



LIGHTWARE

UMX-TPS-TX140

Crosspoint

EDID

Control

Settings

RS-232

GPIO

Ethernet

Infra

Events

Export

Import

Load factory defaults

E1 - E10

E11 - E20

Event1

enabled

Edit

Clear

E1

CONDITION

Show me button pressed

detected

0 times

DELAY

No delay

ACTION

Switch next video input to output

performed

0 times

Event2

enabled

Edit

Clear

E2

CONDITION

Video signal is detected on I1

detected

0 times

DELAY

No delay

ACTION

Switch video input I1 to output O1

performed

0 times

Event3

enabled

Edit

Clear

E3

CONDITION

GPIO state changes to 'High' on P1

detected

1 times

DELAY

No delay

ACTION

Set GPIO output state to 'High' on P2

performed

0 times

Event4

enabled

Edit

Clear

E4

CONDITION

Infra code firstCode recognized on S1

detected

0 times

DELAY

No delay

ACTION

Send RS-232 message 'myCommand' on P1

performed

0 times

Event5

enabled

Edit

Clear

E5

CONDITION

Empty condition

detected

0 times

DELAY

No delay

ACTION

Empty action

performed

0 times

Event6

enabled

Edit

Clear

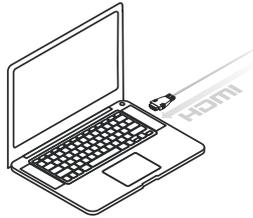


EVENT  
MANAGER

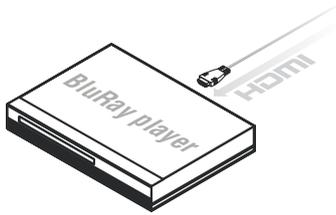
visual engineering  
LIGHTWARE

# CONDITIONS

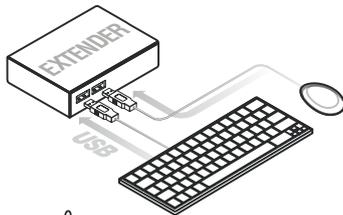
Video input signal detection/change



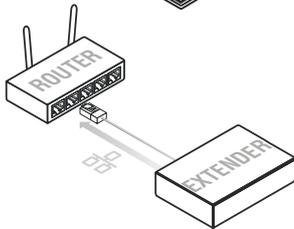
Audio input signal detection/change (digital only)



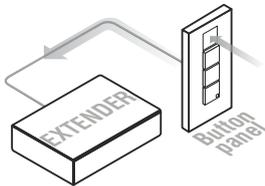
USB KVM device connection



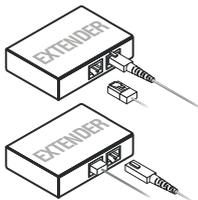
Ethernet link status



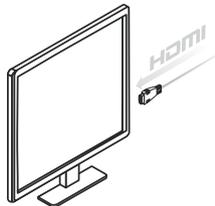
GPIO state changes



Optical/TPS connection link status



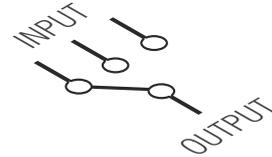
Display connection status



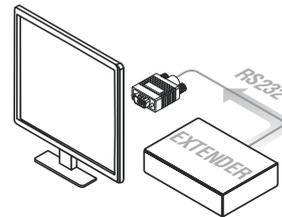
IR command detection



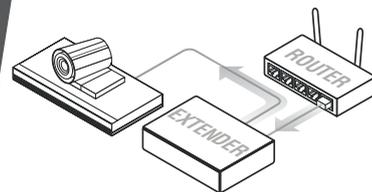
# ACTIONS



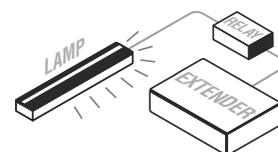
Switch video/audio /IR/RS-232 crosspoint



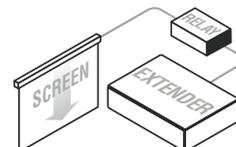
Send RS-232 message



Send TCP/UDP messages to predefined destinations



Set/reset/toggle GPIO pin



**Event Manager can perform a selectable action when a predefined condition is detected**



The **Event Manager** is a **smart, built-in feature** in the Lightware HDBaseT™ compatible TPS extender family, the MODEX line and in some select matrix switchers like the MMX6x2-HT series units. The feature is available through the freely downloadable **Lightware Device Controller software**.

The Event Manager was developed to handle tasks from the most simple to expert ones, like **controlling** the rolling **shutter**, the air conditioning **system** or the **lights** based on any condition changes on the media ports, such as a new source being connected or removed.

Event Manager application is continuously updated with **additional features** via firmware upgrades: a **delay** can be added between the condition and the action and **more actions** can be triggered **by a single condition change**. With the help of the 'condition count' and 'action test' features, the predefined **settings can be tested** before going live. The system can recognize **infrared** commands which can also be set as conditions, and commands can also be sent **via Ethernet**.

Event Manager **saves time**, cost and even **installation space**, which makes Lightware equipment the **optimal choice** in a number of different configurations. Currently the following Lightware products include Event Manager:

- **UMX-TPS-TX120/130/140**
- **MMX6x2-HT200/210/220**
- **MMX4x2-HDMI/HT200**
- **UMX-HDMI-140**
- **HDMI-TPS-TX210/TX220**
- **HDMI-TPS-RX110AY**
- **SW4-TPS-TX240**
- **SW4-OPT-TX240**
- **HDMI-3D-OPT-TX210A/TX210RAK**
- **DVI-HDCP-TPS-TX210/TX220**
- **DP-TPS-TX210/TX220**
- **MODEX**
- **WP-UMX-TPS-TX120-US/130-US**

**UMX-TPS-TX140**



**MMX6x2-HT220**



**MMX4x2-HT200**



**UMX-HDMI-140**



**HDMI-TPS-TX220**



**HDMI-TPS-RX110AY**



**SW4-TPS-TX240**



**SW4-OPT-TX240**



**DVI-HDCP-TPS-TX220**



**DP-TPS-TX220**



**HDMI-3D-OPT-TX210RAK**



**MODEX-F15-OPTS**



**WP-UMX-TPS-TX130US**





## EVENT MANAGER WIZARD

Assigning an action to a condition is quick and easy with the Wizard function of Event Manager. The most typical examples of the currently selectable conditions and actions within the Event Manager Wizard are the following:

***All the control you need***  
is already built-in



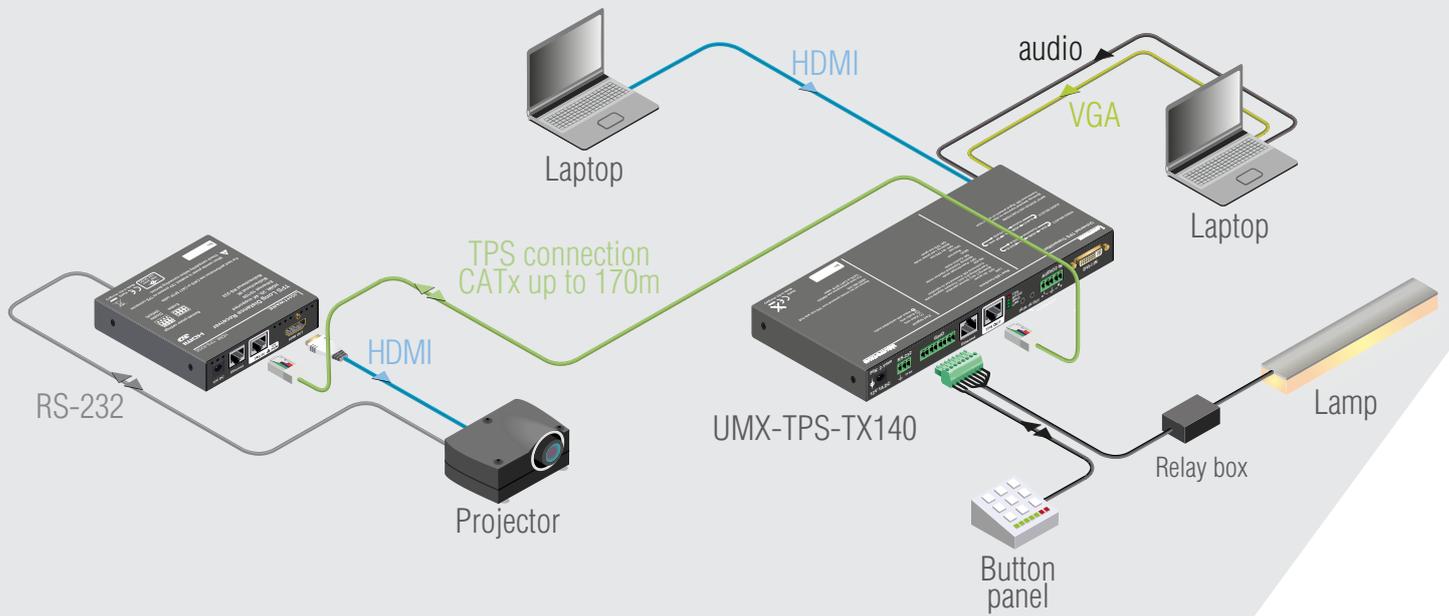
## Conditions

## Actions

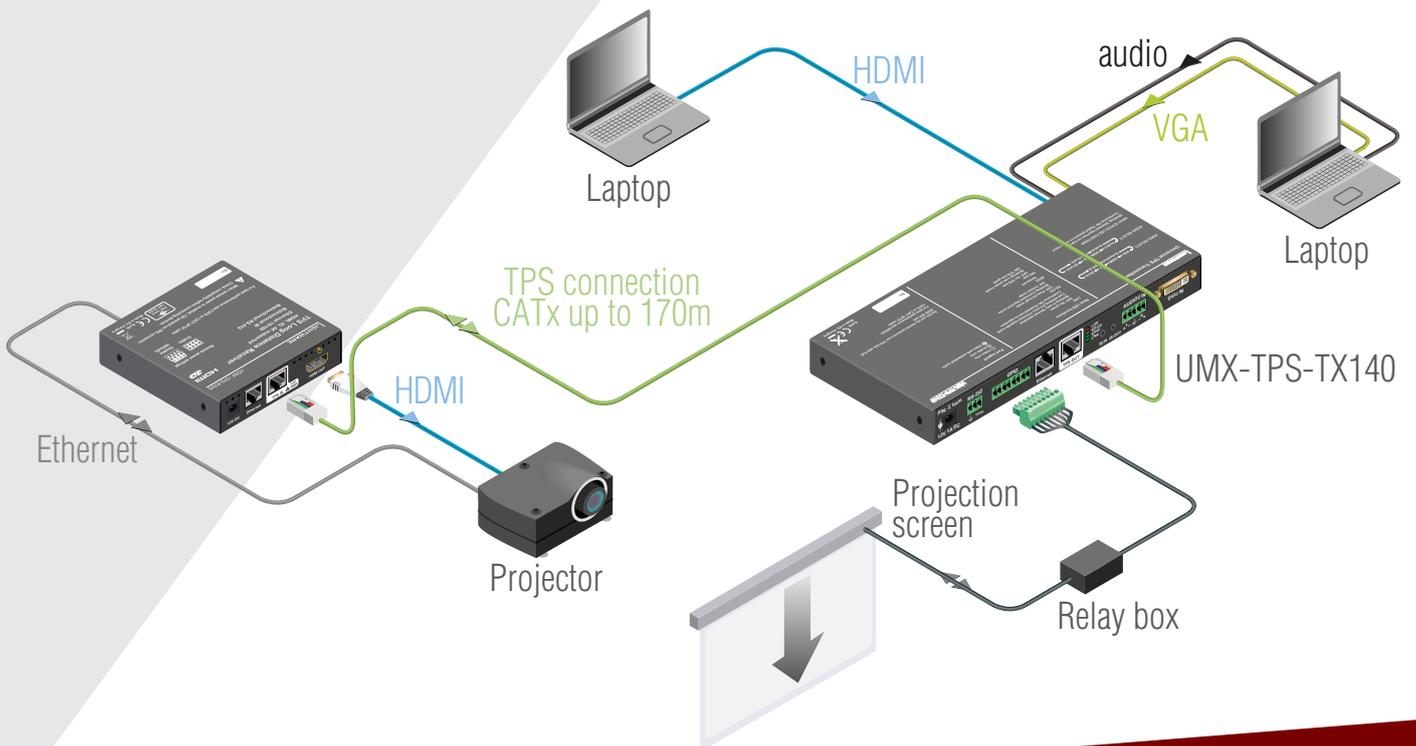
<b>Video</b>	Signal is detected on a port
<b>Video</b>	Signal is not detected on a port
<b>Audio</b>	Signal is detected on a port
<b>Audio</b>	Signal is not detected on a port
<b>Audio</b>	Signal type changes to PCM
<b>Audio</b>	Signal type changes to Compressed
<b>Audio</b>	Signal type changes to HBR
<b>Audio</b>	Signal type changes to Undefined (no signal)
<b>IR</b>	Infra code recognized
<b>General</b>	OPT/TPS link state changes to Dis-/Connected

<b>Video</b>	Switch input to output
<b>Video</b>	Enable autoselect output
<b>Video</b>	Disable autoselect on output
<b>Ethernet</b>	Send TCP command
<b>Ethernet</b>	Send UDP command
<b>R232</b>	Send RS232 message
<b>EDID</b>	Switch EDID
<b>Audio</b>	Set audio volume
<b>Audio</b>	Mute output
<b>Audio</b>	Unmute output
<b>Audio</b>	Increase/decrease volume

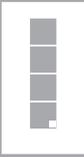
# EXAMPLE A



# EXAMPLE B

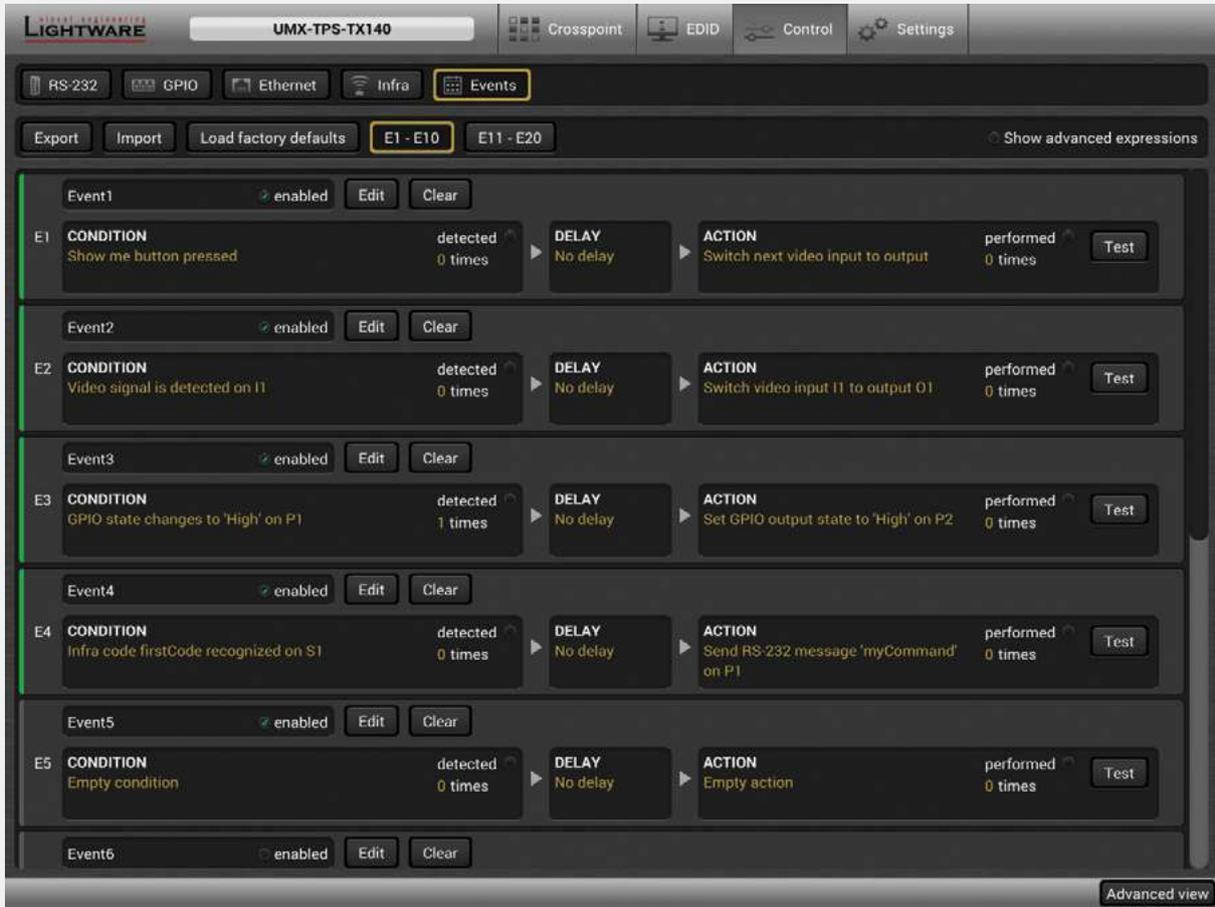


With a button panel connected through the GPIO port, the UMX-TPS-TX140 can be controlled from a remote location; input switching is available even if the transmitter is mounted underdesk. In the example above there are three actions followed by a condition. When an input selector button is pressed on the remote button panel, the selected input port is switched to the output, the projector turns on.

Conditions	Actions	
<b>Press button panel</b> 	  	<b>Input select on the TPS transmitter</b>
		<b>Switch on the projector using RS-232</b>
		<b>Switch off the lamp using the transmitter's GPIO port</b>

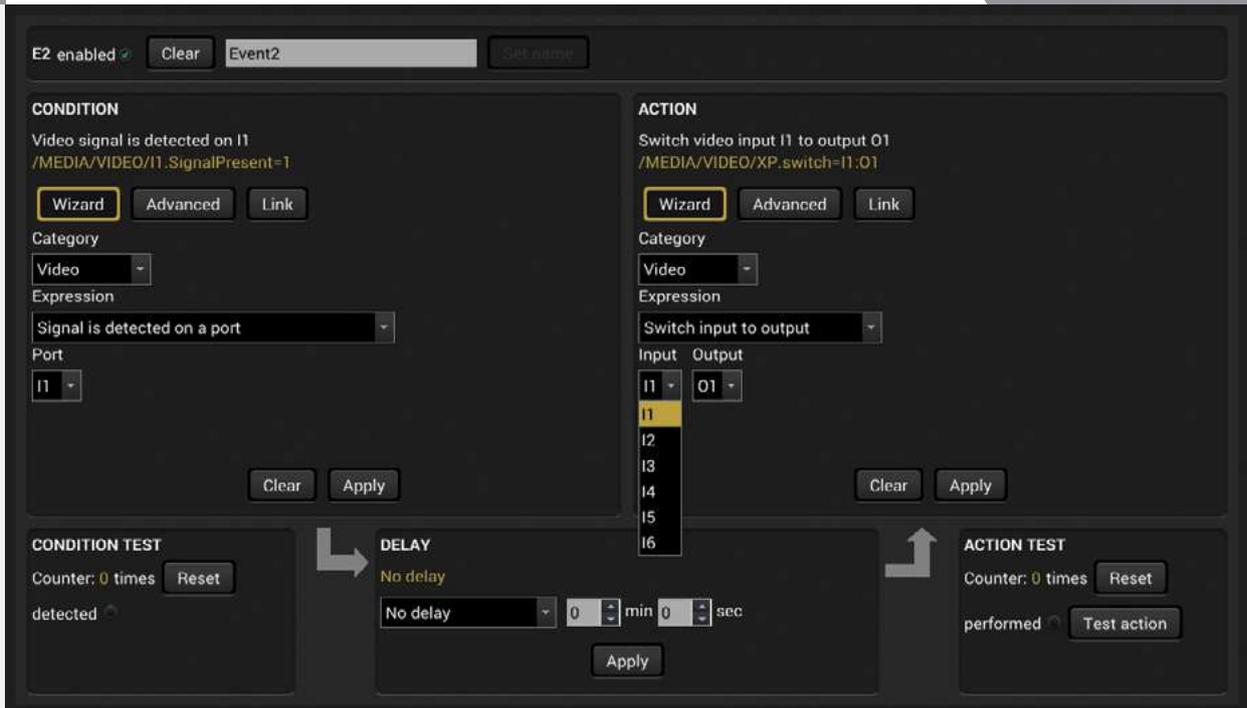
Conditions	Actions	
<b>Plug HDMI</b> 	  	<b>Input select on the TPS transmitter</b>
		<b>Switch on the projector using TCP/IP</b>
		<b>Roll down the projection screen using the transmitter's GPIO port</b>

The projector and the rolling screen (via relay box) are connected to the UMX-TPS-TX140. When the user connects a laptop to the HDMI port of the transmitter, then the connected input is selected automatically, the screen goes down and the projector turns on to display the source.



The Events menu contains separately configurable Events

The Event Wizard makes the setup easy with simple dropdown options



E2 enabled  Event2

**CONDITION**

Video signal is detected on I1  
/MEDIA/VIDEO/I1.SignalPresent=1

Category  
Video

Expression  
Signal is detected on a port  
(Select one)  
Signal is detected on a port  
Signal is not detected on a port  
Signal type changes to DVI  
Signal type changes to HDMI  
Signal type changes to Undefined (no signal)

**ACTION**

Switch video input I1 to output O1  
/MEDIA/VIDEO/XP.switch=I1:O1

Category  
Video

Expression  
Switch input to output

Input Output  
I1 O1

**CONDITION TEST**

Counter: 0 times

detected

**DELAY**

No delay

No delay 0 min 0 sec

**ACTION TEST**

Counter: 0 times

performed

There are many default Expressions available to choose from

Green lines show which Event is configured and active, the rest stays grey

Lightware UMX-TPS-TX140 Crosspoint EDID Control Settings

RS-232 GPIO Ethernet Infra **Events**

Export Import Load factory defaults E1 - E10 E11 - E20  Show advanced expressions

Event	Enabled	Condition	Detected	Delay	Action	Performed	Test
Event1	<input checked="" type="checkbox"/>	Show me button pressed	0 times	Simple delay: 0m 5s	Switch next video input to output	0 times	<input type="button" value="Test"/>
Event2	<input checked="" type="checkbox"/>	Video signal is detected on I1	0 times	Continuously exists for 0m 10s	Switch video input I1 to output O1	0 times	<input type="button" value="Test"/>
Event3	<input type="checkbox"/>	Empty condition	0 times	No delay	Empty action	0 times	<input type="button" value="Test"/>
Event4	<input checked="" type="checkbox"/>	GPIO state changes to 'High' on P1	1 times	Simple delay: 0m 1s	Switch EDID.F1 to E1	0 times	<input type="button" value="Test"/>
Event5	<input checked="" type="checkbox"/>	Video signal is detected on I3	0 times	Still exists after 0m 8s	Toggle GPIO output state on P1	0 times	<input type="button" value="Test"/>
Event6	<input type="checkbox"/>	Empty condition	0 times	No delay	Empty action	0 times	<input type="button" value="Test"/>
Event7	<input type="checkbox"/>	Empty condition	0 times	No delay	Empty action	0 times	<input type="button" value="Test"/>

Advanced view

