

# Model: ECHW5500-125VDC

Chassis Mount 55" LCD monitor, 1920 x 1080, LED 350 nits, VGA + HDMI + DVI input, with 125VDC input

#### ECH Series: Industrial Chassis Wall/Surface Mount Metal Housing LCD Monitor (Optional Integrated Touch Screen/PC/ DC Input/Front NEMA4x/Front Stainless steel bezel and more...)

#### Feature Highlights:



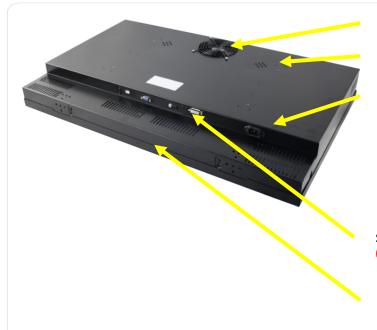
#### Metal Chassis/Housing for higher Impact protection. (Optional for Front AR Glass or Vandal Resistant glass)

Built-in speak built-in speakers that allow the convenience Audio output.

Side OSD buttons can prevent unnecessary setting changes.

Above 24" LCD will include Front IR Sensor and Remote controller.

Auto Video Signal ON / OFF Auto Always Power On



Ultra low speed/Noise fan for extra cooling (24" LCD or above) VESA Mounting Hole Pattern

Reliable built-in Power supply for 15" or above (Optional for 72-144V DC input)



Standard VGA Input (Optional for DVI. HDMI, AV, BNC, AV looping and SDI)

Optional for RS232 Remote Control Protocol: Command Code to set system



## Features:

- Modularize mechanical design provides flexible product configuration and easy maintenance
- Optional build-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

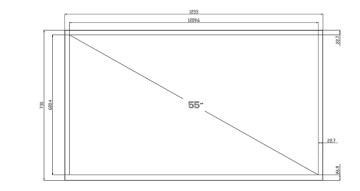
### Specification:

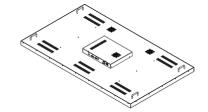
Panel	Cell Type / Glass Surface	TFT LCD / Black Anti-Glare, low reflection coating				
	Aspect Ratio / Size	Wide / 55" viewable diagonal area				
	Active Area / Pixel Pitch	1209.6(H) x 680.4(V) mm / 0.63(H) x 0.63(V) mm				
	Native Resolution / Colors	1920(H) x 1080(V) / 16.7M				
	Brightness / Contrast	350 cd/m <sup>2</sup> (typ) / 3000 : 1				
	Response Time	< 8 ms (G-to-G)				
	Viewing Angle (typical)	H.178° (- 890 ~ + 890) , V. 1780(- 890 ~ + 890)				
	Light Source	LED backlight, Long life, 35,000 hrs (typ)				
Input Sources	PC System	Signal	Analog RGB (0.7/1.0 V <sub>p-p</sub> , 75 ohms)			
		Sync	Separate Sync, Composite Sync, Sync On Green			
		Frequency	F <sub>h</sub> : 30 - 82Khz , F <sub>v</sub> : 50 -75Hz			
	Audio System	2W speaker x 2				
Input Terminals	1 x VGA, 1 x HDMI, 1 x DVI,	1 x PC Audio (Stereo Headphone Jack) , 1 x DC Power Plug				
Convenient Features	Auto Calibration , Back Light	t Adjustment , Plug&Play (VESA DDC/CI, DDC 2B)				
	OSD Multi-Languages , Wall	Mount Ready (VESA Dimension - please refer to Drawing)				
Power	125VDC input with terminal b	block				
Power Consumption	Operation / Power Saving	160 watt , < 1 watt (Support DPMS)				
Operating Condition	Temperature / Humidity	0°C ~ 50°C (32°F ~ 122°F) , 10% ~ 90% (no condensation)				
Storage Condition	Temperature / Humidity	- 20°C ~ 60°C (- 4°F ~ 140°F) , 10% ~ 90% (no condensation)				
Certification		FCC , CE				
Dimensions	Physical	Please refer to Drawing				
	Carton	W x H x D = TBD				
Weight	N.W. / G.W.	43.5 Kgs / 46.5 Kgs				
Container Loaded	20ft / 40ft / 40ft HQ	TBD (Sets , By pallet)				

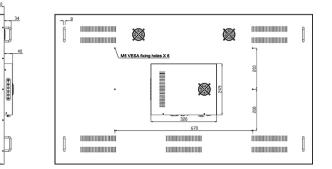
Options	Touch	Video/TV	Enhanced Panel	Others	
	Resistive touch	SV + AV	Panel with LED backlight	Digital Signage(Stand alone)	
	Capacitive touch	SV + AV + AV_Looping	High brightness panel	Networking Digital Signage	
	SAW touch	SV + AV + TV	Wide Temperature	Motion Sensor	
	Infrared touch		Sunlight Readable	Light Sensor	
	Protected glass			Auto-Dimming	

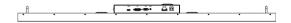
## Mechanical Drawing:

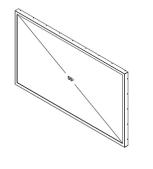


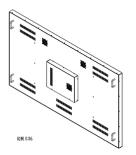












#### LCD Options:



#### LED Backlight Options

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



#### **TouchScreen Options**

Our LCD has a wide selection option to choose which touchscreen.technology suits for you.

	Four-Wire Resistive	Five-Wire Resistive	Pen Touch	Capacitive	Surface Wave(Saw)	Infrared Touch (Ir)
PRODUCT SIZE	1.7" - 24"	10.4" - 24"	15" – 19"	12" - 24"	10.4" - 30"	10.4" - 42"
TOUCH LIFE	1 – 2 million touches	30 – 35million touches	100 million touches	100 million touches	50 million touches	Long-term reliability
SCRATCH RESISTANCE	Hard Coated	Hard Coated	Hard Coated (SiO²)	Hard Coated (SiO²)	Glass Overlay Moh's hardness rating of 7	Glass Overlay Moh's hardness rating of 7
CONTAMINANT RESISTANCE	Resists moisture, dirt, vinegar, ammonia based food products and cleansers	Resists moisture, dirt, vinegar, ammonia based food products and cleansers	Resists moisture, dirt, vinegar, ammonia based food products and cleansers	Resists moisture, dirt, vinegar, ammonia based food products and cleansers	Resists moisture, dirt, vinegar, ammonia based food products and cleansers	Resists moisture, dirt, vinegar, ammonia based food products and cleansers
	Finger, Gloved Hand, Stylus	Finger, Gloved Hand, Stylus	Stylus Pen	0	Finger, Gloved Hand, Soft pliable stylus	Finger, Gloved Hand, Stylus
CONTROLLER	USB, RS232	USB, RS232	USB, RS232	USB, RS232	USB, RS232	USB, RS232



#### **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



#### 72-144V 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



## Features:

- 2:1 wide input range ٠
- Protections: Short circuit / Overload / Over voltage •
- 1500VAC I/O isolation •
- Built-in EMI filter, low ripple noise ٠
- 100% full load burn-in test ٠
- 24V and 48V input voltage design refer to LVD ٠
- Low cost ٠
- •
- High reliability 2 years warranty •

## Specification:



MODEL		SD-150B-12	SD-150C-12	SD-150D-12	SD-150B-24	SD-150C-24	SD-150D-24		
DC VOLTAGE		12V		·	24V	·			
ουτρυτ	RATED CURRENT	12.5A			6.3A				
	CURRENT RANGE	0 ~ 12.5A			0~6.3A				
	RATED POWER	150W			151.2W				
	RIPPLE & NOISE (max.) Note.2	120mVp-p			150mVp-p				
	VOLTAGE ADJ. RANGE	11 ~ 16VDC			23 ~ 30VDC				
	VOLTAGE TOLERANCE Note.3	±1.0%			±1.0%				
	LINE REGULATION	±0.5%			±0.3%				
	LOAD REGULATION	±0.5%			±0.3%				
	SETUP, RISE TIME	2s, 50ms(only D mode) at full load							
	HOLD UP TIME (Typ.)	24ms(only D mode) at full load							
	VOLTAGE RANGE	B:19 ~ 36VDC	C:36 ~ 72VD	C D:72~14	4VDC or 85 ~ 132	VAC			
	EFFICIENCY (Typ.)	75%	77%	79%	77%	80%	82%		
INPUT	DC CURRENT (Typ.)	6.8A/24V	3.4A/48V	2.7A/96V	6.8A/24V	3.4A/48V	2.7A/96V		
	INRUSH CURRENT (Typ.)	D:22.5A/96VDC		12	10.0712.11		2		
	LEAKAGE CURRENT		AC (SD-150D)						
	OVERLOAD	<0.75mA / 120VAC (SD-150D) 105 ~ 135% rated output power							
		Protection type : Hiccup mode, recovers automatically after fault condition is removed							
PROTECTION		16.8V ~ 20V/10% LOAD 31.5 ~ 37.5V/10% LOAD							
	OVER VOLTAGE	Protection type : Hiccup mode, recovers automatically after fault condition is removed							
	WORKING TEMP.	-10 ~ +60 (Refer to output load derating curve)							
	WORKING HUMIDITY	20 ~ 90% RH nor							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-20 ~ +85 , 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0 - 50	)°C)						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	IEC60950-1 CB approved by TUV (for D type only)							
	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC							
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH							
EMC (Note 4)	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B							
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,6,8; ENV50204, light industry level, criteria A							
OTHERS	MTBF	296.2K hrs min.(\$ (25°C)		289.9K hrs min.(S		K Hrs min.(SD-150D)	MIL-HDBK-217F		
	DIMENSION	199*110*50mm (	L*W*H)						
	PACKING	0.86Kg; 16pcs/14							
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 24,48,96VDC input, rated load and 25 of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets</li> <li>EMC directives.</li> </ol>								

#### Mechanical Specification

Case No. 906 Unit:mm

Assignment

350

300

250

200

150

100

50

OUTPUT RIPPLE (mVp-p)

