

Produce Specification

Product name : DTEM -B-P115 all-in-one machine

Specifications and models : 320 *360 P1 .3 8

*4 Indoor full color 115 inches

Document number : _____

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1. Scope of application

This technical manual is only applicable to the DTEM -B-P115 all-in-one product . The following are the general product parameters. If there are special needs, it can be customized.

2. Note

project		describe
environment Notice matter	Temperature requirements	Storage temperature range: -10°C -30°C , if it exceeds 30°C , cooling treatment is required. Working temperature range: -20°C -40°C . For other temperature ranges, additional temperature control equipment is required. The lamp surface temperature when the unit board is working: $\leq 60^{\circ}\text{C}$. If the temperature exceeds the standard, additional temperature control equipment must be installed.
	Humidity requirements	Storage humidity range: 10%RH-60%RH. Dehumidification is required if the humidity exceeds 60%RH. Working humidity range: 10%RH -65%RH. If the humidity exceeds the standard, the use environment must be dehumidified before it can be used normally.
	Storage overdue processing	If the product is stored for more than one month, it must be aged for 6 hours before use. The aging method is: full brightness setting 10% 1H, full brightness setting 30% 1H, full brightness setting 60% 2H, full brightness setting 80% 1H, full brightness setting 100% 1H (brightness gradually increases aging) .
	Dustproof requirements	Indoor products do not have a protection level or IP30, and the display screen should not be exposed to dusty environments, such as studio decoration, renovation, etc., and special protection is required for the display screen. LED displays cannot be installed during decoration.
	Protection against corrosive gases	Corrosive gases in environments containing salt or acid gas in the air will cause corrosion of electronic components, crystallization and leakage.
	Protection against electromagnetic radiation	The display screen should not be placed in an environment where electromagnetic radiation and radio frequency radiation exceed interference sources with a field strength of 5V/m.
	Avoid strong	Strong light will affect the display effect of the

	light exposure	display and affect the product life. It should be installed away from the direction where the direct sunlight lasts for a long time.
	Stay away from water	The protection level of indoor products is low, and conductive water can short-circuit the circuit and cause damage to circuit components, so it is necessary to stay away from water sources.
	Static electricity hazards, preventing lightning strikes	The metal components of the screen, switching power supply casing, and box must be well grounded. Note that the grounding resistance is $\leq 10 \Omega$. Prevent damage to electronic devices caused by static electricity in humid environments, and avoid harm to the human body due to leakage.
	personal injury	The angle and height of the display screen must be installed appropriately, and sharp corners must be packaged to prevent the strong shell from harming the human body.
	special environment	Use LED displays in special environments (1. Seaside, swimming pools, bathing areas, basements, tunnels; 2. Chemical environments, vulcanization environments, halogen environments; 3. Sand and dusty environments; 4. Strong UV environment; 5. Environment with strong electromagnetic field; 6. Environment less than -20 degrees and greater than +40 degrees), it must be used properly according to the product application environment.
use operate Notice matter	Static Protection	Installers must wear electrostatic bracelets and electrostatic gloves, and all tools must be strictly grounded during the assembly process.
use operate Notice matter	Disassembly and transportation process	Do not drop, push, squeeze or press the unit board to avoid damaging the display screen;
	Disassembly and maintenance of liquid protection	During disassembly and assembly operations, no sweat or other liquids should drip onto the display. If any drips onto the display, alcohol is required to clean the dripping location of the product to prevent the liquid from corroding the product.
	Install torque control	When wiring the power supply, ensure that the terminal connector screws are tightened to prevent the connector from loosening, which may lead to wire burning or product damage due to high contact resistance. The torque for M4 screws is 6.0-8.0 Kgf.cm , and the torque for M3 screws is 4.0-6 . 0kgf.cm _ _

	No live work is allowed	It is forbidden to assemble the unit board when the power is on. The unit board should be assembled with the main power input disconnected. Assembly with power cords and signal lines inserted is not allowed.
	It is forbidden to touch with electricity	When the screen is lit and in use, it is prohibited for people to touch or touch the LED display to prevent static electricity generated by human body friction from breakdown of LED lights, chips and other components.
	environmental inspection	The installation site of the display screen needs to be equipped with a temperature and humidity meter to monitor the environment around the screen in a timely manner. After heavy rain, you should promptly check whether there are moisture, water droplets, water vapor and other problems inside the display screen.

3. Product Description

3.1 Product features

Features

- High-quality lamps, high lamp brightness utilization and guaranteed lamp life
- Selected PWM driver IC, natural gray-scale transition, high refresh rate, realistic picture display and bright colors
- High contrast ratio can achieve good display effect
- Uses low-voltage method to drive LED , uniform light emission and low power consumption
- Easy to install and maintain, the body is light and slim, and easy to move

Product Features

- Android/Microsoft dual system, supports multi-platform terminal wireless screen projection, video conferencing and other functions
- Wireless screen projection control can be achieved with the terminal APP (Android only)
- Support multiple signals to be connected at the same time, display without lag or black screen
- Supports screen scaling, image quality effect adjustment, and one-click

activation of eye protection mode

- Support local and online high-definition video playback
- Dual WiFi mode, you can use WiFi and turn on wireless hotspot at the same time
- Supports Bluetooth 4.0 and can be connected to common peripherals such as Bluetooth remote controls, Bluetooth mice, Bluetooth keyboards, and Bluetooth speakers.
- Supports 4-way relays to realize power management of LED conference screen
- Reserve the OPS host control interface to realize OPS host power on and off control
- Supports 3D function, used with 3D emitter and 3D eyes to achieve 3D display effect

3.2 Product pictures



All-in-one machine front view



All-in-one machine back view

4. Product technical parameters

pixel spacing	1.3mm	Pixel density	562500Dots/m ²
Pixel composition	1R1G1B	Lamp packaging	SMD1010
Panel size (length*width*thickness)	320*180*2.6mm	Panel resolution	240*135
Single box size (length*width*thickness)	320*360*40mm	Single box resolution	240 *270
Cabinet material	Synthetic resin	Single box area	0.1152 m ²
Full screen display size (length*width)	2560*1440mm	Overall screen dimensions (length*width*thick ness) (including camera)	2582 *1 561 * 85.2 mm
Whole screen weight	85kg	Full screen display ratio	16:9
Whole screen area	3.6864 m ²	Full screen resolution	1920*1080
Brightness (white balance)	≥450 -600 cd/m ²	Brightness control	Manual / automatic
color temperature	3000~15000K	color	2 81 . 4trillion
Viewing angle (degrees)	Level 160 vertical 1 140 °	Best viewing distance	≥2.2 m

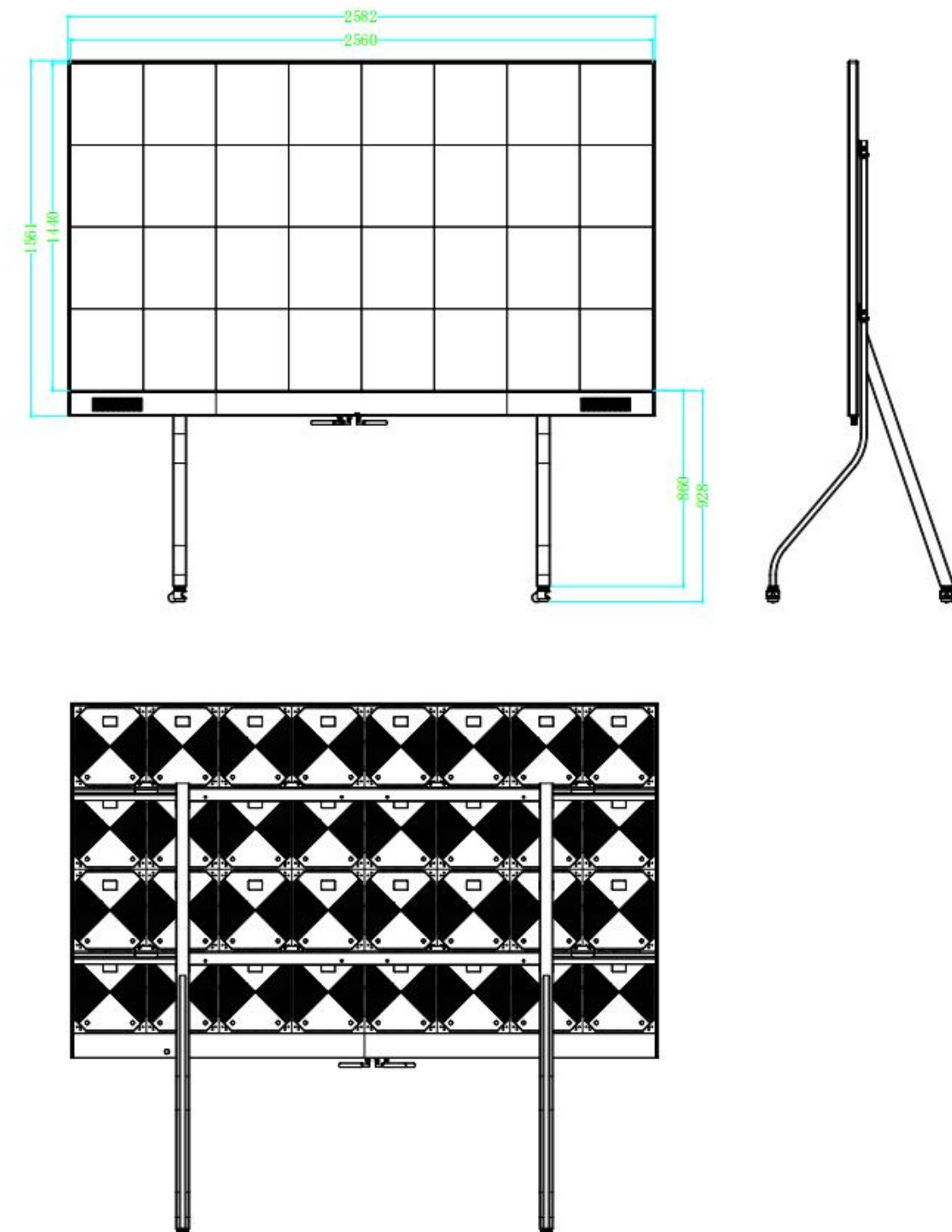
Refresh frequency (Hz)	3840Hz	Grayscale	12-14 Bit
Brightness correction	support	Chroma correction	support
frame change frequency	50/60HZ	Input power	AC200~230V (50/60HZ)
Maximum power consumption of the entire screen	2100W / H	average power consumption	1250W / H
Contrast	5000:1	Luminous point center deviation	≤ 3%
Service life	≥100,000 hours	Usage environment	indoor
range of working temperature	- 10℃-40℃	Working humidity range	10%-70 % RH (no condensation)
Storage temperature range	-25℃- 50℃	Storage humidity range	10%-65%RH (no condensation)

5. Panel signal interface definition

1	●	●	2
3	●	●	4
5	●	●	6
7	●	●	8
9	●	●	10
11	●	●	12
13	●	●	14
15	●	●	16
17	●	●	18
19	●	●	20
21	●	●	22
23	●	●	24
25	●	●	26
27	●	●	28
29	●	●	30
31	●	●	32

pin	Signal	Function	pin	Signal	Function
1	VCC	power supply	2	VCC	power supply
3	R1	red data signal	4	G1	green data signal
5	B1	blue data signal	6	GND	power ground
7	R2	red data signal	8	G2	green data signal
9	B2	blue data signal	10	GND	power ground
11	R3	red data signal	12	G3	green data signal
13	B3	blue data signal	14	MOSI	Store data input signal
15	R4	red data signal	16	G4	green data signal
17	B4	blue data signal	18	MISO	Store data output signal
19	A	row control signal	20	B	row control signal
21	C	row control signal	22	S-CLK	Store clock signal
23	S-CS	Store chip select signal	24	GND	power ground
25	CLK	clock signal	26	LAT	latch signal
27	OE	enable signal	28	GND	power ground
29	VCC	power supply	30	VCC	power supply
31	VCC	power supply	32	VCC	power supply

6. All-in-one machine appearance diagram



Note: All dimensions are in mm