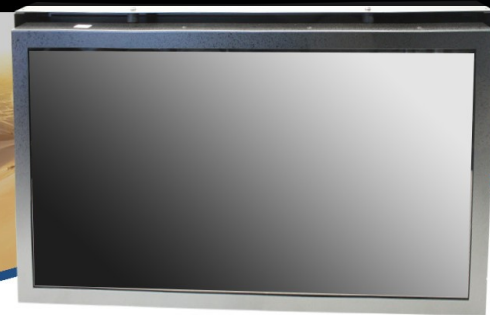


MILITARY CHASSIS LCD DISPLAY

Chassis LCD Display for Airborne application LCD Panel, 23.8"-3840x2160, LED-300nits VGA+2*HDMI input ports, with M12 metal type connector Handmade cables with heat-shrinkable PE tubing on display end Projected Capacitive Touch, USB interface

Model: EMCMW2380-4K-PCAP-V1

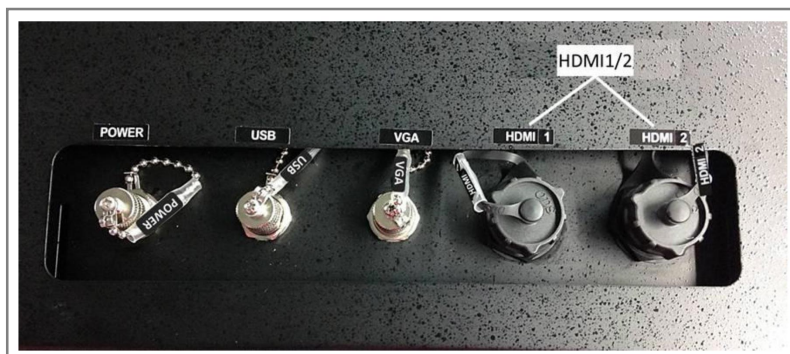


FEATURES:

- Modular mechanism design provides flexible product configuration and easy maintenance.
- Optional to built-in touch screen for interactive application.
- Available with auto-brightness sensor offers application in day and night.
- VGA connector with optional AV,SV,AV-Looping
- Complete custom design/solution for OEM customers

SPECIFICATION:

LCD Panel	23.8"
Resolution	3840x2160
Brightness	LED-300nits
Signal Input	VGA+2*HDMI signal input ports, with M12 metal type connector Handmade cables with heat-shrinkable PE tubing on display end *** Note: Only HDMI1 supports 3840x2160@60Hz, other inputs (VGA & HDMI2) support FHD@60Hz***
Touch	Projected Capacitive Touch, USB interface
Color	Black
Temperature	Working Temp(0~50°C), Storage Temp(-10~60°C)
Mounting	VESA 100x100 mm (Extra Mounting-BK with Damper)
Power	12 & 28VDC input with Terminal Block [MIL-STD-704E]
MIL Specs	EMI / EMC: MIL-STD-461E Airborne application Vibration / Shock: MIL-STD-810

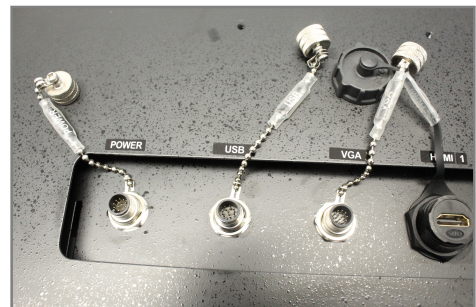
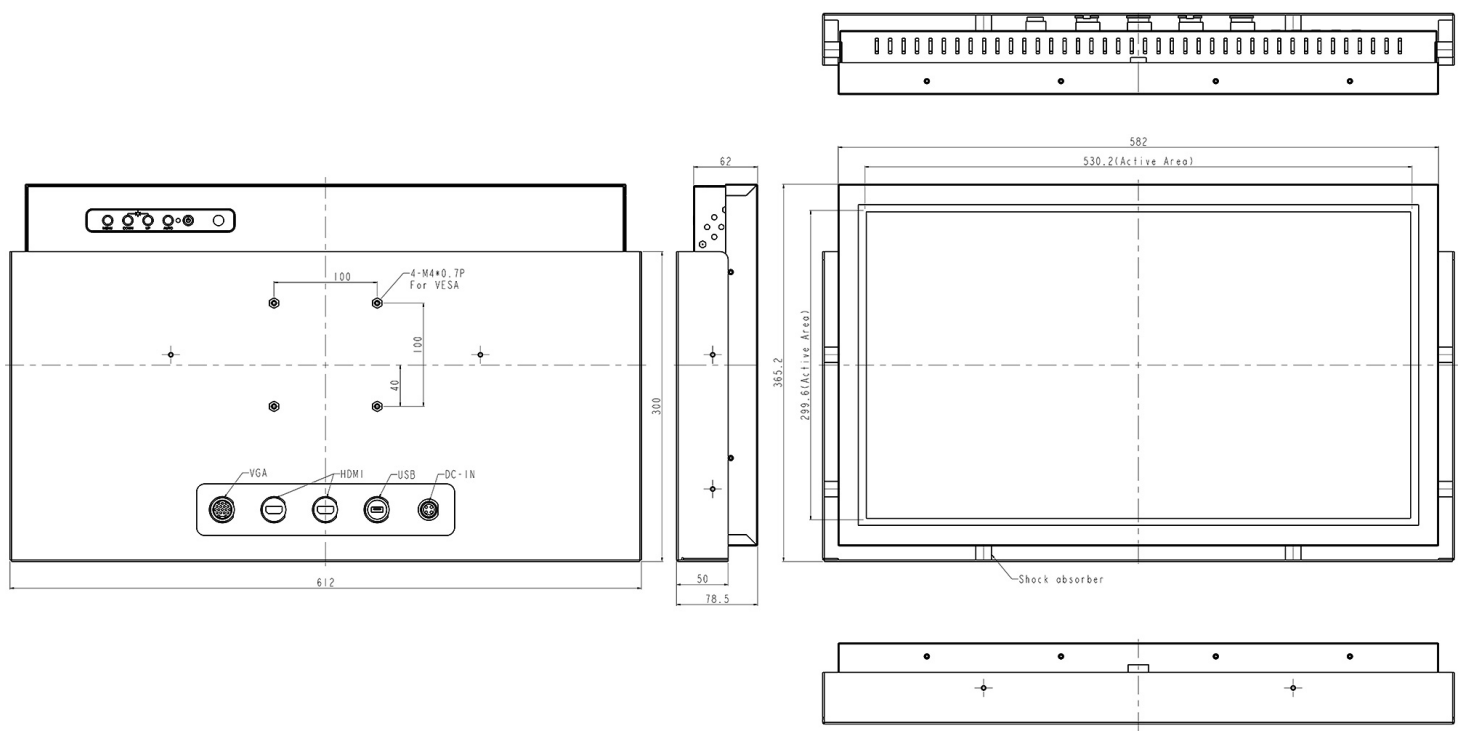


Power Input: 12VDC to 28VDC, 30 Watts
HDMI 1: 3840x2160@60Hz
HDMI 2: 1920x1080@60Hz
VGA: 1920x1080@60Hz
USB: USB interface of PCAP touch (2 points)



i-Tech Company LLC
TOLL FREE: (888) 483-2418 • EMAIL: info@itechlcd.com • WEB: www.iTechLCD.com

MECHANICAL DRAWING:



LCD OPTIONS:



LED Backlight Options

Introducing LED backlight options for monitors for energy efficiency and a brighter screen.



VIDEO Input Options:

For Video inputs options:

DVI, DVI+HDMI, SVideo+AV, SVideo+AV+DVI, AV+Looping, DVI+AV+Looping, HD-SDI, BNC (PAL/NTSC)



Optical Bonding Options

- Optical Bonding provides the best reduction of ambient light washout of any commercially available enhancement technology.
- Optical Bonding has a lower cost than most other competing technologies.
- Optical Bonding offers superior ruggedization, enhancing the display durability under vibration, shock and other environmental extremes.



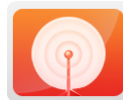
RS-232 Remote Control Options

Remote Control Protocol: Command Code to set system



9-36V DC Input Options

iTech offers a selection of DC input from 9V to 36V



Light Sensor and Motion Sensor Options

iTech LCD offers Light and Motion Sensor

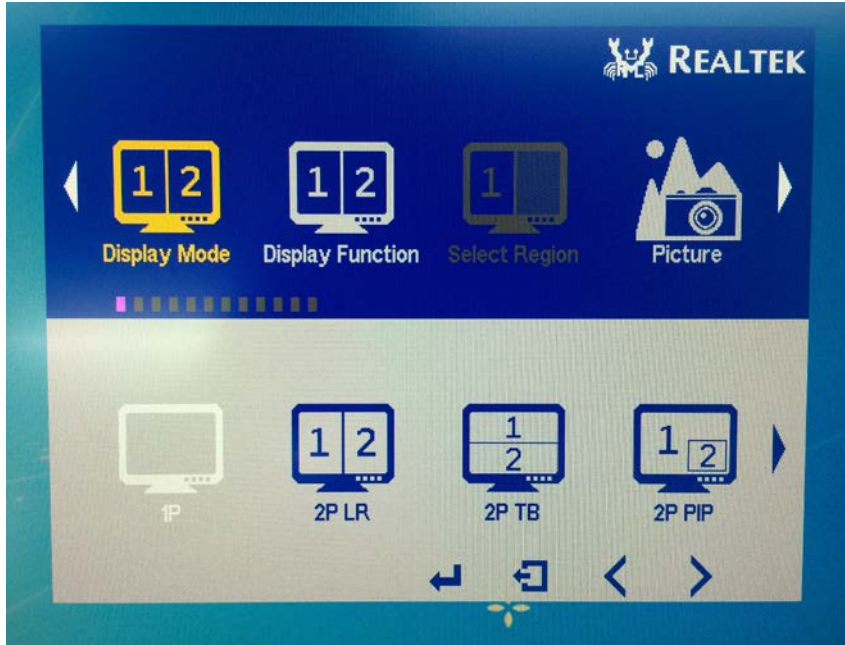
Privacy Filter

Front Glass Options:

- Anti Reflective AR Glass 3mm
- Anti Reflective AR Glass 6mm Vandal-Resistance
- Anti Reflective AR Glass 8mm Vandal-Resistance
- Anti Glare AG Glass 3mm

1. Main Menu :

If push the “ MENU” key the screen will appear this main menu page, you can use the “UP” or“ADJ. +” AND “Down” or “ADJ. –“ key (Shown in Pic1) to select the function you need.



The end of this page will be shown the working resolution and frequency.

a. Display Mode

Press the and buttons to move between options. As you move from one icon to another, the option name is highlighted.

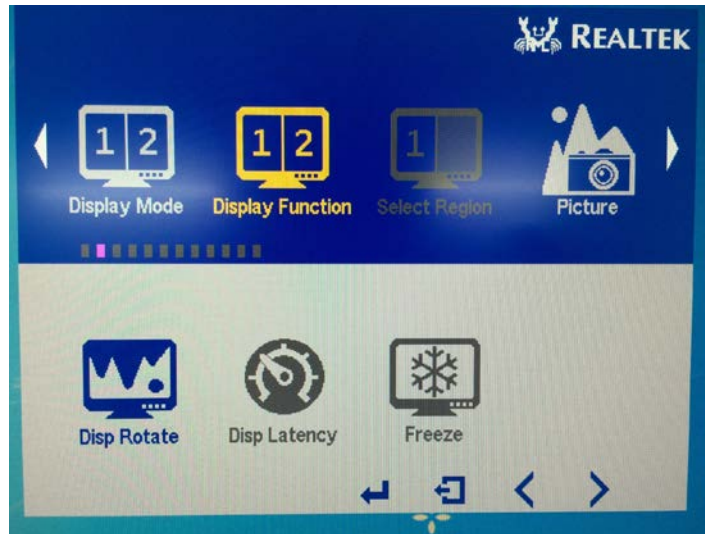
Choose the Display Mode for 1P , 2P

Display Mode	1P
	2P
	1/2P Right Left
	1/2P Up down
	PIP

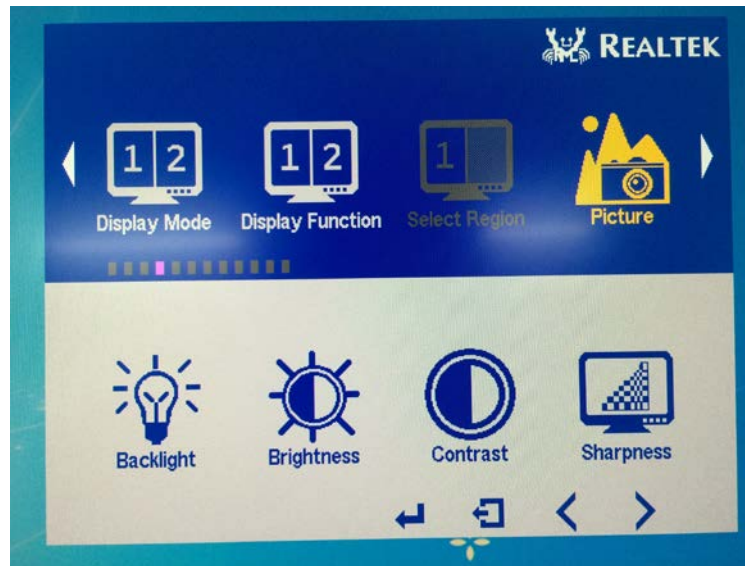
b. Display Function

Display Rotate, Set to rotate the OSD menu

OSD Rotated: OFF / 90 / 270



c. Picture



b-1 Backlight

If select BackLight function, you can push ADJ+ or ADJ- key to increase or decrease backlight current of the inverter.



c-2. Brightness

If select Brightness function, you can push ADJ+ or ADJ- key to increase or decrease offset setting.



c-3. Contrast

Adjusts the image CONTRAST in relationship to the background. Press“< ” or “> ” to adjust.

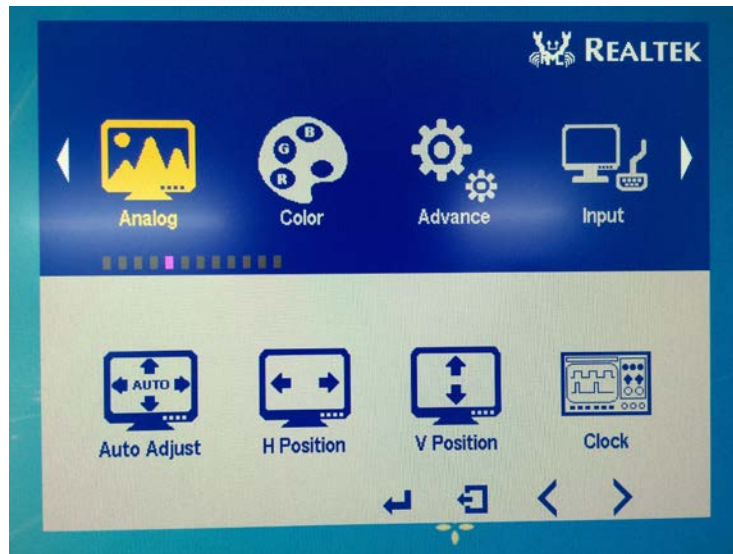


c-4. Sharpness

Adjusts the crispness of the image. Press“< ” or “> ”to adjust.

d. Analog

Select Screen Setting function , that will into the sub-page to adjust display's function of the picture.



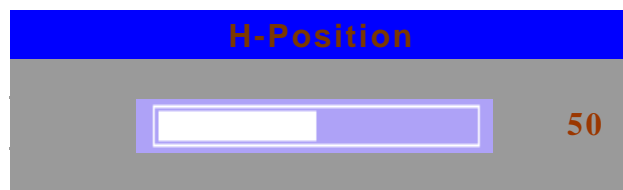
d-1. Auto Adjust

Select this function on OSD MAIN MENU and push the MENU key. In this function, that will be activated the auto adjusting for the picture.



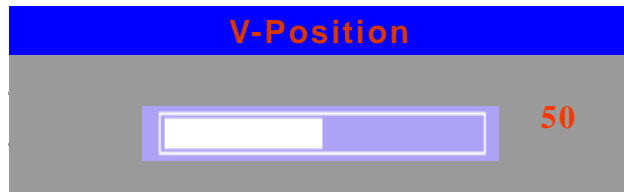
d-2. H-Position

If select H Position function, you can push ADJ+ or ADJ- key to shift to Right or Left of the picture.



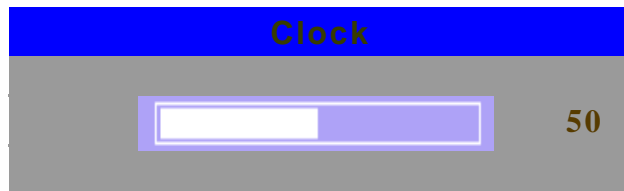
d-3. V-Position

If select V Position function, you can push ADJ+ or ADJ- key to shift to Up or Down of the picture.



d-4. Clock

If select Clock function, you can push ADJ+ or ADJ- key to increase or decrease video H Size of the picture.

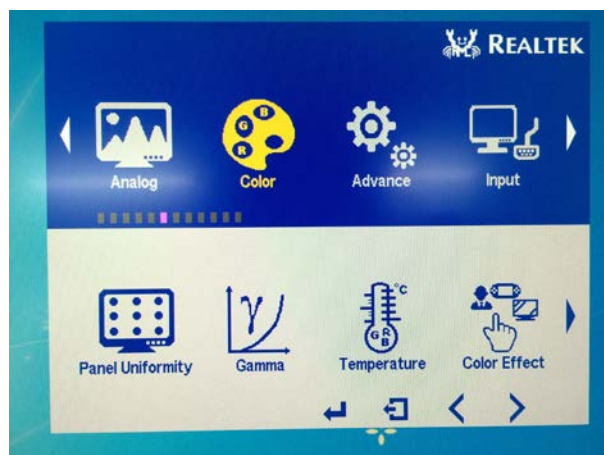


e. Color

e-1. Panel Uniformity: Uniform the brightness and colour temperature was across the screen, as well as identify any leakage from the backlight in dark lighting conditions.

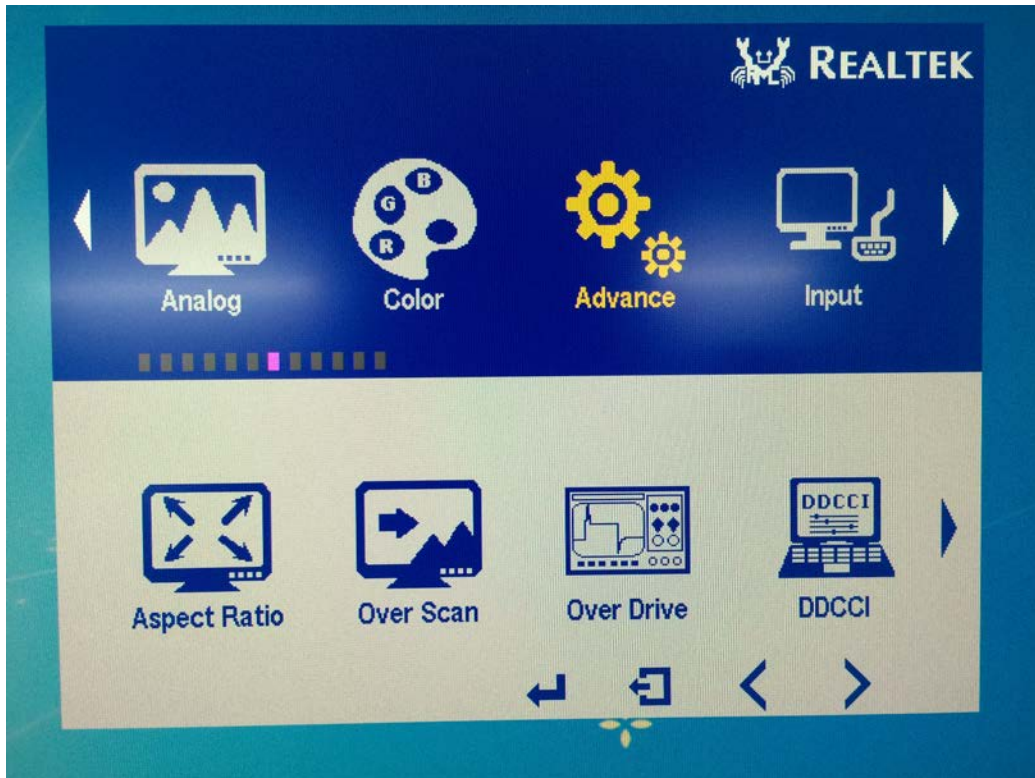
e-2. Gamma: GAMMA SELECTION Select a display gamma value for best picture quality.

e-3. Temperature: Adjusts the color temperature of the entire screen. A low color temperature will make the screen reddish. A high color temperature will make the screen bluish.



f. Advance

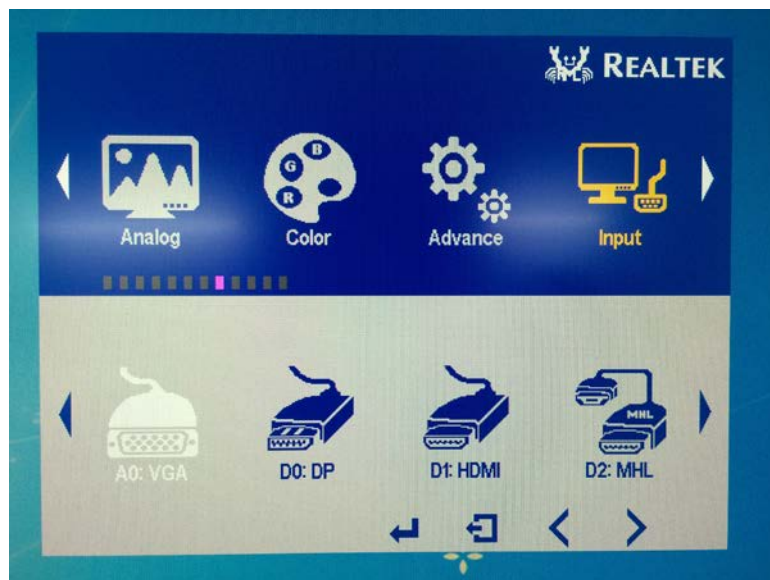
If your monitor does not operate normally or cannot be turned on, please check the following troubleshooting questions. Remember also to check any other connected electronic device, such as DVD or Blu-ray player to pinpoint the problem.



f-1. Aspect Ratio: Adjust the Aspect Ratio settings in the SETUP menu or press the ASPECT button on the remote control. Pictures appear in wrong ratio

g. Signal Input source

Use the Input Source menu to select between different video inputs that are be connected to your monitor.





i-Tech Company LLC.
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Email: sales@i-techcompany.com
Website: www.itechlcd.com

Test Report

Customer: ElectroWing Technologies Pvt. Ltd.

Customer PO No: EWT/PO-027/2019-2020

i-Tech Sales Order No: 108965

Part No: ECH1040XWT-TR x 3 pcs and EWT-EMCMW2380-4K-PCAP-V1 x 1 pcs

Burn in Test	Testing Program: checkit (4 hours)
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Serial No.	Burn Test
S/N # 8119110000329-108965 to 8119110000331-108965	√
S/N# 8119110000328-108965	√

Tested by: Felipe Briones

Date: 12/18/2019

Approved by: Alan Chung

Date: 12/19/2019





Certificate of Conformance

I-Tech Company LLC
42978 Osgood Road. Fremont, CA 94539
Tel: 1-888-483-2418 Fax: 1-510-372-2736

ElectroWing Technologies Pvt. Ltd. Order Number: EWT/PO-027/2019-2020

iTech part# **ECH1040XWT-TR x 3 pcs** and **EWT-EMCMW2380-4K-PCAP-V1 x 1 pcs**

Drawing Number N/A Revision

Specification(s), if applicable N/A Revision

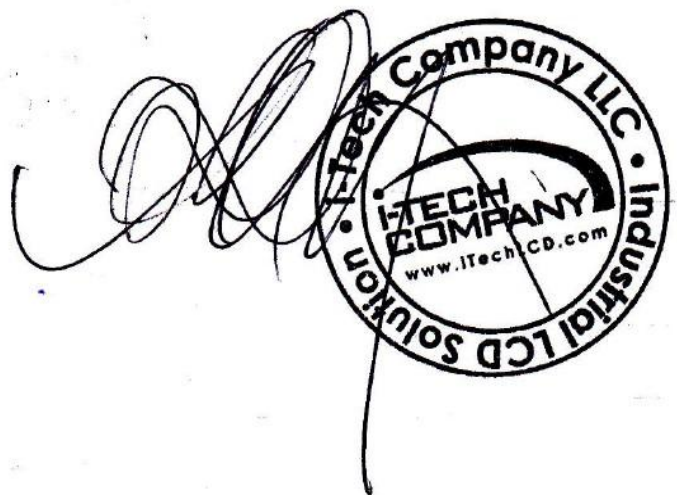
iTech Manufacturing Order Number, if applicable i-Tech Sales Order# 108965

Description:

ECH1040XWT-TR: Chassis , 10.4" LCD monitor, 1024x768, LED-350nits, VGA, WV(178°/178°), WT(-30~70?),12VDC-IN w/Adapter, 5-wire resistive touch
S/N# 8119110000329-108965 to 8119110000331-108965

EWT-EMCMW2380-4K-PCAP-V1: Chassis LCD Display for Airborne application, 23.8"-3840x2160, LED-300nits
S/N# 8119110000328-108965

This is to certify that the parts/items/material identified above conform to all applicable drawings and/or specifications as evidenced by reports or other documentation on file and that all other purchase order and quality requirements have been met.



Authorized Company Official Name and Title

42978 Osgood Road, Fremont, CA 94539
Tel: 1-888-483-2418 Fax: 1-510-372-2736
www.itechlcd.com



Warranty Certificate

Period of Guarantee:

Total one year Depot Warranty from the date of shipping (12/24/2019) for product item# ECH1040XWT-TR x 3 pcs and EWT-EMCMW2380-4K-PCAP-V1 x 1 pcs

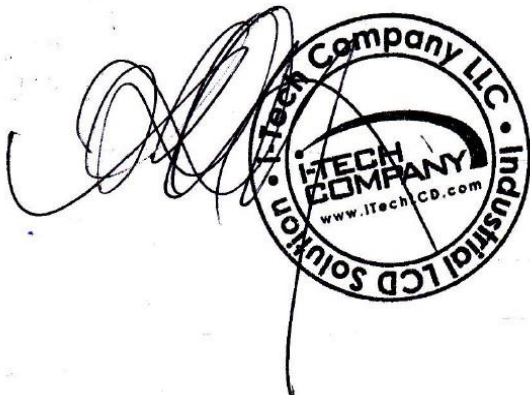
Serial numbers: 8119110000329-108965 to 8119110000331-108965, 8119110000328-108965

Claims:

- Contact original point of purchase for instructions on applicable warranty claim procedures.
- Upon satisfactory proof of claim as determined by the product will be repaired or replaced based on the original purchase price and the portion of the warranty term remaining to be applied towards the purchase of a replacement product.
- Under no circumstances can product be returned, credited or exchanged without written authority from I-Tech Company. Any freight charges incurred are at the user's expense.

Limitations:

The warranty is the only warranties and remedies provided for by i-Tech Company LLC to the user. I-Tech Company disclaims all implied warranties of merchantability and fitness. In no event shall I-Tech Company be liable, except to the extent that this limitation is found to be unenforceable under the applicable law.



Authorized Signature

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