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# 1 General

## 1.1 Product Description

Honeybee is the main control console for LifeSizeLync Room System (LRS). It is a touch enabled device with 10.1inches capacitive multi-touch screen. The display resolution is 1280x800 and capable of processing 1080P signal. Honeybee is powered and connected through a signal USB cable. It requires 1.5A from USB 3.0 port and designed to be used with Double Black (LRS codec) only.



## 1.2 Model

LS-0001

## 1.3 Certifications

The product should comply with CISPR22/CE/IEC 60950-1

## 1.4 RoHS

All material of device should comply with Logitech 10 restricted Phthalates (Restrictions are applicable at homogeneous level, at a threshold of less than 1000ppm for each phthalate)

2.4.1 RoHS II

2.4.2 Reach

2.4.3 WEEE

2.4.4 Conflicted material

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## 1.5 Product Main special characteristic

2.5.1 Product needs 4m USB2.0 cable (A Type TO B Type, The outer shielding weave density is 85%, the dimension of power lines is 18AWG) for power and signal transmission.

2.5.2 non-PKG Drop testing criterion

Drop height: Drop height should be 30 inches (76cm)

Floor surface: The floor should be industrial carpeting (1/16" thick, looped pile, etc.)

Will updated when available.

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## 2 Mechanical Specifications

### 2.1 Product outline:



### 2.2 Main parameter

LCD Panel Features	
Item	Description
Display Technology	TFT LCD
Size (inches)	10.1"
Aspect ratio	16:10
Resolution	1280x800
Brightness (cd/m2)	220 (min)
Contrast	1000 (min)
Color Depth	262k colors
Vertical viewing angle	160 degree (min)
Horizontal viewing angle	160 degree (min)
Touch Panel Features	
Item	Description.
Touch Panel Type	Transparent Type Projected Capacitive Touch Panel

Size (inches)	10.1"
Number of channels	37 (H) X 24 (V)
Resolution	4736 X 3072
Report Rate	Max. 100 (Single Touch) Points/sec
Response Time	Max. 50 ms
<b>Touch Controller Features</b>	
<b>Item</b>	<b>Description.</b>
Capacitive Touch Sensor Controller	ILI2108u
multi-touch points	10 points
Operating System	Windows 7 \ Windows Embedded Standard 7
<b>Connections</b>	
<b>Item</b>	<b>Description.</b>
USB 2.0	1, B Type
<b>Key Buttons</b>	
<b>Item</b>	<b>Description.</b>
Adjust Brightness	2 buttons, Brightness +/-
<b>LED indicator</b>	
LED indicator	1, white LED
<b>Power supplier</b>	
<b>Item</b>	<b>Description.</b>
USB Power Supply from Host	5.0V, 1.5A
<b>Crystal</b>	
<b>Item</b>	<b>Description.</b>
25M	± 20ppm , 18pF
24M	± 20ppm , 18pF
12M	± 10ppm , 10pF
<b>Fuse</b>	
<b>Item</b>	<b>Description.</b>
TRF12-200V06-EF	Hold current = 2.0A, Maximum voltage =6V
<b>Accessory</b>	
<b>Item</b>	<b>Description.</b>
USB2.0 CABLE	4M, A Type TO B Type ,The outer shielding weave density is 85%, the dimension of power lines is 18AWG

## 2.3 Normal parameter

### 2.3.1 Operational:

NO.	Item	Min	Typical	Max	Remark
1	Power Supply Voltage	4.85V	5.0V	5.25V	
2	Power Supply Current		1.1A	1.5A	
3	Power Consumption		5.5 watts	7.5watts	
4	Standby Consumption			1watts	

### 2.3.2 Absolute Ratings of Environment:

NO.	Item	Range	Remark
1	Ambient Operating Temperature	5~40°C	
2	Operation Humidity	20%~90%	
3	Storage Temperature	-20°C~60°C	
4	Storage Humidity	10%~90%	

## 2.4 Button function Desc.

Button	Short press(less than 1s)	Long press(more than 1s)
'+'	Brightness play up 1 level	Brightness play up 1 level per 500ms
'-'	Brightness play down 1 level	Brightness play down 1 level per 500ms

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### **3 FCC WARNING**

#### **FCC Statement**

**This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radiofrequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.**

#### **FCC Caution**

**Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.**

#### **FCC Warning**

**This equipment has been tested and found to comply with the regulations for a Class B digital device, pursuant to Part 15 of the FCC Rules.**

**Operation is subject to the following two conditions:**

- (1) This device may not cause harmful interference.**
- (2) This device must accept any interference received including interference that may cause undesired operation.**