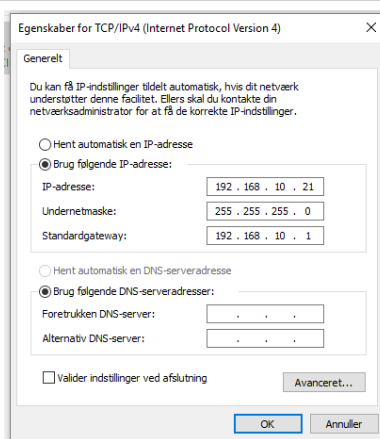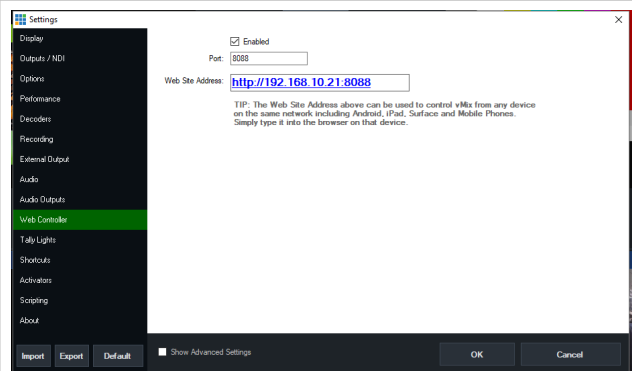# Device: vMix

Introduction

vMix can be controlled by installing the vMix Device Core on your UniSketch OS based SKAARHOJ controller and by utilising the vMix Bridge Application. The vMixBridge software is required at this stage in order to bridge communication between a SKAARHOJ unit and the vMix application. Please download the vMixBridge at www.skaarhoj.com/support/device-cores/vmix/

Notice: Additional features have beed added to the vMix Device Core with UniSketch OS v. 2.2.123 and in order for working communication between vMix and your SKAARHOJ controller you need the vMixBridge v1.2 installed (updated November 2018)
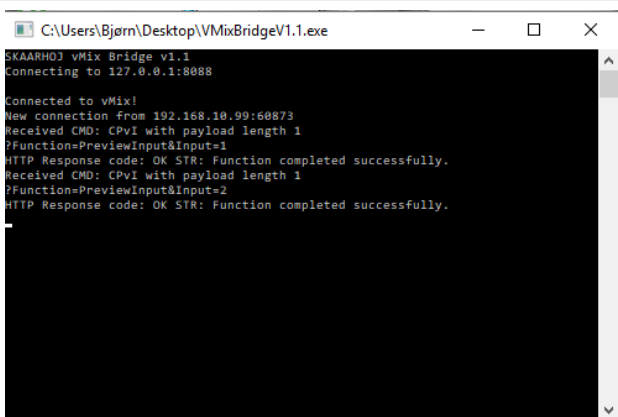
Control of vMix have been tested on vMix version 21.0.0.58 (x64) on Windows 10.
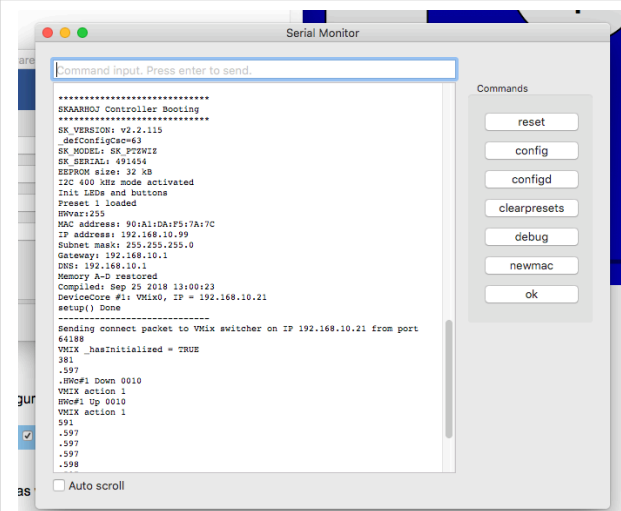
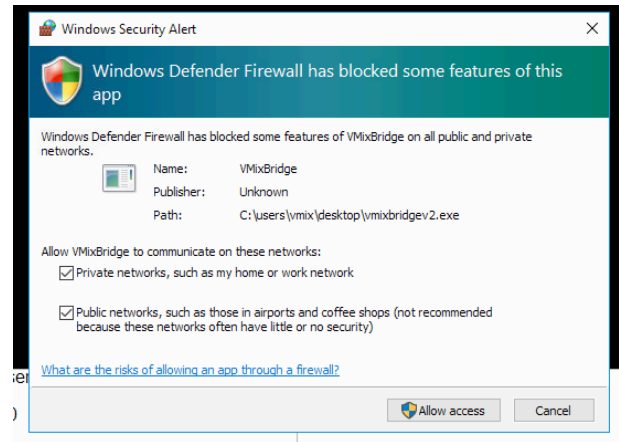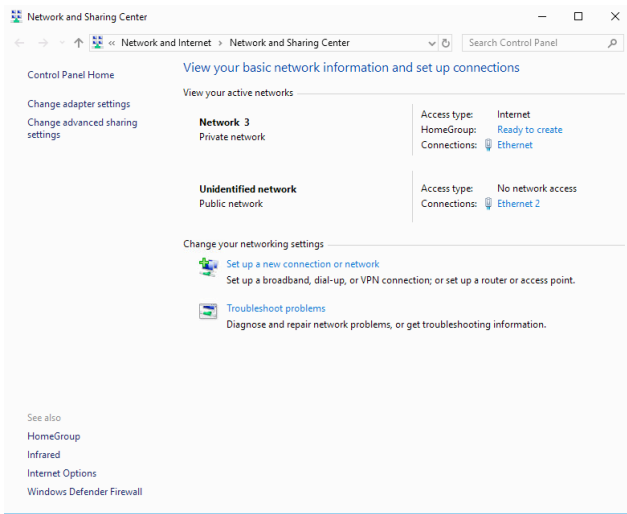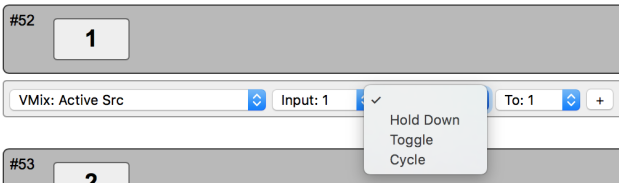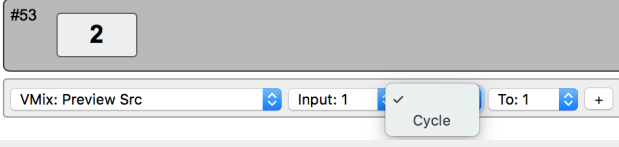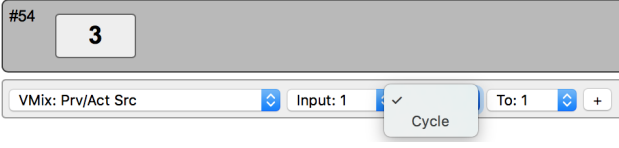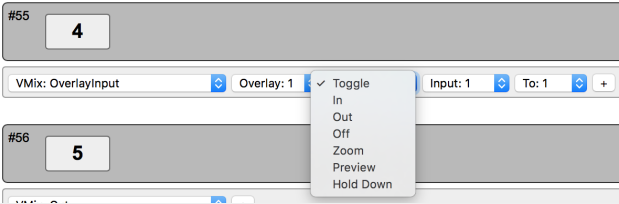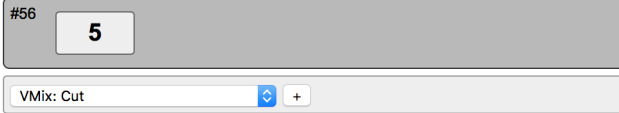|	
Set fixed IP on computer to match vMix Device Core IP address	You can check IP settings in vMix - Settings - Web Controller
Open vMix and vMixBridge. When SKAARHOJ controller connects the vMixBridge will report "New connection from …"	Check connection have been established in serial monitor. Connection is confirmed by "VMIX _hasInitialized = True"

A note on Windows Defender Firewall

In order for the vMixBridge application to work properly you need to make sure the application is granted access to either your Private Network or your Public Network dependent on which network the SKAARHOJ controller is connected to.

This is an excerpt of the list of vMix related actions.

VMix: Active Src
VMix: Preview Src
VMix: Prv/Act Src
VMix: OverlayInput
VMix: Cut
VMix: Fade
VMix: FadeToBlack
VMix: Transition Pos
VMix: Transition Rate
VMix: Change Value
VMix: CountDown
VMix: Stream
VMix: Record
VMix: Replay Duration
VMix: Replay Speed
VMix: Replay
VMix: Transition To
VMix: Next Event
VMix: Previous Event
VMix: Replay Set
VMix: Replay Jog
VMix: Replay Events
VMix: Replay Toggle Camera
VMix: Replay Move Event
VMix: Replay Copy Event
VMix: Replay Toggle Live
VMix: Replay Toggle Direction
VMix: Trigger Shortcut
VMix: Audio Volume
VMix: Audio Levels
VMix: Master Volume
VMix: Master Levels
VMix: Audio Properties

This is a table of actions for vMix switcher software

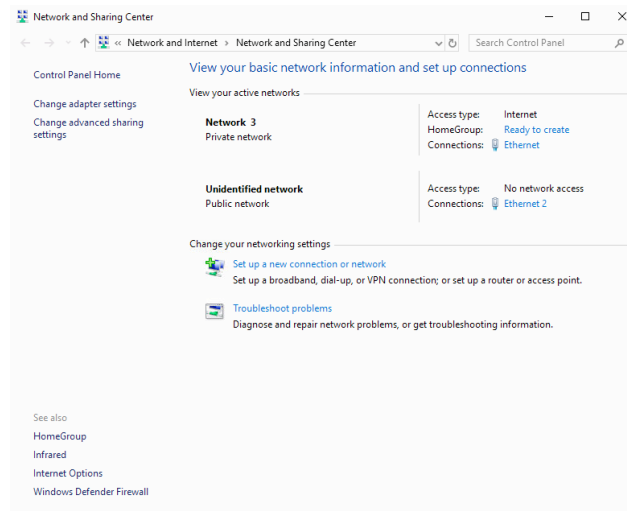|	
Active Src #52 **1** VMix: Active Src — Input: 1 ✓ — To: 1 + Hold Down / Toggle / Cycle #53	Sets the active source in the Vmix software. *Binary triggers:* Sets the source as active *Pulse inputs:* Cycles through the active source from the set source, up to the source index set in the "To" menu. *Binary outputs:* On when the set source is active *Button colors:* Red if source is on active, otherwise dimmed.
Preview Src #53 **2** VMix: Preview Src — Input: 1 ✓ — To: 1 + Cycle	Sets the preview source in the Vmix software. *Binary triggers:* Sets the source as preview *Pulse inputs:* Cycles through the preview source from the set source, up to the source index set in the "To" menu. *Binary outputs:* On when the set source is on preview *Button colors:* Green if source is on preview, otherwise dimmed.
Prv/Act Src #54 **3** VMix: Prv/Act Src — Input: 1 ✓ — To: 1 + Cycle	Sets the given source as preview/active *Binary triggers:* Single press sets the source to preview if it is not already active. Long press puts the source on active. *Pulse inputs:* Cycles through the preview source from the set source, up to the source index set in the "To" menu. *Binary outputs:* Blinking when the source is on preview, on when it is on active, and off otherwise. *Button colors:* Red when active, green when on preview, and dimmed otherwise.
Overlay Input #55 **4** VMix: OverlayInput — Overlay: 1 ✓ — Input: 1 — To: 1 + Toggle / In / Out / Off / Zoom / Preview / Hold Down #56 **5**	*Binary triggers:* Activates a given overlay for the set input. *Pulse inputs:* Toggles the overlay on the set source. If set to "Preview", the overlay is cycled over the sources between Input-To *Binary outputs:* On when the given overlay is active on the set source. *Button colors:* Highlighted when the overlay is active, otherwise dimmed.
Cut #56 **5** VMix: Cut +	*Binary triggers:* Performs a CUT action *Pulse inputs:* Same as binary trigger *Binary outputs:* - *Button colors:* -
Fade #57 **6** VMix: Fade — Style: 1 +	*Binary triggers:* Performs the user specified transition in Vmix with the set style. *Pulse inputs:* Same as binary trigger *Binary outputs:* - *Button colors:* -

Fade to Black (FTB)

#58
7

VMix: FadeToBlack | +

Binary triggers: Toggles fade-to-black

Pulse inputs: Same as binary trigger

Binary outputs: On when fade-to-black is active

Button colors: Follows binary output: Highlighted, when on.

Transition Rate

#59
8

VMix: Transition Rate | Style: 1 | 1/10th second: 1 | +

Not fully implemented

Binary triggers: Sets the given transition rate for the set user transition

Pulse inputs:

Binary outputs:

Button colors: Follows binary output: Highlighted, when on.

Stream

#60
9

VMix: Stream | Toggle | +

Binary triggers: Toggles streaming

Pulse inputs: Same as binary triggers

Binary outputs: On when streaming is active

Button colors: Follows binary output: Highlighted, when on.

Record

#61
10

VMix: Record | Toggle | +

Binary triggers: Toggles recording

Pulse inputs: Same as binary triggers

Binary outputs: On when recording is active

Button colors: Follows binary output: Highlighted, when on.

Transition Position

#127
Slider

VMix: Transition Pos | +

Analog input: Sets the transition position

Binary triggers: Resets the transition position to 0

Change Value

#7
1

VMix: Change Value | Input: 1 | Index: 0 | Inc | 0 | +

Have been implemented - description comming soon

Count Down

#7
1

VMix: CountDown | Input: 1 | Index: 0 | ✓ Toggle / Start / Pause / Stop+Reset
#8

Have been implemented - description comming soon

Replay Setup

#7
1

VMix: Replay Setup | Seconds: 5 | x1/4 | +

Have been implemented - description comming soon

Replay

#7

1

VMix: Replay   +

Have been implemented - description comming soon

Transition To

#7

1

VMix: Transition To | Input: 5 | ✓ Cut | 1/10th second: 1 | +
Fade
Zoom
Wipe
Slide
Fly
CrossZoom
FlyRotate
Cube
CubeZoom
VerticalWipe
VerticalSlide
Merge

#8

2

#9

3

Have been implemented - description comming soon

Replay Set

#25

m1

Normal   INS CP -
VMix: Replay Set | ✓ In | +
Out
Cancel

Binary triggers: Set Mark In/Out or cancel for replay

Trigger Shortcut

#25

m1

Normal   INS CP -
VMix: Trigger Shortcut | +
B
C
D
✓ E
F
G
H
I

Binary triggers: Trigger a shortcut defined in vMix software

Windows Defender Firewall

In order for the to work properly you application is granted Private Network or your dependent on which controller is connected

vMixBridge application need to make sure the access to either your Public Network network the SKAARHOJ to.