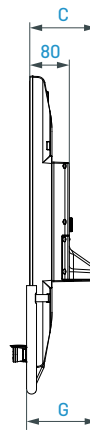
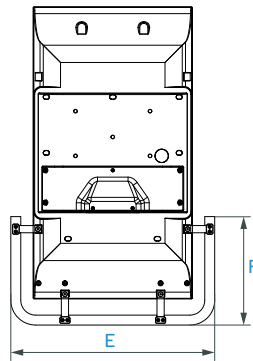
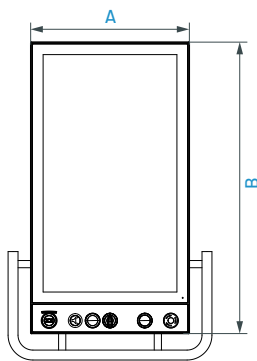
SIDE VIEW

BOTTOM VIEW

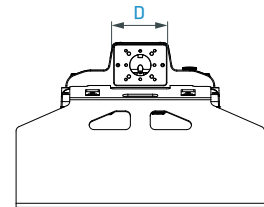
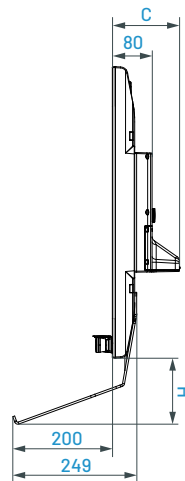
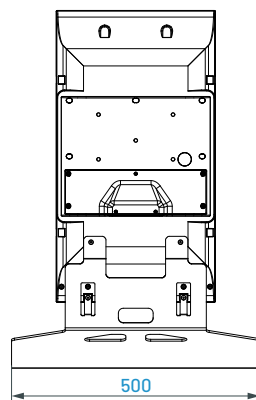
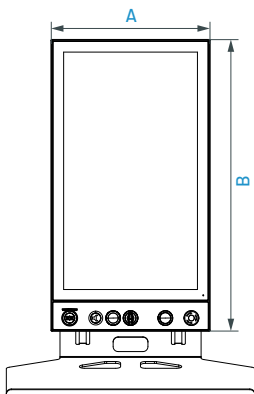
BOTTOM ARM MOUNTING - with side handles



TOP ARM MOUNTING - with perimetral handle



BOTTOM ARM MOUNTING - with keyboard holder kit



TECHNICAL DATA

	VK3500-BA-ALU	VK3500-BA-TFM	VK3500-ALU	VK3500-TFM	VK3500P-BA-TFM
LED BACKLIGHT TFT LCD	15.6" W - 1366x768 15.6" W - 1920x1080 18.5" W - 1366x768 18.5" W - 1920x1080 21.5" W - 1920x1080 24"W - 1920x1080				21.5" W - 1920x1080 24"W - 1920x1080
ORIENTATION	Landscape				Portrait
TOUCHSCREEN	Resistive 5 wires	P-CAP Multitouch	Resistive 5 wires	P-CAP Multitouch	P-CAP Multitouch
FRONT PANEL	Material	Aluminum	True Flat Aluminum	Aluminum	True Flat Aluminum
PROTECTION GRADE	IP rating	Full IP65			
	NEMA rating	UL Type 1, 4x (indoor only)		UL Type 1, 4x (indoor only) and 12	UL Type 1, 4x (indoor only)
CASE	Installation	VESA 75/100 or pole/suspension arm mounting system compatible with RITTAL CP40/ROLEC TARAPLUS/HASEKE ULT KUPPLUNG 48			
	Material	Aluminum alloy AN AB46400			
	Color	Anti-scratchable painted - RAL 9006			
	Accessories	Side handles, perimetral handle, keyboard holder kit			
BUTTON AREA (optional)	See dedicated section		-		See dedicated section
PROCESSOR (soldered on-board)	Intel® Celeron™ 3965U 2.20GHz • 64bit • 2 cores / 2 threads • 2MB Smart cache • 14nm Intel® Core™ i3-7100U 2.40GHz • 64bit • 2 cores / 4 threads • 3MB Smart cache • 14nm Intel® Core™ i5-7300U 2.60GHz (3.50GHz Turbo) • 64bit • 2 cores / 4 threads • 3MB Smart cache • 14nm Intel® Core™ i7-7600U 2.80GHz (3.90GHz Turbo) • 64bit • 2 cores / 4 threads • 4MB Smart cache • 14nm				
CHIPSET	Intel® Kaby Lake PCH-LP (Platform Controller Hub - Low Power) • Included into processor chip (SoC)				
VIDEO CONTROLLER	Intel® HD Graphics 610 integrated in Celeron™ 3965U • 300MHz/900MHz Intel® HD Graphics 620 integrated in Core™ i3 processors • 300MHz/1.00GHz Intel® HD Graphics 620 integrated in Core™ i5 processors • 300MHz/1.10GHz Intel® HD Graphics 620 integrated in Core™ i7 processor • 300MHz/1.15GHz DirectX 12 and OpenGL 4.5 support				
WATCHDOG	Programmable time period				
TPM	Intel® PTT (TPM integrated)				
SYSTEM MEMORY RAM	4GB or 8GB or 16GB (1 x SODIMM DDR4 module)				
MASS STORAGE	CFast	1x bootable CFast SATA III slot onboard with external access (up to 240GB)			
	M.2 SSD	1x onboard connector for direct insertion of M.2 2280 NVMe PCIe x2 SSD or M.2 2280 NVMe PCIe x4 SSD (up to 1TB) ¹			
INTERFACES	LAN	3x Gigabit Ethernet (RJ45)			
	USB	3x USB 3.0 (Type-A) • 1x USB 3.0 (Type-A) rear with protection cap			
	VIDEO (optional)	1x DisplayPort++ V1.2 or 1x RJ45 connector for RVL			
ADD-ON INTERFACES (optional)	Position A (max 1)	1 x RS232/422/485 (DB15M) 1 x RS232/422/485 (DB15M) isolated 1 x Gigabit Ethernet (RJ45)			
CONNECTIVITY (optional)	1x Wi-Fi module (IEEE 802.11 a/b/g/n/ac, 2.4GHz/5GHz • Bluetooth 5.1)				
POWER SUPPLY INPUT	24VDC (18÷32VDC) isolated				
POWER SUPPLY (optional)	ATX	Kit for ATX mode power supply (internal cable and push button on button area)			
BATTERY	1x CR2032 Removable front access				
O.S. CERTIFIED	Microsoft Windows 10 IoT Enterprise 2019 64bit				
OPERATING TEMPERATURE	0°C ÷ 50°C				
STORAGE TEMPERATURE	-10°C ÷ 60°C				
OPERATING/STORAGE RELATIVE HUMIDITY	20% ÷ 90% RH (non-condensing)				
APPROVALS	CE RoHS UKCA cULus Listed				

- The M.2 NVMe PCIe x4 SSDs show actual performance that differs from the manufacturer's claims, as they are driven via 2 lanes (socket M.2 PCIe x2). Data transfer rates are about half of the declared value (comparable to M.2 NVMe PCIe x2 SSDs).