QM-133BD User's Manual

Revision 1.1

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Revision History

Revision	Date	Description	By
1.0	2018/08/15	First Release	Jerry Tsai
1.1	2018/08/31	Adding wireless charging function	Jerry Tsai

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1. QM-133BD Introduction

QM-133BD Includes 2 bonding types with touch panels, air and optical bonding. It's beneficial to slot machine designer to adapt, depending on customer request. Here's showing drawing for mechanical type and the photo of touch with smash hole.

1.1 QM-133BD Appearance

1.2 Safety Instruction

Strictly follow these Instructions for Use, please read these safety instructions carefully.

Remind to keep this User's Manual for later reference, and any use of the product requires full understanding and strict observation of all portions of these instructions.

Repair of the device may also only be carried out by trained service personnel. Quixant Plc recommends that a service contract be obtained with Quixant Service and that all repairs also be carried out by them. Otherwise the correct functioning of the device may be compromised.

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1.3 RF Instruction

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

- This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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2. QM-133 Specification

LCD	Size	13.3”
	Resolutions	1920x1080
	Display Colors	16.7M Colors (8-bit RGB)
	Brightness/Backlight	400 cd/m2 LED Backlight (270 cd/m2 Min.)
	Wide View Angle	178°/178° degree (Typ.)
	Contrast Ration	800:1 (600:1 Min.)
Touch	Touch Type	PCT Touch
	Touch point	Multi touch points (up to 10 fingers)
	Interface	USB Type B
	OS Support	Win7 (HID supported)
System	I/O	1x DVI-D port, 1x DP port, 1x USB Type B, 1x Micro-Fit (for wireless charger power input connector), 1x DC In
	OSD	Menu, Left, Power, Right, Auto
	Wireless Charger	15W, 1 x TX COIL (10W Min.)
Power	Input Voltage	DC In, 12 VDC ± 10%
	Power Connector	ELR-02V
	Power Consumption	45W Typical
Mechanical	Dimension (W x H x D)	693.4 x 249 x 42.8 mm
	Mounting	N / A
Environment	Operating Temperature	0~ 50° C
	Storage Temperature	-20 ~ 60° C (-4 ~ 140° F)
	Humidity	20 ~ 85% @ 40° C, non-condensing

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Firmware	AD Board	V1.1
	DDC/CI	Support
	Touch	4561-00_test7 (for QM-133BD-OPDR03 only)
Certification	Regulation (meet standard)	UL 60950-1, 2nd Edition, 2014-10-14
	EMC (meet standard)	EN 55032:2012+AC:2013, Class B

3. Function Key & Input / Output

3.1 Function Key Introduction

QM-133BD Function keys includes 5 buttons, introducing each as below:

Number	Function	Description
1(Right)	Menu/Enter	Activates OSD main menu
2	Left (Up)	Left/Up arrow
3	Power	Power On/Off
4	Right (Down)	Right/Down arrow
5(Left)	Auto/Exit	Exit/ Return Key
	LED	Blue : ON Red : OFF

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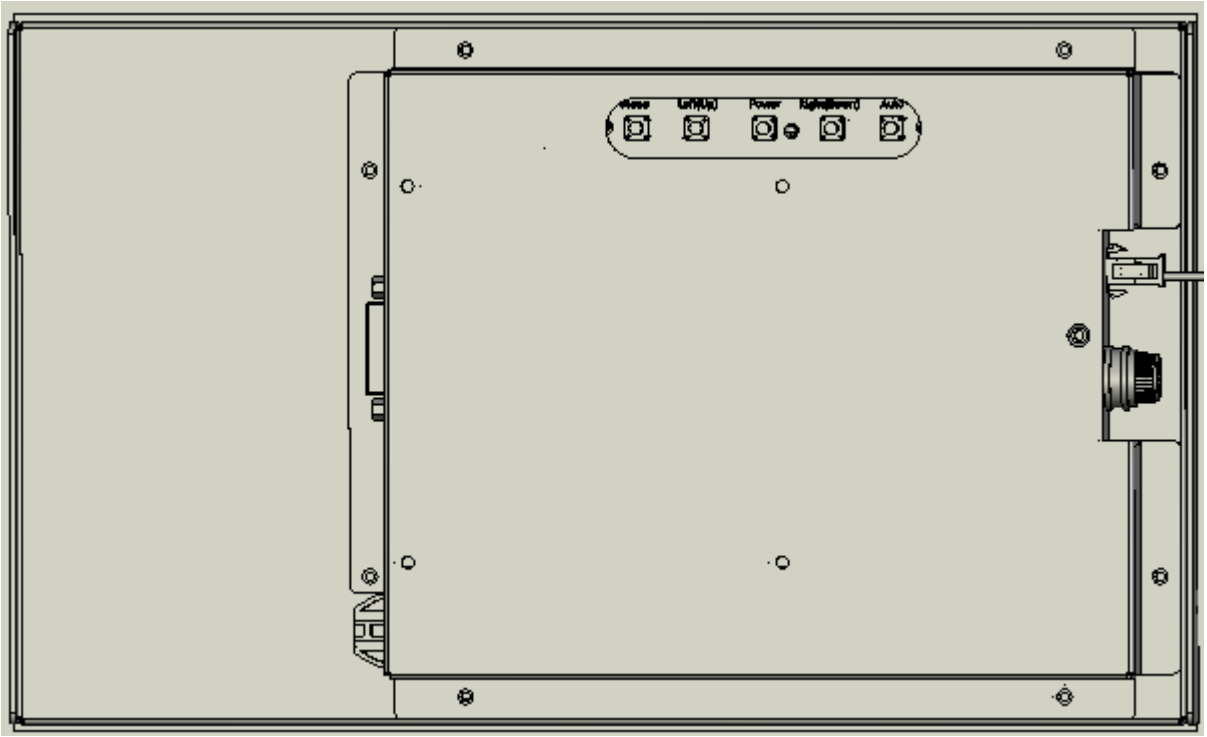

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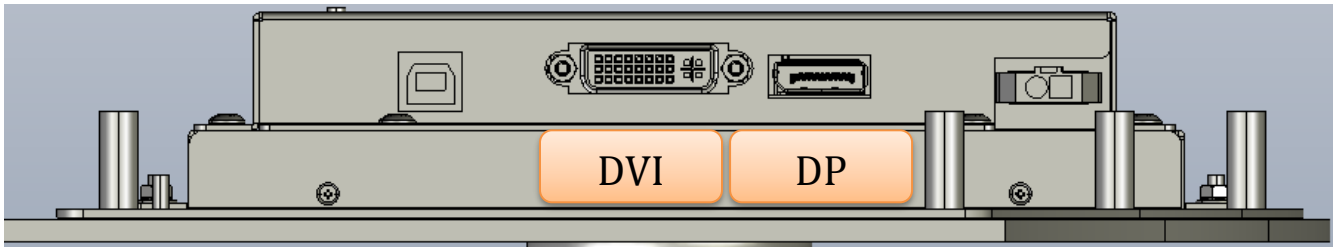
3.2 Input / Output

QM-133BD includes 2 connectors of display output, including DVI and DP. For touch function and power enable, it complies with 1 connector of USB type B for touch connection, and 1 connector of 2 pin for +12V DC power in.

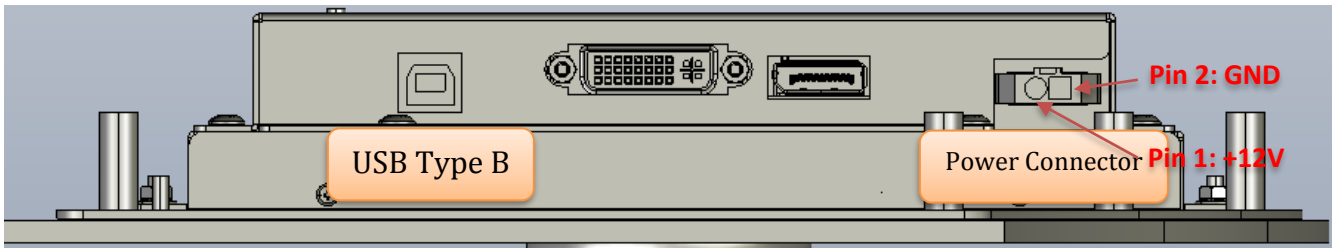
a. DVI & DP Signal Input



b. USB Type B & 2 Pins type Power Connector

Note: Power connector Pin definition:

Pin1	Pin2
+12V	GND



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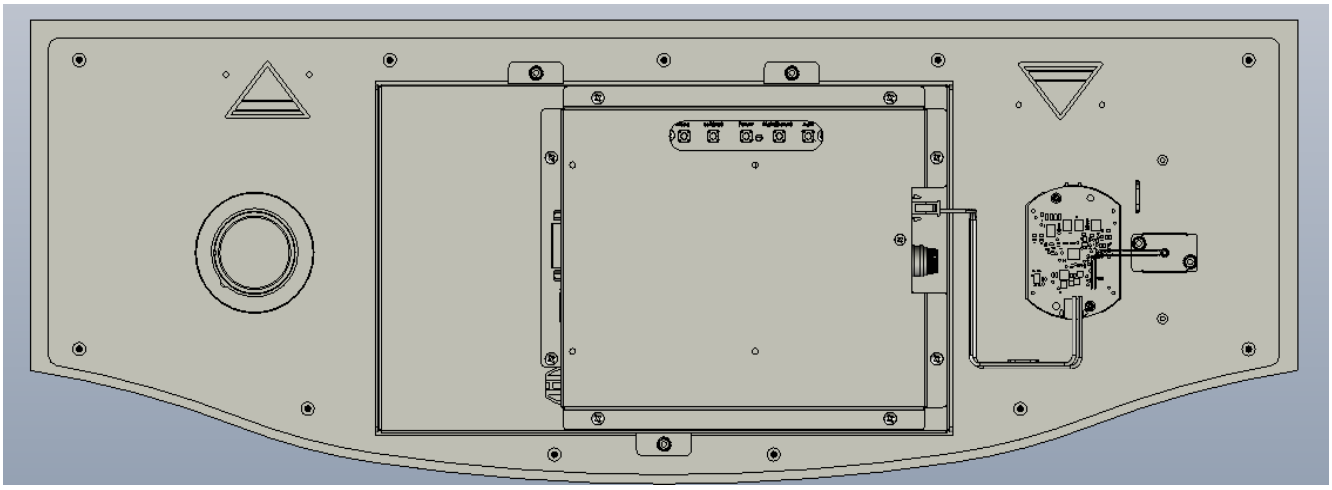
4. QM-133BD Mounting Design

QM-133BD design several mounting features for customer to fit in slot machine, which provide a solid stand onto slot machines. For details specification, please consult specification with Quixant.



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5. QM-133BD OSD Menu

5.1 OSD Menu

With advance display technology, QM-133BD OSD menu has 8 categories for user's using. The OSD menu contents "PICTURE, DISPLAY, COLOR, ADVANCE, INPUT, OTHER and INFORMATION".

a. OSD Main Menu

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b. **Adjusting and Saving**

i. **Choose a menu (for example: PICTURE), then Press "Menu" key to enter**

ii. **Choose an item (for example: Brightness), then Press "Menu" key to enter**

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iii. **Use “Left” / “Right” keys to adjust value, then Press “Menu” key to save**

iv. **The item of Brightness adjustment is completed.**

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5.2 OSD Default Setting

QM-133BD resolution totally complies with 1920x 1080 input. The following table shows all the adjustment menu's items and settings.

Blue color: means this function is supportive

Green color: means this function is not supportive

Main Menu	Sub-Menu	Range	Default	Remark
PICTURE	Brightness	0~100	52	
	Contrast	0~100	51	
	Sharpness	0~4	2	
DISPLAY	Auto Adjustment			when connecting with VGA
	H Position	0~100	50	
	V Position	0~100	50	
	Pixel Clock			when connecting with VGA
	Phase			when connecting with VGA
COLOR	Gamma	Off, 2.4, 2.2, 2.0, 1.8	Off	
	Color Temp	Off, User, sRGB, 5800K, 6500K, 7500K, 9300K	6500K	R=127, G=129, B=119
	Color Effect	Standard, Game, Movie, Photo, Vivid, User	Standard	
	Color Demo	Off	Off	
	Color Format	RGB, YUV	RGB	
	PCM	Native	Native	
	Hue	0~100	51	
	Saturation	0~100	53	
ADVANCE	Aspect Ratio	Full, Original, 5:4, 4:3, 16:9	Full	
	Overscan	On, Off	On	
	Overdrive	On, Off	Off	
	Energy Star	Off	Off	
	DDCCI	On, Off	On	
	Ultra Vivid	Off, L, M, H	L	
INPUT	Auto Select		V	
	DP			
	DVI			
OTHER	Reset			
	Menu Time	0~60	30	
	OSD H Position	0~100	50	
	OSD V Position	0~100	50	
	Language	English	English	
	Transparency	0~7	2	
	Trotate	On, Off	Off	
INFORMATION	Input			
	Resolution			
	H-Freq			
	V-Freq			
	PCLK			
	HDCP Status			

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6. Touch Function Installation

QM-133BD Touch function is designed to easily install. It complies with plug & play function, which allows user to enable the touch function by only connecting QM-133BD and operation systems with USB type B. Hence, the driver and utility is not required. If there's any driver installation question with various operating OS, please consult with Quixant.

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7. Wireless Charging Function

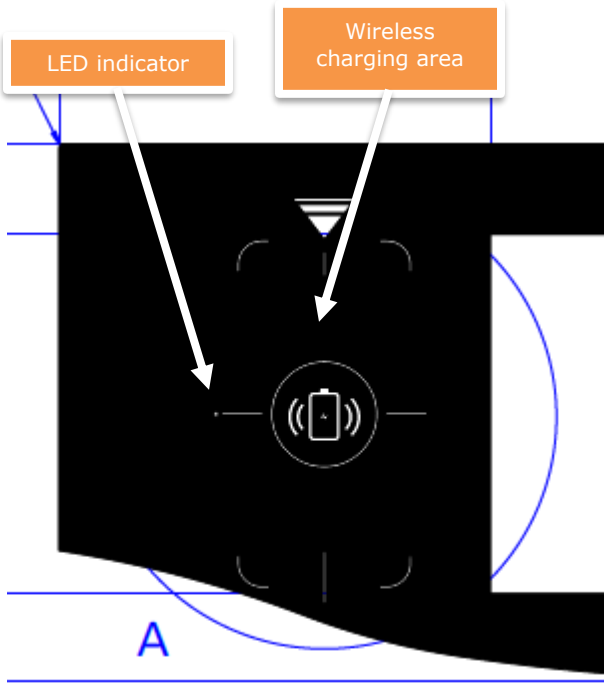
In the wireless charging area, you can charge the battery of your phone without connecting any cables to your phone. The device is compliant with the Qi standard.

- All wireless devices may be susceptible to interference, which could affect performance.
- Only qualified personnel may install or repair the device.

Charge your phone

It's simple: place your phone or another Qi-compatible device on the charging area to start charging.

- Place your phone on the charging area. The indicator light is blinking while the phone charges.
- It's normal for the charging area and phone to get warm while charging.
- LED indicator is blue when standby.



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