

USER'S MANUAL

AOD/ATS 190 metal case (touch) computer
Type: All in one A1Touch H310-I5-9400/AOD190-.....



Standard type,
also available as:



19 inch Rackmount



Black panelmount



RVS panelmount



Rear Mount



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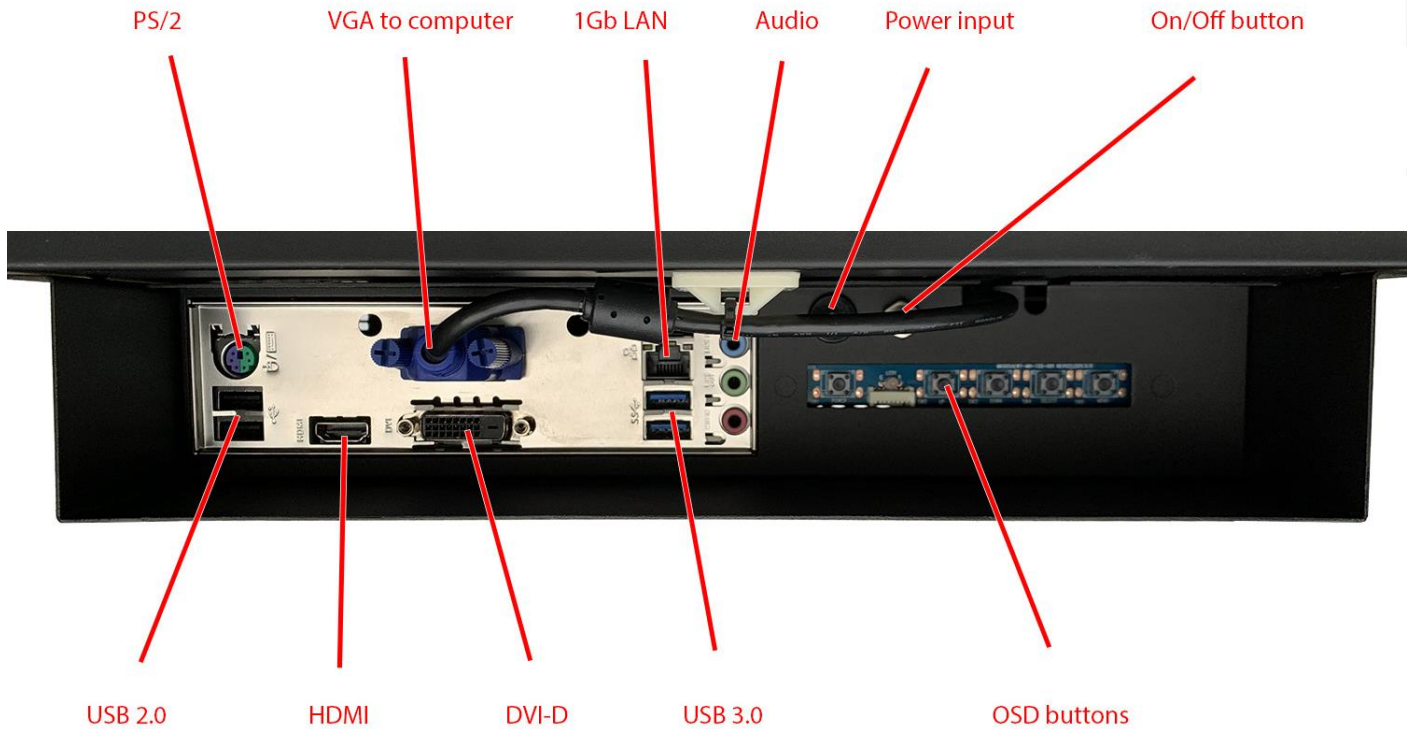
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1.(Touch) Computer User's Manual

1.0 Connection To the Computer:



1.1 Installation

- Mount the unit in position as desired. You can adjust the connection for your PC environment via I/O panel of computer.
- Plug the DC cord of the AC adapter to the power connector and the plug the end of AC adapter to an electrical outlet socket(110V/220V)
- Connect DC cord of adapter 12V DC (option 24v or 220v) to the computer

1.2 Features

- AOD190 has 19" LCD and support up to 75Hz.
- Mini ITX format Computer with 6 core 6 threads Intel Core i5-9400 2.9 Ghz processor Active cooled
- Second connection external monitor via Displayport (Digital) possible.
- Microphone and speaker integration possible (option).
- You can adjust brightness, contrast, horizontal & vertical positions by OSD
- Menus and use auto adjust function for instant adjustment.
- High-qualified LCD Controller inside
- Robust design and power saving mode
- 100% compatible with Windows PC environment without the installation of driver CD or software program.

1.3 Plug and Play Function

AOD150 is installed with OS on demand. These units are completely installed with activation completed and with latest drivers for plug and play functionality.

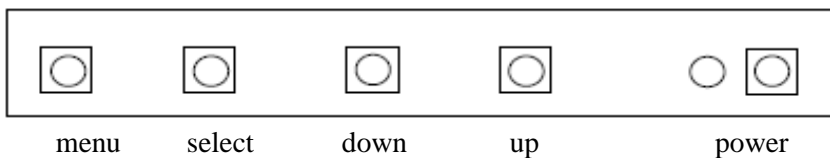
1.4 Safety Precaution

We strongly recommend that you carefully read this User's Manual before operating your computer. FOLLOW INSTRUCTIONS in this manual.

Please read and comprehend all using directives before use this machine.

- **Power**
Use the type of power indicated on the marking label.
- **Adapter**
Only use an adapter designed of the LCD monitor.
- **Plug**
Do not remove any of the prongs of the monitor's three-pronged power plug.
Disconnect the power plug from the AC outlet if you will not use it for an indefinite period of time.
- **Power and extension cord**
- Use the proper power cord with ground conductor
Do not overload wall outlets or power cords. Ensure that the total of all units plugged into the wall outlet does not exceed 7 amperes.
Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
- **Care and maintenance**
Slots and openings in the cabinet are provided for ventilation. Do not block or cover these openings. Do not push objects of any kind into cabinet slots or openings. The screen surface is easily scratched. Do not use paper towels to clean the display. Avoid touching it with your fingers, pens, or pencils.
- Turn off the AC adapter and the monitor over long periods when not in use.

1.5 OSD (On-Screen-Menu)



Button	Function	Status
POWER	Power ON or OFF	ON/OFF
LED	Indicate working status	Green: On Red: Stand-by Orange: No signal
UP	Launch OSD Menu or add value	Move to OSD Menu
DOWN	Launch OSD Menu or add value	Move to OSD Menu
SELECT	Select OSD Menu	
MENU	On /Off OSD Menu	

1.6 OSD Menu

ITEM	Sub Menu	Description	Value
Color	Contrast	0 ~ 100	50
	Brightness	0 ~ 100	100
	Color Adjust	Adjust color of red, green, blue	
	Color Temp	9300,6500,5800, sRGB, User	USER
Image Setting	Clock	0 ~ 100	50
	Phase	0 ~ 100	50
	Sharpness	0 ~ 4	2
	H Position	0 ~ 100	50
	V Position	0 ~ 100	50
OSD Menu	OSD H. Pos.	0 ~ 100	50
	OSD V, Pos.	0 ~ 100	50
	OSD timer	3 ~ 60	10
	Language	English,Francais,Deutsh, Espanol	English
Signal Source	-	D-SUB, DVI, Auto Search	Auto Search
Audio	-		
Setup	Reset	Reset to factory settings	
	Backlight	0 ~ 100	100
	SET ID	ON, OFF	ON
	Aspect Ratio	Fixed Aspect, 4BY3, 5BY4, Full Screen	Full Screen

1.7 Specifications

Monitor specs:	
Color:	Black powder Coated (other colors on request)
Model:	19 inch XGA TFT LCD Monitor
Type:	19 inch Color Active Matrix TFT LCD (LG LM190EOA)
Resolution (max):	1280 x 1024 (SXGA)
Color:	16,7 million
Pixel:	0.0976 x 0.2928 mm
Brightness:	300 cd/m ²
Contrast ratio:	800:1
Viewing angle:	89°/89° horizontal & 89°/89° vertical
Response time	8 ms
Active area:	376,32 (H) x 301,056 (V) mm

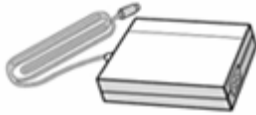
Computer specs:		
Type computerboard:	Intel H310-I	
Chipset:	Intel® H310	
Processor:	Processor Intel Core i5 9400, 55W, 9th gen. 2.9Ghz, 6 core, 6 thread, UHD Graphics 630,	
Memory	Supported memory types	DDR4-SDRAM
	Amount of memory slots	2
	Memory slot type	DIMM
	Memory Channel	Dual
	Non-ECC	yes
	Supported memory clock speeds	2133,2400,2666 MHz
	Maximum internal memory	32 GB
	Not gebufferd memory	Ja
Bios	BIOS type	UEFI AMI
	BIOS-memory size	128 Mbit
	ACPI version	6.1
	Clear CMOS jumper	Ja
	Plug and play	Ja
	System Management BIOS (SMBIOS) version	3.1
Graphics	Maximum memory grafical adapter	1024 MB
	Built-in grafical adapter	Ja
	Grafical adapter-family	Intel
	Maximum resolution	4096 x 2160 Pixels
Network	Ethernet LAN	yes
	Ethernet interface type	Gigabit Ethernet
	LAN controller	Realtek RTL8111H
	Wi-Fi	No (option)
	Bluetooth	No (option)
Audio	Realtek® ALC887 8-Channel High Definition Audio CODEC	
IDE, SATA, Flash	4 x SATA3 Connectors, 1 x M.2 Socket 1 with E key, type 2230 for Wi-Fi/BT devices support or PCIE/USB mode	
RAID:	No	
Operating system	Windows 7, 8, 10 Linux, Win CE, Win7emb, Win10IOT.	
I/O connections back:	USB 3.1 Gen1 (blue) Type-A up to 5Gbps	: 2
	USB 2.0	: 2
	Ethernet LAN (RJ-45)-ports	: 1
	HDMI-ports	: 1
	DVI-D ports	: 1
	S/PDIF-out	: yes
	Audio jack(s) – Mic – Line in – Line out	: 3
	PS/2 keyboard/mouse combo port(s)	: 1
Internal I/O:	PCI Express x16 (Gen 3.x) slots	: 1
	USB 2.0 connections	: 1
	USB 3.1 Gen 1 (up to 5Gbps) connectors	: 1
	Amount of SATA 6Gb/s connectors	: 4
	Audioconnector	: yes

General:	
Energy requirements	35W normal use; 80 W max.; 5 W stand by.
Power	Power supply 84 W External
Weight	4 Kg
Mounting:	VESA 100mm; (Bracket/ stand is optional; See: mounting brackets)
Dimensions system (BxHxD)	424x350x88 mm (model without bezel)
Options:	
Functionality:	With or without touch
- without touch:	Acrylic or glass
- with touch for option "Mounting behind glass = YES": Type of Touch:	Projected Capacitive A1touch and Zytronic. Not sure what to use? Call us at +31 (0)45 5748190 or send us contactform
+ Projected Capacitive (A1touch):	-For glass upto 5mm or Acrylic glass upto 2.5mm. -Touchable with finger, glove and pcap stylus. -10 points touch -activation force less than 1 gramm.
+ Projected Capacitive (Zytronic):	-For glass upto 20mm or Acrylic glass upto 10mm. -Touchable with finger, glove and pcap stylus. -2 points touch -activation force less than 1 gramm.
- with touch for option "Mounting behind glass = NO":	5 wire resistive, Surface Accoustic Wave or Projected Capacitive
- 5 wire resistive :	-Standard non-glare. -Touchable with finger, glove and stylus. -Single touch -activation force less than 40 gramm.
- SAW:	-Standard glare. -Touchable with finger and glove. -Single touch -activation force less than 85 gramm.
- Projected Capacitive:	-Standard glare. -Touchable with finger, glove and pcap stylus. -10 points touch -activation force less than 1 gramm.
External protection:	Standard IP44 or IP65 or higher (not for SAW)
Memory capacity:	No memory (standard), 2, 4 or 8 Gb SoDimm
Storage capacity Sata:	No storage (standard), Harddisk 500 Gb or SSD in 120/240/480 GB or 1TB.
Operating system:	NO OS (standard), Win7 embedded WSP7 multilingual, Win7Pro, Win8Home and Pro, Win10Home or Pro, Windows 10 IOT (embedded), Linux
Input equipment:	None (standard) or wireless keyboard/mouse
Acoustic options:	No speakers/ microfone (standard), Soundbar 2x2Watt integrated, Soundbar + microfone integrated.

1.8 Contents of Package



Computer system



AC/DC Adapter



Power cord



Other Cables (option)

1.9 Troubleshooting

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER.
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

- The system does not respond after you turn on the system :
 - Make sure that the monitor is turned on via OSD button.
 - Turn off the power and check the system's power cord, AC adapter, for proper connection.
- Appear the " No Input the Signal" :
 - Check the connecting of the vga cable on I/O panel computer and power on computer.
- Appear the " Input Not the Supported" :
 - Input signal are insuperable, reset the video mode and adjust video driver settings.
- The appearance is not at the screen center.:
 - Use "AUTO ADJUST", refer to the Controls section.
- The characters on the screen are too dim or too bright
 - Choose fit color temperature, use "AUTO COLOUR ADJUST or manually adjust "RGB ADJUSTMENT, refer to the Control section.