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MicroCue3
User Manual

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interspace
industries

Cueing and Presentation Control Specialists

Table of Contents

Handsets

<u>Laser Handset</u>
A slimmer, slightly longer handset that sits comfortably in your hand. A finger notch on the rear of the handset anchors it to your hand. Extensive redesign of the internal antenna means we have squeezed a little bit more distance out of this handset. Over 100m open field.

We use 2 batteries:- one for the transmitter, (AA or MN1500 size, 1.5V) and a separate battery just for the Laser (CR2, 3V). This is a high power/high capacity battery that is common in photographic systems and readily available.

Safe Laser Use
The Laser is Class 2, less than 1mW green 522nm laser. It is 10x brighter than an equivalent red laser.
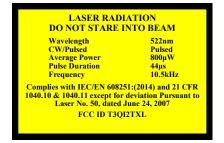
It is important to use the laser in a safe manner by highlighting your images on screens. It is not advisable to use a laser on a monitor that has a glass front, or something similar, as the reflection of the beam could reflect into someone's eyes and may cause discomfort or worse. Use the beam in either a circular or backwards and forwards motion to circle an outline, highlight an item being discussed or, underline something.

<u>CAUTION – Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure</u>

DO NOT SHINE INTO THE SKY AT AIRCRAFT —
You will be arrested, fined and imprisoned in many countries!

LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT

LASER RADIATION
DO NOT STARE INTO BEAM

Wavelength	522nm
CW/Pulsed	Pulsed
Average Power	800µW
Pulse Duration	44µs
Frequency	10.5kHz

Complies with IEC/EN 608251:(2014) and 21 CFR 1040.10 & 1040.11 except for deviation Pursuant to Laser No. 50, dated June 24, 2007

FCC ID T3QI2TXL

Notes

Introduction, features and benefits

MicroCue3 (MC3) has been designed for the presenter of small to medium sized shows, where reliability is paramount for the remote cueing of presentation images or slides on a computer.

With the continued march of the computer, more than just one are being used on a show for backup and for a slide ahead, so the presenter knows what is the next slide coming. They can align their speech to fit the next slide if they do not know it from memory.

MicroCue3 has been designed for increased reliability, building on the MicroCue2 product.

RF range has been the same on all our products of 100m with our new handset. However position and environment has called MicroCue2 into question.

Using a LCD screen gives full access to both text and graphics.

As this is "3" in the series then we should follow with 3 USB ports to control external computers.

It is still USB powered, The use of the optional external DC power allows a remote unit to be powered on the **i2Net** without plugging it in to a local USB port - great as a remote RF receiver.

i2Net has been developed for long distance on cable (greater than 1500m) with power and data on 2 pairs plus screen.

Using a network infrastructure we can connect 2 or more MC3 units together and share resources such as handsets, lamps and more in the future

Auto share of handsets over a network connection ensures all handsets are valid. Only when the unit is powered down do the "network" handsets get forgotten and reset back to the state prior to the network connection.

USB port enable or disable to manage control of attached computers.

Audio - a mini jack 3.5mm stereo connection allows for the audio tones corresponding to Next, Back and Black out commands can be heard on a headset with adjustable volume from the front panel.

Operation,

Software update
- it is important to ensure all the connected MC3 units are all running the
same software revision*, failure to do this could result in unforeseen operation.*

Check regularly for software updates on www.interspaceind.com web site. For PC only. Attach a PC to USB port 1 and run the update—select the button that says "check for updates" - follow its instructions and the MC3 will be updated.

Place the **MicroCue3** in a clear space for viewing and in good clear line of sight to the presenters and their handsets. Ensure the aerial is pointing up for the best reception.

Using the supplied micro USB cables - connect the MC3 to the (working) computer using port 1 first for convention. (see "items included")

If this is the first time of plugging in, the computer must have a minute or two to configure itself. The computer should come up to say the device has been configured correctly. (see "first time connection") Do not unplug or use during this time or you may corrupt the installation!

Do a walk test with the handset and check for any dead spots of operation - you may have to move the receiver if this occurs or set up a 2nd **MicroCue3** unit as a receiver near the presenter. Bear in mind an empty venue (no audience) can change significantly especially if they are between the presenter and the receiver (MC3).

Check you have the handsets for the receiver - delete rogue handsets if need be. (see "erasing handsets")

The presenter uses the simple yet powerful handsets of Interspace Industries. The technician uses the main unit as a powerful resource for ensuring a cue gets through with visual and audible monitoring if needed.

Should you wish to use a different command than the "arrow right, arrow left" for the cues, please see "Keyboard command programming"

Once plugged in on USB the corresponding port enable switch will illuminate to say it is connected and active.
If a port switch starts to flash it means the Port has been disconnected or gone to sleep, this is to give the technician information to reset the USB connection if needed such as re-plugging it.

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publitec Präsentationssysteme & Eventservice GmbH
+49 2330-8032-0

Hotline für technischen Notfall-Support außerhalb der Geschäftszeiten:
+49 163-8032-11
(Morgens von 7:00 – 8:30 Uhr, Abends von 18:00 – 22:00 Uhr, sowie am Wochenende von 7:00 – 22:00 Uhr)

Website:
www.publitec.tv

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Per aprire un ticket di assistenza:
https://www.agmultivision.it/supporto.html

Sito Web:
www.agmultivision.it

First time connection.

The MicroCue3 uses the inbuilt driver with the computer's operating system for USB devices. As you plug each port of the MC3 to a computer's USB connection, the computer will configure itself, it is important to let it do this without unplugging it or really using it. Wait for it to say (in the case of PC) it has configured the device and is ready to use. - If the port has been installed incorrectly it could have problems for subsequent installs and you will have to uninstall the device. - please consult your IT manager for this function. Usually there are no issues and as soon as it is installed you can use it fully.

Adding a Handset.

When you need to add a new handset. Push the menu jog button and it shows learn at the top. Push again to select, Learn Handsets is displayed, push again. Push any button on that handset and then push the Jog button to confirm it is that one. - the handset is stored.

Erasing

There are a couple of options on MC3 to remove handsets.
1st, select the menu jog button and select **Erase** and then **Erase Handsets** and then to erase all handsets, select **yes.** This will erase all handsets, this is a good place to be and will ensure you have a good starting point for handsets.
When on the Network, it will erase all the handsets on that unit (both local and from the network) and also send a message to erase those handsets from all other units that have copied from the initial unit. All other units will keep their locally stored handsets.

2nd, Select **Erase All** this will erase Handsets and Keyboard functions - this is factory reset and will ensure a proper starting point for everything on that unit.

3rd, Select Erase Handset xxx - this will allow you to select which Handset you need to erase if you are mid show without upsetting all the other handsets and features.

4th, Network erase. A global erase for everything on the network. WARNING THIS WILL ERASE EVERYTHING BACK TO FACTORY SETTINGS. This has an additional confirmation to ensure you really want to.

Keyboard Command Programming

The cues of the MC3 are factory set at :- right cursor arrow for NEXT, left cursor arrow for BACK and the letter "b" for Black out. These cues can be reprogrammed using an external USB keyboard.
Prove the Keyboard works with the system (we are adding more all the time) by showing that it controls your host computers.
Enter the menu system and select **Learn**, - now select **Learn keyboard**, - follow the menu guide and deselect the ports you do not want programmed.
Enter the key or sequence of keystrokes required and then select on a handset which button you want the feature for it to be assigned to.
Each time you now select that button on the handsets on those ports it will have that key or key sequence sent.

Keyboard Control (additional info)

With the features of the Keyboard programming feature you can see that one keyboard can control all the computers connected to that MC3, this is very useful for editing. All the computers can be edited, such as typo errors at the same time for a very fast on show edit :- keyboard save and run show, all from the keyboard.

Add a handset to a specified port
To follow in a future software update

Remote deselection of port
To follow in a future software update

Remote control
The ability to control other MC3 units' Port enable buttons, on the network. This allows the lectern unit to be disabled when not controlling that computer.

Volume

Using your own supplied headphones adjust the volume level of the beeps to a comfortable level to hear. We would recommend standard 32 ohm impedance headphones.

Radio Frequency System

A proven RF system for all wireless applications.

Operating frequency:	434.075MHz (UK, Europe & USA)
Transmission method:	FM (Pure FSK)
Maximum transmit power:	10mW (EU) 11mV/m @3m (USA)

This frequency is open and licence exempt for UK, Europe and USA. Other countries should consult their respective authorities.

The system used is a coded transmission whereby the receivers are programmed to the transmitters which each have individual and unique codes. Nominal range of the transmitters is typically 75M in an enclosed venue.

Safety Instructions

All safety and operating instructions should be read before this product is operated and should be retained for further reference. Please adhere to all the warnings on this product and in these operating instructions. Please follow these instructions carefully.

Power. Only use the power source indicated on the device. Devices equipped with a grounded plug should only be used with a grounded type outlet. In no way should this grounding be disconnected, modified or suppressed.

Keep Away From Harmful Substances

To prevent the risk of electric shock and fire, do not expose this device to rain, humidity or intense heat sources (such as radiators or direct sunlight). Avoid using this equipment in environments where there is excessive heat, dust, moisture, chemicals, vibration or mechanical shocks.

Slots and Openings. These are designed into the device for ventilation and to avoid overheating. Always ensure these openings remain clear. **Do not attempt to insert anything into these openings under any circumstances.** If liquids have been spilled on, or objects have fallen into the product it must be checked by a qualified technician before re-using.

- **DO NOT OPEN SYSTEM DUE TO HIGH VOLTAGE.**

- **DO NOT IMMERSE IN WATER.**

If you have any queries regarding these safety instructions or how to maintain the unit please do not hesitate to contact us on:

moreinfo@interspaceind.com   —   www.interspaceind.com

Servicing. Do not attempt to service this product yourself. Should an unauthorised person attempt to either open the covers or service our products, it may invalidate your Limited Factory Warranty. In addition, opening or removing covers and screws may expose you to electric shocks or other hazards. Refer all servicing to qualified service personnel.

Environmental

WEEE and RoHS Compliance. This product been manufactured and sold in accordance with the requirements of the EC WEEE and RoHS directives. Please return all end-of-life items to your supplier, or Interspace Industries directly, for appropriate disposal.

Packaging Materials:
Cardboard box: Grade 150K/T 'B' (Single Walled Corrugated- Brown Kraft)
Protective Foam: Grade HLB 22 Grey Foam (High Load Bearing)

Network Power.

If using the i2Net you have a couple power options. The USB power used for the unit does not have enough energy to place power on the Network as well,

Use a computer or USB power at both
Use 12V-30V DC at either end will allow a diversity Aerial system and additional products such as Confidence lamp and wired button.
A separate i2Net power supply can be used for local power and to help with very long cables.

Settings

Brightness
Adjust the brightness of the screen for the environment you are using it in.

Unit ID
Shows the unique net addresses of the devices on the network - No auto hide on cue.

Diagnosis

i2Net Pwr -	shows the current Voltage at that unit from (or out to) the network
Balance -	shows that the data presented to the unit is in balance i.e. not a broken cable and missing pin 2 or pin 3.
RX & TX-	Data Packets sent and received to the network shows data is present.
CRC-	Errors of data - corrupted data
NVM-	Read/Write Cycles, to show memory storage cycles

Items included

Single system

Qty	Part
1	**MicroCue3**
3	USB A to USB micro
1	Handset (2 or 3 button with or without Laser)

Pro twin system

Qty	Part
2	**MicroCue3**
6	USB A to USB micro
2	Handsets (2 or 3 button with or without Laser)
1	DC 12V power supply
1	Hard plastic professional carry case.

FCC COMPLIANCE INFORMATION STATEMENT
DECLARATION OF CONFORMITY

Manufacturer:	Interspace Industries
Responsible Party in the USA:	Interspace Industries LLC 72 Grays Bridge Road Suite 1-C, Brookfield CT 06804 Main number 203-814-1879
Product:	MicroCue3
Authorisation Procedure:	Declaration of Conformity

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.

We, Interspace Industries, have determined that the above named equipment has been shown to comply with the applicable technical standards. Furthermore, we warrant that each unit of equipment marketed is identical to the unit tested and found acceptable with the standards. The records maintained continue to reflect the equipment being produced within the variation that can be expected due to quantity production and testing on a statistical basis.

David J Humphrys, Managing Director
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April 3rd 2018

interspace industries

FCC COMPLIANCE INFORMATION STATEMENT
SUPPLIERS DECLARATION OF CONFORMITY

Manufacturer:	Hive Industries Ltd, Unit 7, Polaris Centre, 41 Brownfields Welwyn Garden City AL7 1AN, United Kingdom
Responsible Party in the USA:	Interspace Industries LLC, 72 Grays Bridge Road, Ste 1-C, Brookfield, CT 06804 United States of America
Product:	MicroCue3, - Stock codes – MC3, MC3-L, MC3-LTFC
Authorisation Procedure:	Suppliers Declaration of Conformity (SDoC)

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.

We, Hive Industries our brand, Interspace Industries and responsible party Interspace industries LLC, have determined that the above named equipment has been shown to comply with the applicable technical standards. Furthermore, we warrant that each unit of equipment marketed is identical to the unit tested and found acceptable with the standards. The records maintained continue to reflect the equipment being produced within the variation that can be expected due to quantity production and testing on a statistical basis.

April 3rd 2018

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