# CB Electronics

# TMC-1-MMP1 Monitor Remote

## Use with the TMC-1Reference

Provisional 0.0

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# Yamaha MMP1

## TMC-1-MMP1 User guide

This document only describes the Ethernet connections of the TMC-1 and any differences in operation. Please refer to the TMC-1 Reference which is available from the main TMC-1 Web Page.
http://www.colinbroad.com/cbsoft/tmc1/tmc1.html

## Ethernet Connection

The TMC-1 communicates to the MMP1 via Ethernet, when connected to the network it will discover any connected MMP1's and display them. If it has been paired with a MMP1 and recognised the Serial number it will select the paired MMP1.

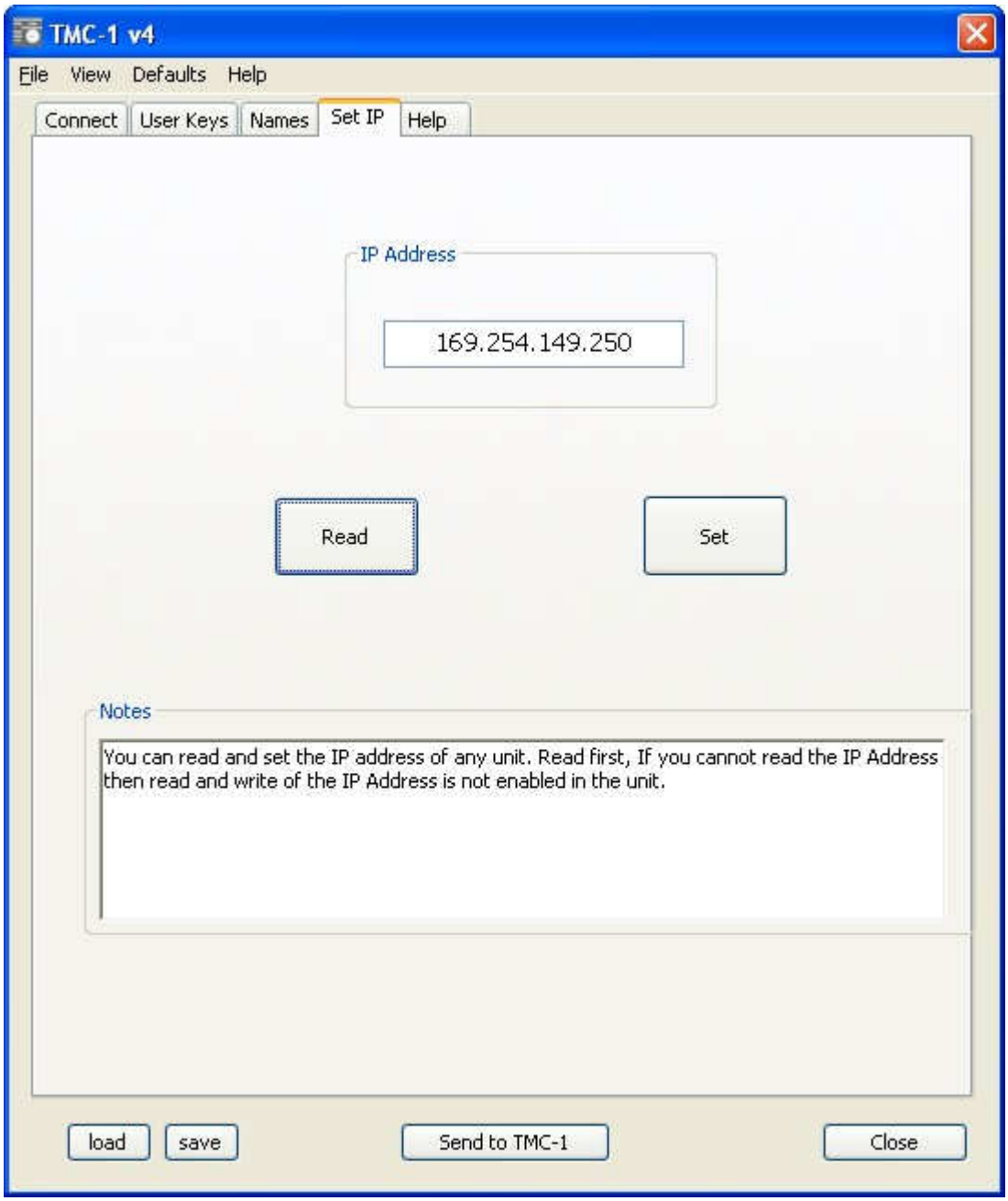
To check the Ethernet connection depress [Select] and [Page] together to enable the Page select menu. From the Page select menu depress the [E-Net] key to display the MMP1 pages. Use the [<] and [>] keys to step through.

**Note 1:** Once the TMC-1 discovers the MMP1 selecting the MMP1 on the TMC-1 Discovery page will set the TMC-1 to be on the same subnet as the MMP1.

**Note 2:** It may be necessary to set the subnet address of the TMC-1, the default IP address of the TMC-1 is 169.254.149.250. If you have a DHCP server on your network use the DHCP key on the Discovery page to select a free IP address, If not you can set the IP Address of the TMC-1 using the TMC1v5 or Midiupd Mac/Windows programs

**Note 3:** The MMP1 serial number & Mac address is unique to each unit and are used to define the destination instead of the IP address.

## Setting the TMC-1 IP Address from the TMC-1-win/mac program



# MMP1 4.1 Implementation

The TMC-1-MMP1 and MMP1 are both new, not everything is implemented at this time, Yammaha have provided restricted access to the MMP1 functions to the TMC-1. More functions are available in the iPad emulation mode.

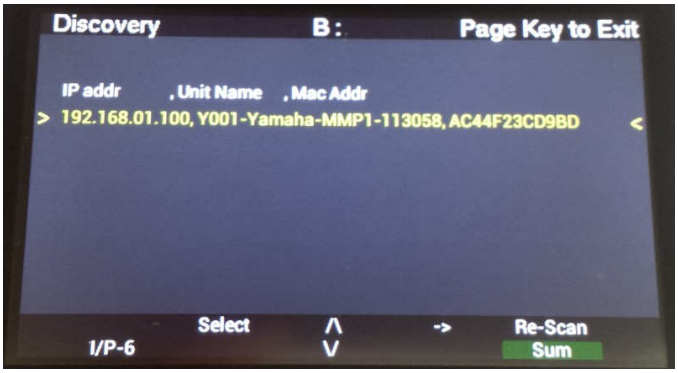
| Function | Details | Connection/Notes |
|---|---|---|
| Input and output names | Not available from MMP1 | |
| Control Room Gain Control | 1 dB steps | |
| Dim | The Dim action is set by the MMP1 Editor | The TMC=1 reads the MMP1 setting |
| Mute | Control from both MMP1 Remote App and TMC-1 | |
| Cal-A, Cal-B | Independent on MMP1 Remote App and TMC-1 | |
| Source Selection | 8 inputs: | Only available in iPad emulation |
| Source Summing | | Only available in iPad emulation |
| Speakers Set Selection | Up to 4 Sets – Default 3 Sets Main, Alt, Mini | Control from both MMP1 Remote App and TMC-1 |
| Speaker naming | The TMC-1 reads the fist 7 characters of the speaker name from the MMP1 in iPad emulation mode | |
| Cue Inputs | The TMC-1 will select the last 3 inputs as Cue in 1, Cue in 2, Cue in 3. | |
| Cue outputs | Define on the MMP1, the TMC-1 can control up to 4 cue sends and will read the first 7 characters of the name | |
| Cue output source selection | Link to Control room source, Cue in 1, Cue in 2, Cue in 3, T/B 1, T/B 2 | |
| Talkback Input | Internal and External T/B Mic's can be defined | Routing controlled from TMC-1 only displayed on MMP1 |

| | | |
|---|---|---|
| | | MMP1 Remote App. Gain control from both MMP1 Remote App and TMC-1 |
| Listen Inputs | One input only | Control from both MMP1 Remote App and TMC-1. Gain control from both MMP1 Remote App and TMC-1 |
| Bass management | Use the [Bass-X] user key on the TMC-1 | Control from both MMP1 Remote App and TMC-1. |
| LFE +10dB | Use the [LFE+10] user key on the TMC-1 | Only available in iPad emulation |
| MMP1 Phones O/P | [Phones] User key on TMC-1 | Controlled from both MMP1 Remote App and TMC-1 |
| AFL Gain and Switching | No tally available from MMP1 | |
| Mono | Not yet available on MMP1, | |
| Individual Speaker Trims | | Only available in iPad emulation |
| Input Trims | | Only available in iPad emulation |
| Snapshot Selection | User keys Snap1 - Snap- | |
| Scene Selection | User keys Scene1 - Scene5 | |
| Cough | User keys Cough1 - Cough8 | |
| IPad Remote Emulation | Advanced Menu 24 - The TMC-1 can switch the TMC-1 to iPad emulation mode | |

## MMP1 E-Net Pages

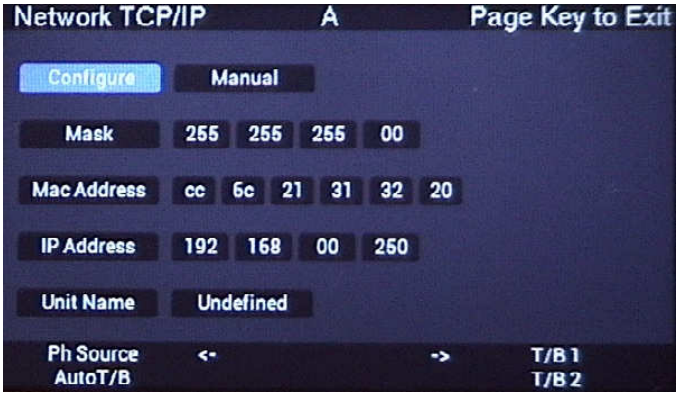
### Discovery

This page displays the MMP1 units discovered by the TMC-1 (Max 4). The unit highlighted in Yellow is the currently connected unit. To select, use the [<] and [>] keys and then depress the [Select] key.



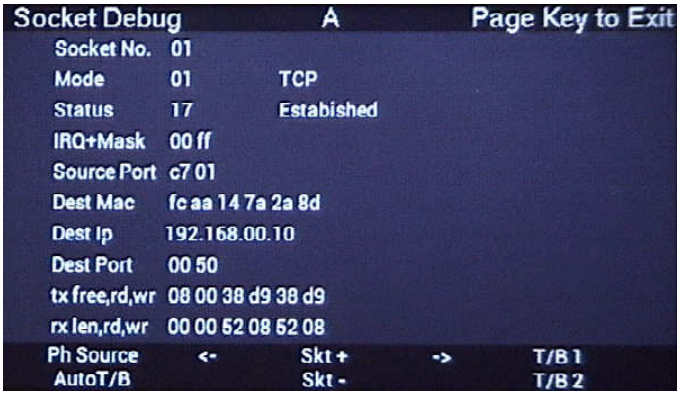

### Network Page:

This Page shows the current setup of the Network connection. The TMC-1 copies the subnet address from the selected MMP1 on the Discovery page, the last number (249 in the image) may be defined from the "TMC1-MMP1" program on Mac or Windows with the Unit Name.




### Socket Debug:

Used to debug systems, You can change the socket number using the [+] or [-] keys.
Socket 00 = Discovery and setup
Socket 01 = MMP1 Control
Socket 02 - Meters




## Other MMP1 Pages

## Cue Sends Page:

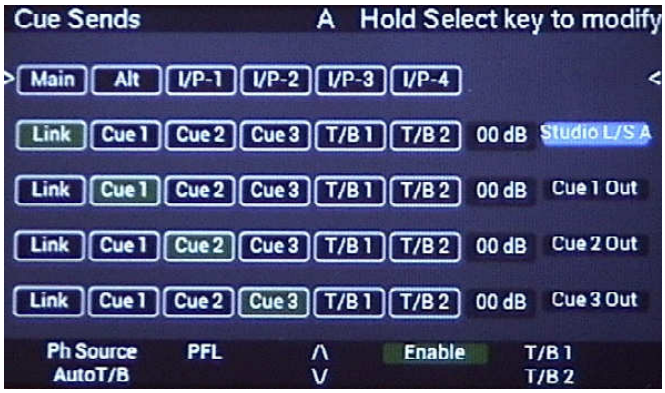
[Enable] mute/unmute the selected output.

[PFL] will root the selected cue output to the current monitor output

[Link] with route the current control room source to the selected cue output

Talkback routing must be specified on this page

Depress the [Select] key to enable the source selection and gain for the selected cue output as shown in the lower picture.



# LFE +10

The [LFE+10] user switch will enable/disable the LFE +10 setting on the MMP1

# Stereo Downmix

The [St Down] user key will enable/disable the stereo downmix on the MMP1.

# Talkback

The Main difference between TMC-1 and MMP1 is the way in which the talkback routing is defined. The TMC-1 provides engineer (T/B 1, T/B 2 ,T/B All) and Producer (T/B 1x, T/B 2x ,T/B Allx) to 3 groupes of destinations. T/B 1 and T/B 2 destinations are defined by the user on the TMC-1 'Cues Page'. SLS is routed to Studio Speaker 1, Cue 1, Cue 2 and H/P are routed to cue outputs 1, 2 and 3.

The Engineer talkback keys [T/B 1], [T/B 2] and [T/B All] adjust Trims 1-1 and 1-2 .

The Procucer talkback switches [T/B 1x]. [T/B 2x] and [T/B Alx] that adust Trims 2-1 and 2-2.

## Auto-Dim

If "Auto-Dim on Talkback" is enabled on the MMP1 session settings then the MMP1 Dim control will be used by the TMC-1. If not then the TMC-1 will use its Dim Setting to adjust the gain of the MMP1.

# Cue Monitoring Mixer

| TMC-1 Label | MMP1 Label |
|---|---|
| SLS (Studio LS) | Cue 1 |
| Cue 1 | Cue 2 |
| Cue 2 | Cue 3 |
| H/P (Headphones) | Cue 4 |

# Case Study:

# TMC-1 Software Update

The software is updated via the USB port using our MIDIUPD program which is available from the TMC-1-MMP1 or TMC-1-XMon MMP1 Remote App.

http://www.colinbroad.com/cbsoft/tmc1/tmc1MMP1.html

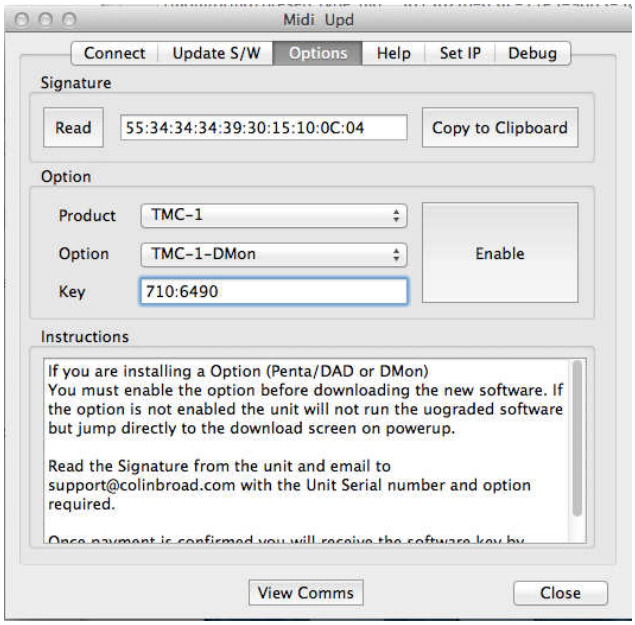
Note. When upgrading from TMC-1-Xmon to TMC-1-MMP1 an upgrade key must be purchased and the MMP1 Option enabled before the MMP1 software is installed. If you install without enabling the MMP1 Option the TMC-1 will jump directly to the software Installation page.

## Installing the MMP1 Option

Connect to the TMC-1, (you may have to select the in and out ports). Read the Signature (55:34:34:34:39:30:15:10:0c:04 in this example) from the chip.

E-Mail to support@colinbroad.com

Once confirmed you will receive the software key (710:6490 in this example) by email, cut and paste this into the key window, Make sure that the Option Window shows "TMC-1-MMP1" and click on the Enable button.



# HD15 Connector (XMon)

The XMon connector is available on the TMC-1-MMP1 for the following

## Talkback Microphone and Headphone

The TMC-1 provides an analogue Talkback Microphone with preamp and Headphone connection which are connected to the HD15 connector. To use connect to Analogue Inputs and outputs on the MMP1.

The TMC-1 is designed for systems that sum the two mic inputs and then have two separate routings both of which are available to each input. To achive this the talkback routing MUST be setup on the TMC-1 as this overrides the talkback routing in the MMP1.

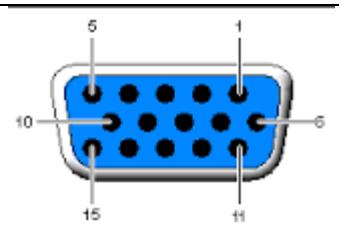
### Internal Talkback Microphone

An electret mic amplifier is provided on the TMC-1, normally connected to the internal microphone. A 3.5mm Jack on the rear is provided to that a suitable external "Laptop Mic" may be used. The mic output is on the HP15 pin connector and may be configured with a balanced or unbalanced output.

### Headphone Jack

The headphone jack is connected directly to the HD15 pin connector. The input is unbalanced with two ground returns.

HD 15 Connector fitted to TMC-1 units is use for Talkback and Headphones

| HD 15 Connector is fitted to later TMC-1 Units | |  | |
|---|---|---|---|
| Pin | Hardware configuration | Function | VGA cable Notes |
| 1 | Analog Output | T/B Mic O/P | Screened |
| 2 | Analog Input | Headphone Right I/P | Screened |
| 3 | Analog Input | Headphone left I/P | Screened |
| 4 | O/P | Midi Out - | Check Connected in Cable |
| 5 | I/P | RS422 Rx - | Normally Connected in Cable |
| 6 | Gnd | T/B Mic Ground | |
| 7 | Gnd | Headphone ground | |
| 8 | Gnd | Headphone ground | |
| 9 | Gnd | Ground | |
| 10 | O/P | RS422 Tx - | Normally Connected in Cable |
| 11 | I/P | Midi In - | Check Connected in Cable |
| 12 | I/P | Midi In + | Check Connected in Cable |
| 13 | I/P | RS422 Rx + | Normally Connected in Cable |
| 14 | O/P | RS422 Tx + | Normally Connected in Cable |
| 15 | O/P | Midi Out + | Check Connected in Cable |

# TMC-1 Fault Finding

Actual Faults reported and cause

| Fault | Cause |
|---|---|
| MMP1 Not Discovered | It may be necessary for the MMP1 and TMC-1 to be on the same subnet.<br><br>The TMC-1 has a 100Mbps Ethernet connection, check that the computer port or network switch is set correctly |
| Talkback not working | The talkback routing must be specified in the TMC-1 cue sends page. |
| Input Selection Not Working | Check that L/B is Not enabled |
| Unexpected L/B, talkback, SLS or Monitor Enable/mute | Check Auto-Mute |
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