

# USER'S MANUAL

AOD/ATS 190 metal case (touch) computer  
Type: J3455



Standard type,  
also available as:



PCAP panelmount 19 inch



Rackmount



Black panelmount



RVS panelmount



Hinges



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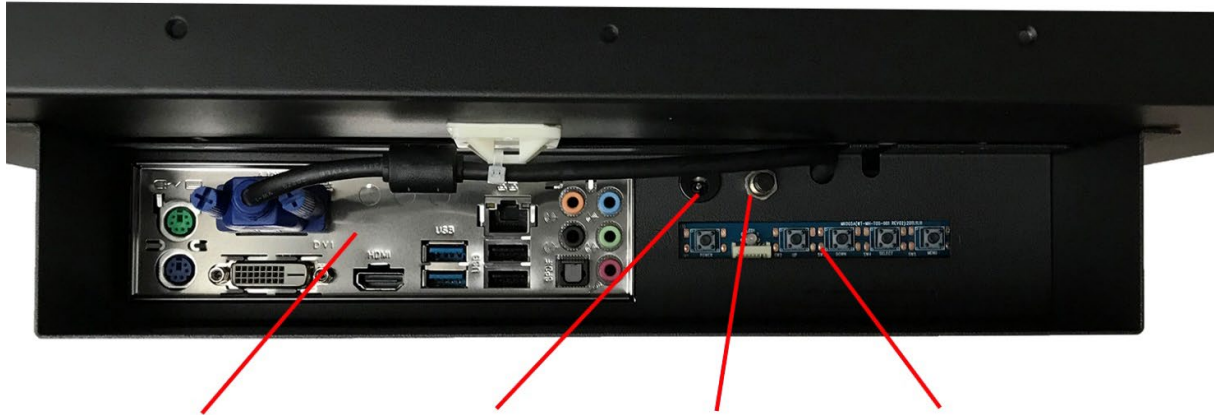
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# 1. (Touch) Computer User's Manual

## 1.0 Connection To the Computer:



I/O panel computer

Power input DC

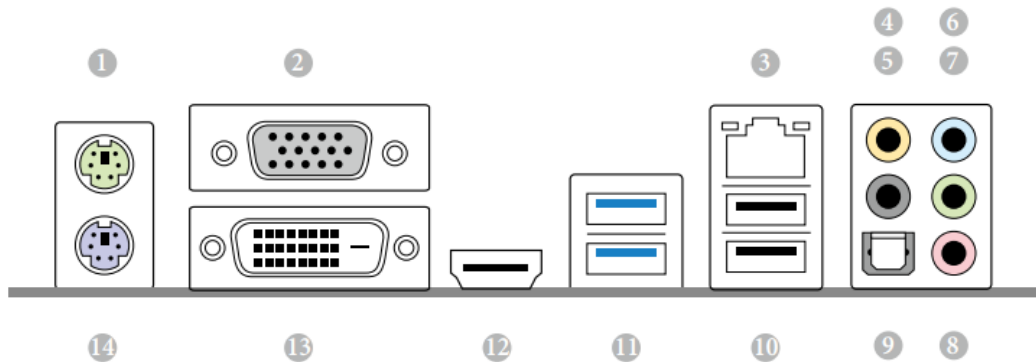
Power button

OSD Control

## 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:



No.	Description	No.	Description
1	PS/2 Mouse Port	8	Microphone (Pink)
2	D-Sub Port	9	Optical SPDIF Out Port
3	LAN RJ-45 Port*	10	USB 2.0 Ports (USB45)
4	Central / Bass (Orange)	11	USB 3.0 Ports (USB3_23)
5	Rear Speaker (Black)	12	HDMI Port
6	Line In (Light Blue)	13	DVI-D Port
7	Front Speaker (Lime)**	14	PS/2 Keyboard Port

- 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 quad core Intel J3455 upto 2.3 Ghz processor Passive cooled !
- Second connection external monitor via DVI (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

AOD190 is installed with OS on demand. These units are completely installed with activation completed and with latest drivers for plug and play functionality.

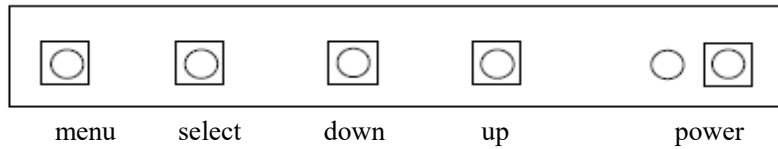
## 1.4 Safety Precaution

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.

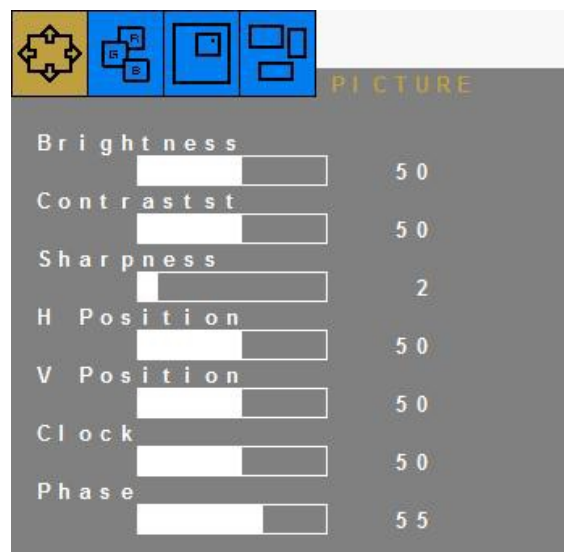
- **Power**  
Use the type of power indicated on the marking label.
- **Adapter**  
Only use an adapter designed of the LCD monitor.
- **Plug**  
Do not remove any of the prongs of the monitor's three-pronged power plug.  
Disconnect the power plug from the AC outlet if you will not use it for an indefinite 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	Hot Key
POWER	Power ON or OFF		
LED	Indicate operation status	Green : Normal operation Red : Off Mode Amber : No valid input, Sleep mode Green Blinking: No Signal	-
UP	Select next menu item Increase slider value		Auto Configuration on no menu status
DOWN	Select previous menu item Decrease slider value		Auto Configuration on no menu status
SELECT	Select Highlighted function		Input Source Change on no menu status
MENU	On /Off OSD Menu		

## 1.6 OSD Menu



## OSD STRUCTURE

ITEM	Sub Menu	Description	Value	
Picture	Brightness	Adjust the backlight level of screen	50(0~100)	
	Contrast	Increase/ decrease picture contrast	50(0~100)	
	Sharpness	Control the clarity of details of pictures	2(0 ~ 4)	
	H Position	Adjust picture horizontal position	50(0~100)	RGB ONLY
	V Position	Adjust picture vertical position	50(0~100)	
	Clock	Adjust picture width	50(0~100)	
	Phase	Adjust picture focus quality	30(0~100)	
Color	Color Status Management	Select the color of picture mode	User(User, Warm, Normal, Green)	
	Red	Adjust color of red rate	50(0~100)	RGB ONLY
	Green	Adjust color of green rate	50(0~100)	
	Blue	Adjust color of blue rate	50(0~100)	
	Auto Color	Auto color calibration	To Start	
OSD	Language	Select OSD menu language	English(English, Deutsh, Francais, Italiano, Espanol,	
	H Position	Adjust the OSD horizontal position	50(0~100)	
	V Position	Adjust the OSD vertical position	50(0~100)	
	Transparency	Select the transparency of the OSD	33 (0~100)	
	OSD Time	Adjust the OSD menu timeout	10(3~30)	
SETUP	Source	Select the input signal Source	RGB, DVI, AUTO	
	Factory reset	Reset to factory settings	To Start	
	Aspect	On/ Off the fit to screen	Off(On/Off)	
	Backlight DIM	On/ Off the backlight Dimming(PWM)	Off(On/Off)	
	Set ID	On/ Off the RS232 control	Off(On/Off)	Optional
	Volume	Adjust the audio volume	62(0~100)	Optional
	Mute	On/ Off the audio output	Off(On/Off)	Optional

## 1.7 Specifications

**Name:** AOD / ATS 19" (touch) Computer J3455

### 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 <sup>2</sup>
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 J3455 Quad core upto 2.3 Ghz, passive cooled
Chipset	No seperate chipset
Memory	2 x DDR3/DDR3L SO-DIMM Slots
Bios	<ul style="list-style-type: none"><li>- 64Mb AMI UEFI Legal BIOS with GUI support</li><li>- Supports Plug and Play</li><li>- ACPI 5.0 compliant wake up events</li><li>- Supports jumperfree</li><li>- SMBIOS 3.0 support</li></ul>
Processor	Intel J3455 Quad core upto 2.3Ghz processor
Flashmodule/ Harddisk	Sata SSD and SATA Harddisk possible
Graphics	<ul style="list-style-type: none"><li>- Integrated Intel® HD Graphics 500: 12 EUs inside (Up to 750MHz)</li><li>- DirectX 12, Pixel Shader 5.0</li><li>- Three graphics output options: D-Sub, DVI-D and HDMI</li><li>- Supports Triple Monitor</li><li>- Supports HDMI 2.0 with max. resolution up to 4K x 2K (4096x2160) @ 60Hz</li><li>- Supports DVI-D with max. resolution up to 1920x1200 @ 60Hz</li><li>- Supports D-Sub with max. resolution up to 2048x1536 @ 60Hz</li><li>- Supports Auto Lip Sync, xvYCC and HBR (High Bit Rate Audio) with HDMI 2.0 Port (Compliant HDMI 2.0 monitor is required)</li><li>- Supports HW Accelerated Decoders: H.264 @ level 5.2, HEVC (H.265) 10b @MP level 5.1 (GPU accelerated), JPEG, VP8, VP9</li><li>- Supports HDCP with DVI-D and HDMI 2.0 Ports</li><li>- Supports Full HD 1080p Blu-ray (BD) playback with DVI-D and HDMI 2.0 Ports</li></ul>
LAN (RJ-45)	<ul style="list-style-type: none"><li>- PCIE x1 Gigabit LAN 10/100/1000 Mb/s</li><li>- Realtek RTL8111GR</li><li>- Supports Wake-On-WAN</li><li>- Supports Wake-On-LAN</li><li>- Supports Lightning/ESD Protection (ASRock Full Spike Protection)</li><li>- Supports LAN Cable Detection</li></ul>

Audio	<ul style="list-style-type: none"> <li>- Supports Energy Efficient Ethernet 802.3az</li> <li>- Supports PXE</li> <li>- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec)*</li> <li>- Premium Blu-ray Audio support</li> <li>- Supports Surge Protection (ASRock Full Spike Protection)</li> <li>- ELNA Audio Caps</li> </ul>
IDE, SATA, Flash	2 x SATA2 3.0 Gb/s Connectors, supporting NCQ, AHCI and Hot Plug
Hardware Monitor + Power Management	Temperature, Voltage, Case open function, Watch Dog timer (manufacturing option)
Operating system	Windows 7, 8, 10 Linux, Win CE, Win7emb, Win10IOT.
I/O system:	<ul style="list-style-type: none"> <li>- 1 x PS/2 Mouse Port</li> <li>- 1 x PS/2 Keyboard Port</li> <li>- 1 x D-Sub Port (occupied)</li> <li>- 1 x DVI-D Port</li> <li>- 1 x HDMI Port</li> <li>- 1 x Optical SPDIF Out Port</li> <li>- 2 x USB 2.0 Ports (Supports ESD Protection (ASRock Full Spike Protection))</li> <li>- 2 x USB 3.1 Gen1 Ports (Supports ESD Protection (ASRock Full Spike Protection))</li> <li>- 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED)</li> <li>- HD Audio Jacks: Side Speaker / Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone</li> </ul>
Internal I/O:	<ul style="list-style-type: none"> <li>- 1 x PCI Express 2.0 x1 Slot</li> <li>- 1 x M.2 Socket (Key E), supports type 2230 WiFi/BT module</li> <li>- 1 x COM Port Header</li> <li>- 1 x TPM Header</li> <li>- 1 x Chassis Intrusion and Speaker Header</li> <li>- 1 x CPU Fan Connector (3-pin)</li> <li>- 1 x Chassis Fan Connector (3-pin)</li> <li>- 1 x 24 pin ATX Power Connector</li> <li>- 1 x Front Panel Audio Connector</li> <li>- 2 x USB 2.0 Headers (Support 3 USB 2.0 ports) (Supports ESD Protection (ASRock Full Spike Protection))</li> <li>- 1 x USB 3.1 Gen1 Header (Supports 2 USB 3.1 Gen1 ports) (Supports ESD Protection (ASRock Full Spike Protection))</li> </ul>
Energy requirements	35W normal use; 80 W max.; 5 W stand by.
Power	Power supply 84 W External
Weight	5 Kg
Mounting:	VESA 100mm; (Bracket/ stand is optional; See: <a href="#">mounting brackets</a> )
Dimensions system(B x H x D)	424x350x88 mm (model without bezel)
<b>Options:</b>	
Functionality:	With or without touch
- without touch:	Acrylic or glass
- with touch for option	
'Mounting behind glass = YES':	Projected Capacitive A1touch and Zytronic
Type of Touch:	Not sure what to use? Call us at +31 (0)45 5748190 or send us <a href="#">contactform</a>

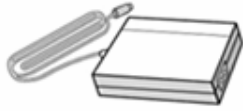


+ Projected Capacitive (A1touch):	-For glass upto 5mm or Acrylic glass upto 2.5mm. -Touchable with finger, glove and pcap stylus. -10 points touch -activation force less than 1 gramm.
+ Projected Capacitive (Zytronic):	-For glass upto 20mm or Acrylic glass upto 10mm. -Touchable with finger, glove and 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 multilangual, Win7Pro, Win8Home and Pro, Win10Home or Pro, Windows 10 IOT (embedded), Linux
Input equipment:	None (standard) or wireless keyboard/mouse
Accoustic options:	No speakers/ microfone (standard), Soundbar 2x2Watt integrated, Soundbar + microfone integrated.

## 1.8 Contents of Package



Computer system



AC/DC Adapter



Power cord



Drivers cd



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.