

# Device: NewTek TriCaster Mini + TC1



## Introduction

The integration with TriCaster Mini is performed on a

- NewTek TriCaster Mini SDI Advanced Edition w. Build Number: 5-1-180323C (SDI 180323)

The integration with TriCaster TC1 is performed on a

- NewTek TC1 Advanced Edition w. Build Number: 7-0-181102C

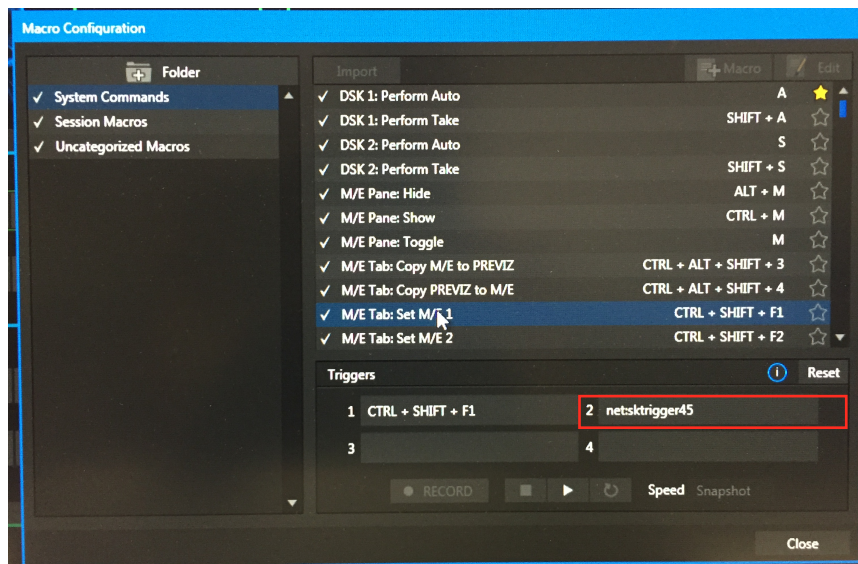
As we understand it other NewTek systems such as the VMC1 runs the same protocol as the TriCaster Mini + TC1, so potential the Device Cores might work. However this have not been tested and support for other systems besides the TriCaster Mini and the TriCaster TC1 are not officially supported.

For a controller with the TriCaster Mini + TC1 Device Core to work a matching static IP must be set on the TriCaster.

Our default configurations for NewTek TriCaster Mini + TC1 usually involves activating a number of Macros. In the NewTek TriCaster Mini + TC1 Device Core this action is called "Trigger".



If the shortcut is not defined the same way as instructed in this manual, the desired action will not properly be triggered. A example below shows the "Trigger" necessary to be defined in order for our controller to activate that particular macro.



The relevant Macros can be found here: <https://github.com/SKAARHOJ/Support/tree/master/Manuals/NewTekMacros>

Here is a overview of the Macros utilised on the TriCaster Device Cores

### **System Commands**

- 2: M/E Pane: Toggle
- 9: Workspace: Show Interface A
- 10: Workspace: Show Interface B
- 11: Workspace: Show Interface C
- 12: Workspace: Show Interface D
- 34: Switcher: Copy Main to PREVIZ (Also opens PREVIZ Tab)
- 35: Media Player: Next
- 36: Media Player: Play
- 37: Media Player: Previous
- Tabs:
- 39: Tab: Show BUFFERS
- 41: Tab: Show DDR1
- 42: Tab: Show DDR2
- 43: Tab: Show GFX1
- 44: Tab: Show GFX2
- 45: M/E Tab: Set M/E 1
- 46: M/E Tab: Set M/E 2
- 47: M/E Tab: Set M/E 3
- 48: M/E Tab: Set M/E 4
- 49: TAB: Show PTZ
- 50: Tab: Show Audio mixer

### **Session Macros**

- 21: PiP Left
- 22: PiP Right
- 31: main\_background\_select\_index=0 (Transition number 1 selection)
- 32: main\_background\_select\_index=1 (Transition number 2 selection)
- 33: main\_background\_select\_index=2 (Transition number 3 selection)

An excerpt of the list of NewTek TriCaster related actions.

```
Tricaster TC1: Program Src
Tricaster TC1: Preview Src
Tricaster TC1: Prv/Pgm Src
Tricaster TC1: MIX Src
Tricaster TC1: Transition Pos
Tricaster TC1: Take
Tricaster TC1: Auto
Tricaster TC1: FTB
Tricaster TC1: Downstream Key
Tricaster TC1: Downstream Key Source
Tricaster TC1: PTZ
Tricaster TC1: PTZ Preset
Tricaster TC1: Audio Volume
Tricaster TC1: Audio Levels
Tricaster TC1: Audio Mute
Tricaster TC1: Trigger
Tricaster TC1: Record
Tricaster TC1: Stream Toggle
Tricaster TC1: Grab Still
Tricaster TC1: Tally
```

### Notice about Audio VU meter feedback data

With our current Device Core integration on the TC1 a SKAARHOJ controller will perform less optimal if it receives Audio VU meter data, due to the amount of data needed to be processed. Therefore it is turned off by default. If a source is muted/turned all the way down (you are not seeing VU meter data in the TriCaster Audio Pane) no data is transmitted. If a controller is set to receive VU meter data and all 16 sources + DDR + Sound + Effects + Talkback + Phones + AUX are transmitting VU meter data, performance is severely degraded. If between 5-8 sources are transmitting VU meter data performance is better. See the "Device Configurations" section to learn how to enable "Audio VU meter feedback data" on the TC1 Device Core.

### Binary Output

The actions: Recording, Streaming and DSK Keyer Toggle have implemented binary output feedback.

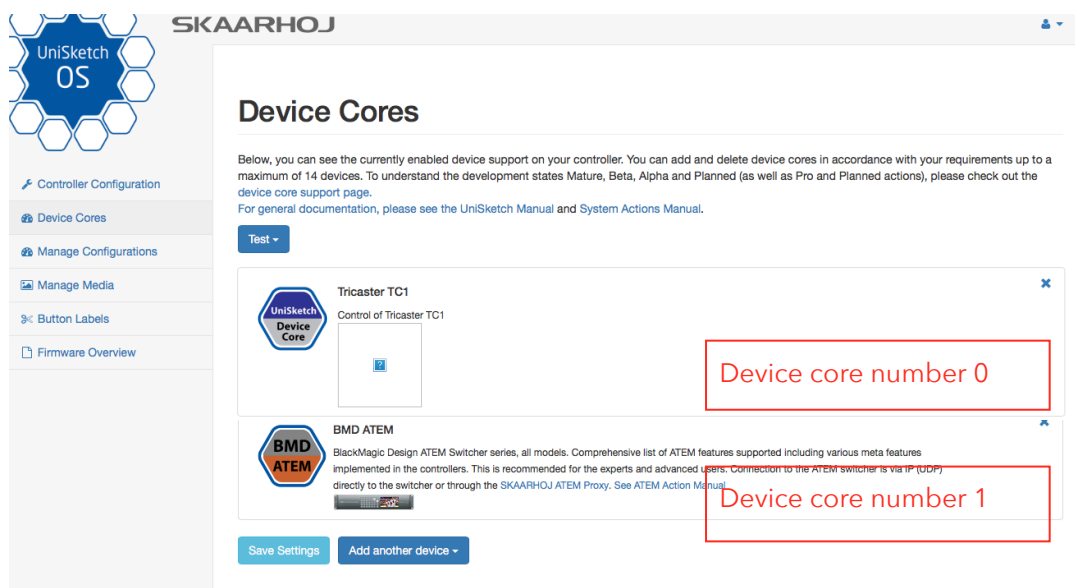
## Device Configurations

Device configuration options exist for the **NewTek TriCaster TC1**:

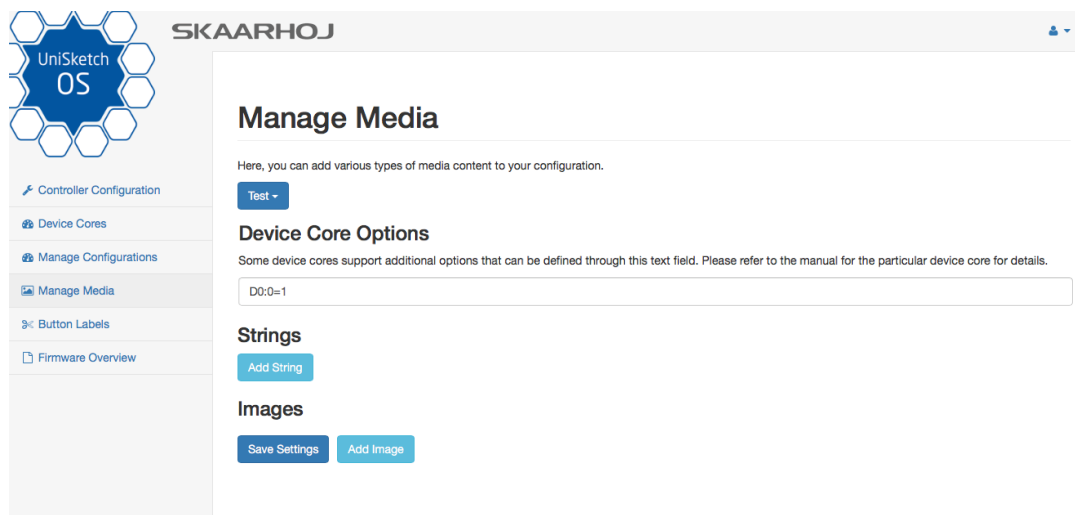
- Index 0: **Audio VU meter feedback data**
  - If "0" = Default (off)
  - If "1" = On

Activating "Audio VU meter feedback data" could look like this device configuration code: "D0:0=1" where the general form would be "Dx:y=z" where "x" is the number of the device core as installed on the controller (starting with zero for the first device core), "y" the index number and "z" the value for that index.

If the TriCaster Device Core is the first like below:



Activating VU meter data would be set by this configuration under "Manage Media" on the configuration page for your controller. Access this by pressing "Online Configuration" in the Firmware Application. Remember to save on the configuration page *and* press "Check for updates" in the Firmware Application.



To confirm that a device configuration is in fact detected by the controller, please check it out on the serial monitor where it will be mentioned:

```
DeviceCore #0: Tricaster TC10, IP = 192.168.10.157  
Tricaster TC1: Activating audio levels. Performance MIGHT degrade.  
setup() Done  
-----
```