

VT Mini LED

-User Manual-



1. Precautions

Warning: Violation of the guidelines could result in serious accidents or injuries

Caution: Violation of the guidelines may result in minor injuries, property damage or product degradation

Warning

- ▶ This product handles AC 100-240V.
Be careful when connecting as there is a risk of electric shock.
- ▶ Use AC power after installing a separate circuit breaker

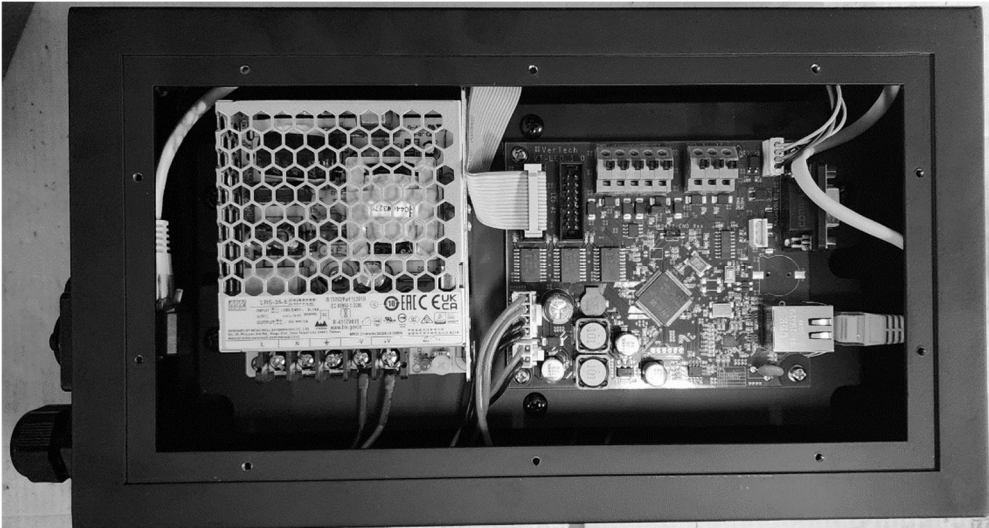
Caution

- ▶ Don't make a big impact on the product
It causes product failure, damage, and electric shock.
- ▶ Do not spray combustible materials such as combustible sprays around the product
It can cause fire and product failure.
- ▶ Avoid direct sunlight and high temperatures
It can cause discoloration and bleaching.

2. Product Appearance (Actual Photo)



< Front >



< Rear >

3. Product Specifications

A. Physical Parameters

Parameter	Descriptions
Pitch Name	P4
Pixel Configuration	3 in 1 SMD
Screen Resolution (W x H)	64 x 32
Unit Case Dimensions (mm)	300(W) x 170(H) x 70(D)
Weight (kg)	2.5 ~3.5

B. Optical Parameters

Parameter	Descriptions
Brightness(cd/m ²)	100 ~ 800(User setting)
Viewing Angle	140
Best viewing distance	≥ 4m

C. Electrical Parameters

Parameter	Descriptions
Input Power Supply (AC V)	100 ~ 240
Input Power Current(Max A)	0.74
Operation Power(DC V)	4.5 ~ 5.5
Operation Current(Avg Watt)	10W ~ 20W
Recommended Power Cable Thickness(ø)	6 ~ 11 (Cable Gland - PG13.5)

D. Operation Conditions

Parameter	Descriptions
Life time(Hours)	100,000
Operating Temperature (°C)	-10 ~ 50
Operating Humidity(% RH)	10 ~ 80

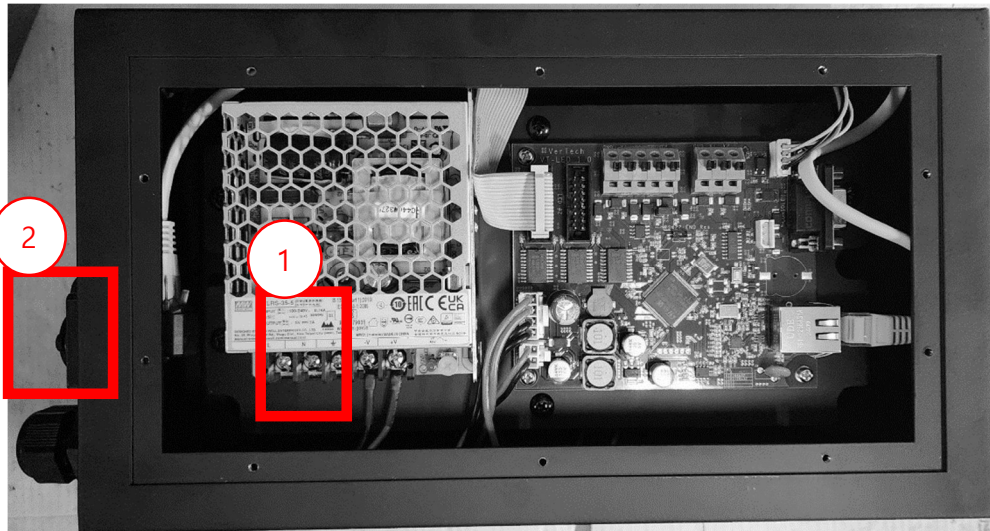
E. Connectivity (Embedded Controller)

Parameter	Descriptions
Interfaces	Ethernet (100Base-T / 10Base-T) ... 1ea RS232 ... 1ea RS422/RS485 ... 1ea
Device configuration	Software Setting (Devices Configuration Program) Network Only
Termination resistor(RS422/ RS485)	Internal jumper settings(Manual)

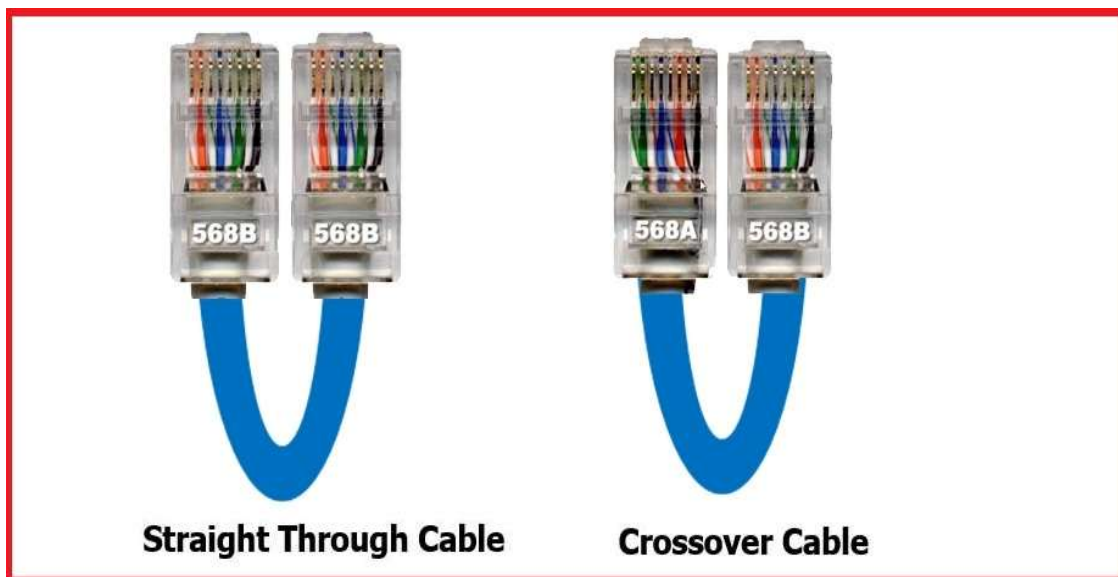
F. Basic Accessory

Item	Quantity
Main Display	1
Floor support	1
Setting Lan cable(Cross Type – 2m)	1
4mm bolts (4 for floor support, 1 for spare)	5

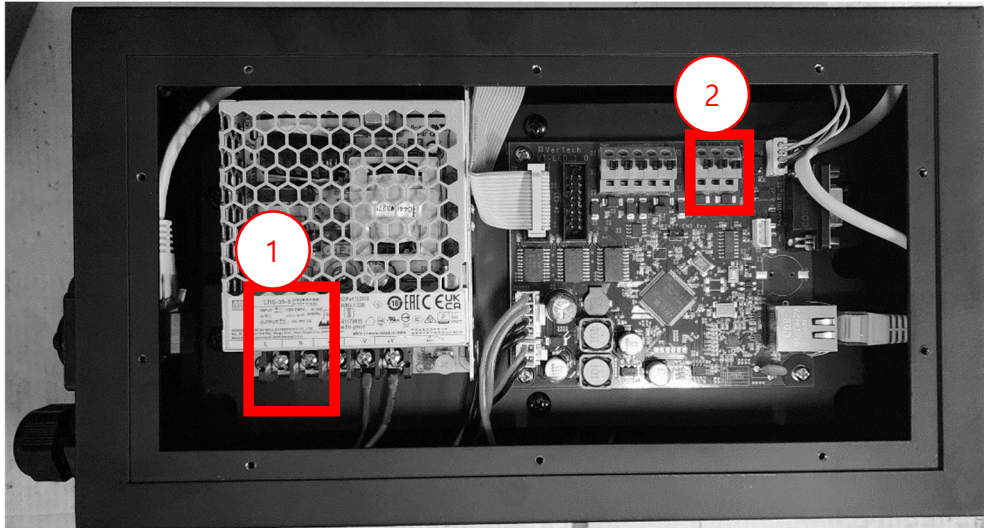
4. Ethernet connection



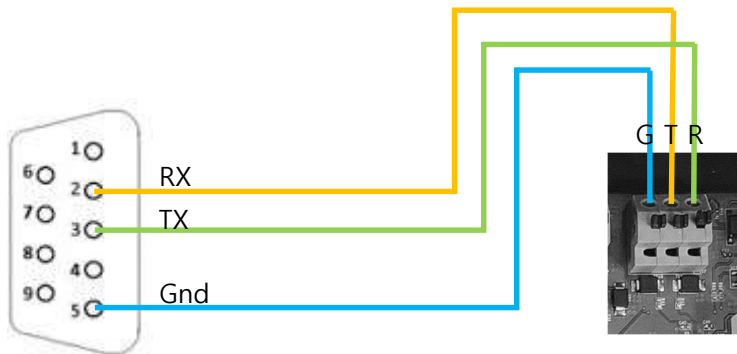
No	Descriptions	Remark
1	AC Power Line(L, N, Earthing)	
2	RJ45	- . PC to LED : Cross Cable - . Hub To LED : Straight Through Cable



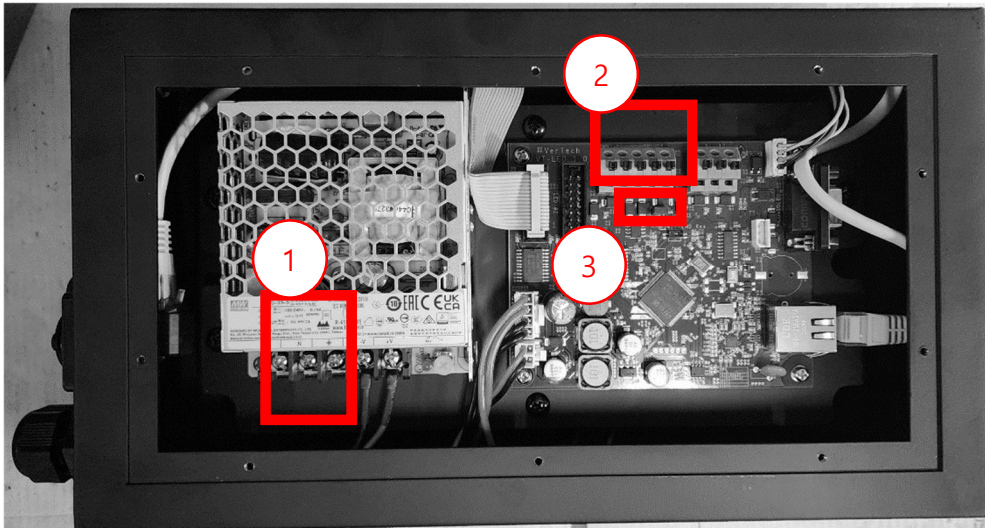
5. RS232 connection



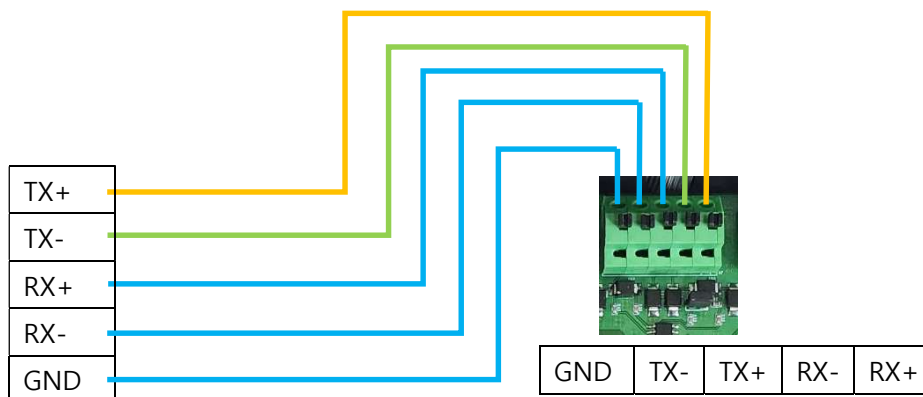
No	Descriptions	Remark
1	AC Power Line(L, N, Earthing)	
2	Terminal	RX ↔ TX(T) TX ↔ RX(R) GND ↔ GND(G)



6. RS422 connection

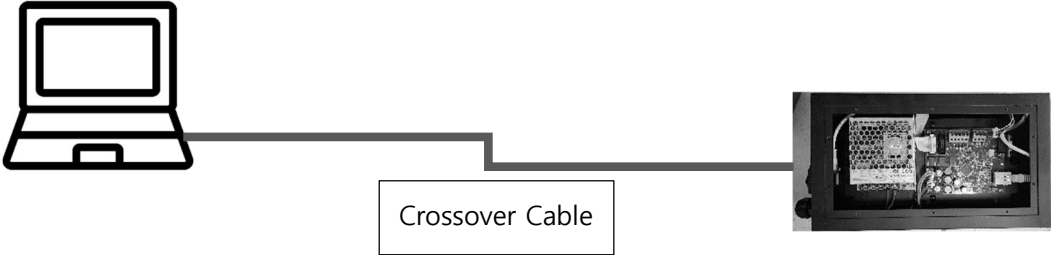


No	Descriptions	Remark
1	AC Power Line(L, N, Earthing)	
2	Terminal (Master ↔ Slave)	RX+ ↔ TX+ RX- ↔ TX- TX+ ↔ RX+ TX- ↔ RX- GND ↔ GND(Optional)
3	Terminating Resistance (120Ω)	Default: Close (On: Terminating Resistance)



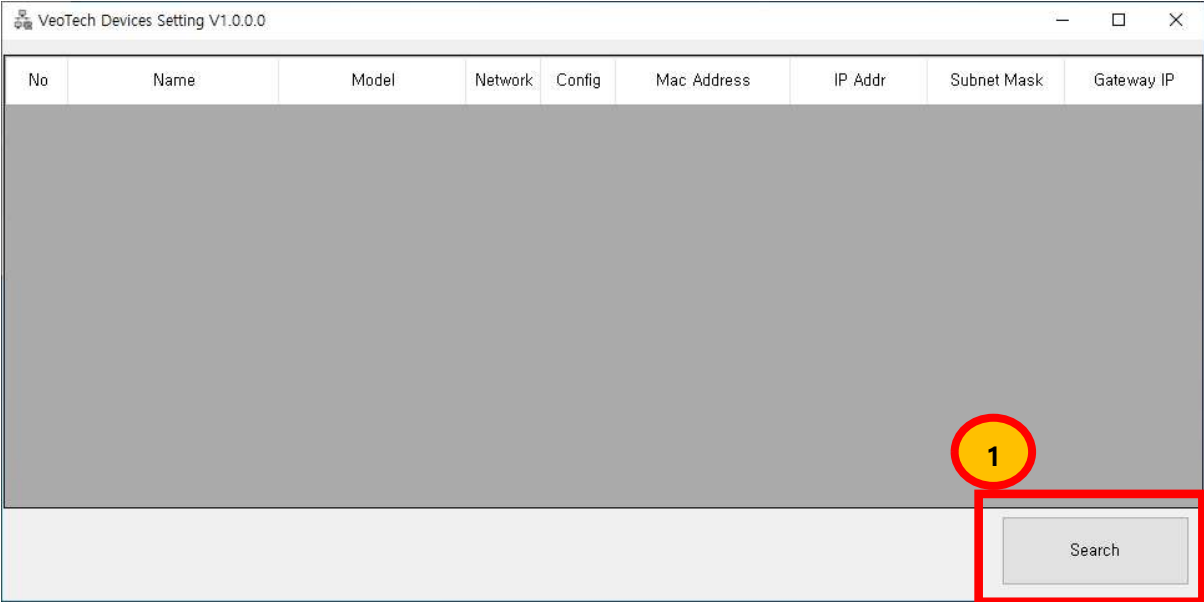
7. LED Display Setting

A. Device Network Connted



- ① AC Power
- ② Lan Calble


B. Program Run & Search



- ① Search Start

C. Search complete

The screenshot shows a software window titled "VeoTech Devices Setting V1.0.0.0". It contains a table with the following data:

No	Name	Model	Network	Mac Address	IP Addr	Subnet Mask	Gateway IP
1		VT-MINILED (01)		8C-1F-64-CF-90-02	192.168.254.102	255.255.255.0	192.168.0.1

Below the table is a large grey area and a "Search" button at the bottom right. The "Network" and "Device Setting" buttons in the first row of the table are highlighted with a red box and numbered 1 and 2 respectively.

① Network Configuration Button

② Device Setting Button

D. Network Setting

The screenshot shows a 'Network Setting' dialog box with the following fields and buttons:

1	Device Name	<input type="text"/>
2	Model	VT-MINILED (01)
3	Serial No	202400001
4	H/W Mac Address	8C:1F:64:CF:90:02
5	S/W Mac Address	<input type="text" value="8C:1F:64:CF:90:03"/>
6	S/W Mac Address Use	<input type="checkbox"/> Use
7	DHCP Use	<input type="checkbox"/> Use
8	IP Address	<input type="text" value="192,168,254,102"/>
9	Subnet Mask	<input type="text" value="255,255,255,000"/>
10	Gateway IP	<input type="text" value="192,168,000,001"/>
11	Firmware Version	1,0,0
12	Firmware Date	2024-06-30
13	Cancel Button	<input type="button" value="Cancel"/>
14	Setting Button	<input type="button" value="Setting"/>

- ① Device Nickname
- ② Model No
- ③ Serial No(Year(4) + Seq(5))
- ④ Hardware Mac Address
- ⑤ Software Mac Address(Default: **Hardware Mac**)
- ⑥ Software Mac Address Use(Default: **Not selected**)
- ⑦ DHCP Use (Default: **Not selected**)
- ⑧ Network IP Address (Default: **192.168.0.101**)
- ⑨ Network Subnet Mask (Default: **255.255.255.0**)
- ⑩ Network Gateway IP (Default: **192.168.0.1**)
- ⑪ Firmware Version
- ⑫ Firmware Last Date
- ⑬ Cancel Button
- ⑭ Setting Button(After setting, the equipment restarts.)

E. Device Setting

Form_DeviceConfig

IP Addr: 192.168.254.102 Setting: 65001
Monitoring: 65002

System

Brightness: 5

Data Type: VerTech

Font Size:

VerTech MINI LED
Start:<STX>, End:<ETX>

Freem:-0905,MSG_NO=0001,BACK_COLOR=000000,CLEAR=1,
BRIGHTNESS=5

Network

Port: × 1 ~ 59999

RS232

Baudrate: 9600 Data Bit: 8
Parity Bit: NONE Stop Bit: 1

RS422

Baudrate: 9600 Data Bit: 8
Parity Bit: NONE Stop Bit: 1

LED Test Reload Setting

[SETTING]STATUS=CONNECTED

- ① Device IP/Setting Port/Monitoring Port
- ② LED Brightness(0 ~ 10 Step) (Default: **8단계**)
- ③ Data Protocol Type (Default: **VerTech**)
 - VerTech: VerTech Protocol
 - QBS: "Quadbit Mini LED" compatibility
 - KP Extrusion: "HankookTire KP Plant Mini LED" compatibility
 - CAS 10: "Cas Indicator" compatibility (10Byte)
 - CAS 18: "Cas Indicator" compatibility (18Byte)
 - CAS 22: "Cas Indicator" compatibility (22Byte)
 - MT Template1: "Mettler Toledo" compatibility
 - ▶ Font Size: CAS 10/CAS 18/CASE 22/MT... Can only be set when selected
- ④ Protocol Guide
- ⑤ TCP Server Socket Port (Default: **5000**)
- ⑥ RS232 Setting (Default: **9600,N,8,1**)
- ⑦ RS422 Setting (Default: **9600,N,8,1**)
- ⑧ Setting Test(Press the Settings button and then proceed with the test)
- ⑨ Reading Device Setting
- ⑩ Setting
- ⑪ Status Message

8. A/S Information

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