



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** detected 0 times **DELAY** No delay **ACTION** Switch next video input to output performed 0 times
Show me button pressed

Event2 enabled Edit Clear

E2 **CONDITION** detected 0 times **DELAY** No delay **ACTION** Switch video input I1 to output O1 performed 0 times
Video signal is detected on I1

Event3 enabled Edit Clear

E3 **CONDITION** detected 1 times **DELAY** No delay **ACTION** Set GPIO output state to 'High' on P2 performed 0 times
GPIO state changes to 'High' on P1

Event4 enabled Edit Clear

E4 **CONDITION** detected 0 times **DELAY** No delay **ACTION** Send RS-232 message 'myCommand' on P1 performed 0 times
Infra code firstCode recognized on S1

Event5 enabled Edit Clear

E5 **CONDITION** detected 0 times **DELAY** No delay **ACTION** Empty action performed 0 times
Empty condition

Event6 enabled Edit Clear

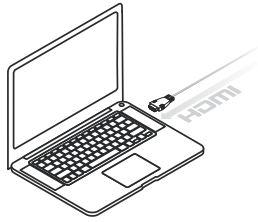


**EVENT
MANAGER**

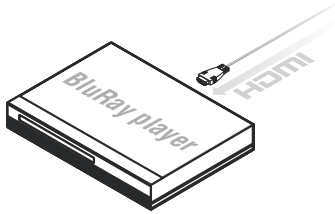
visual engineering
LIGHTWARE

CONDITIONS

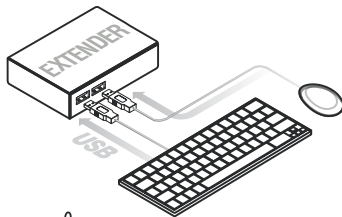
Video input signal detection/change



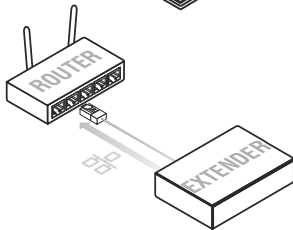
Audio input signal detection/change (digital only)



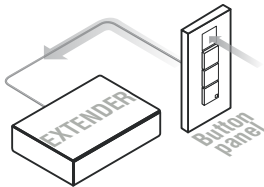
USB KVM device connection



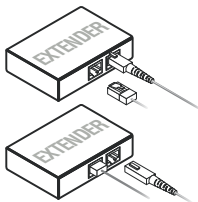
Ethernet link status



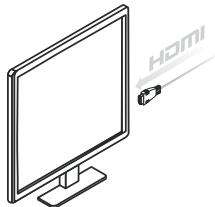
GPIO state changes



Optical/TPS connection link status



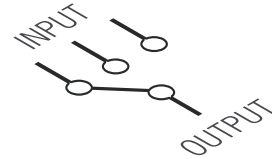
Display connection status



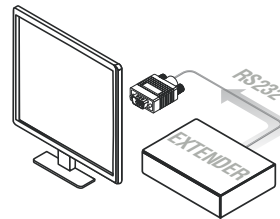
IR command detection



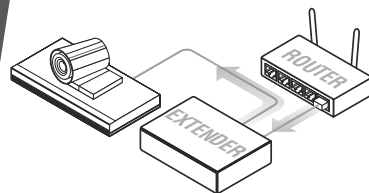
ACTIONS



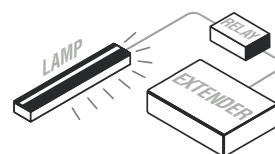
Switch video/audio /IR/RS-232 crosspoint



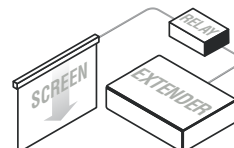
Send RS-232 message



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



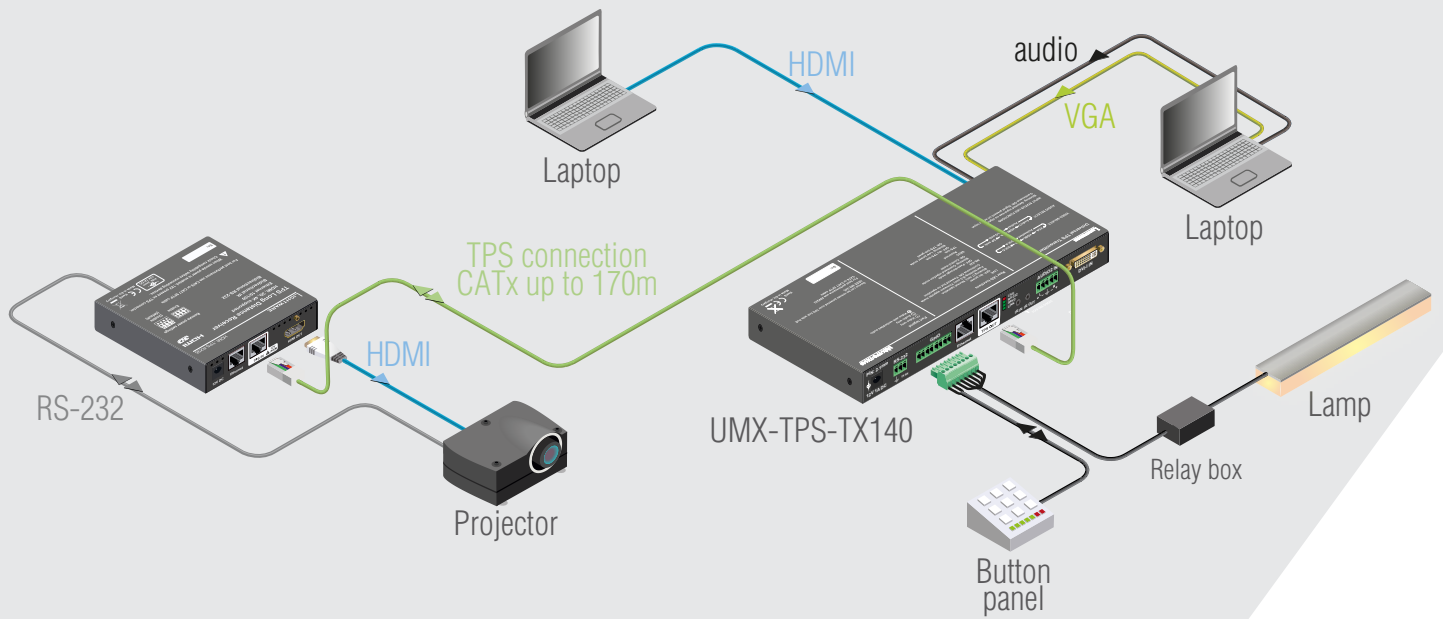
Conditions

Actions

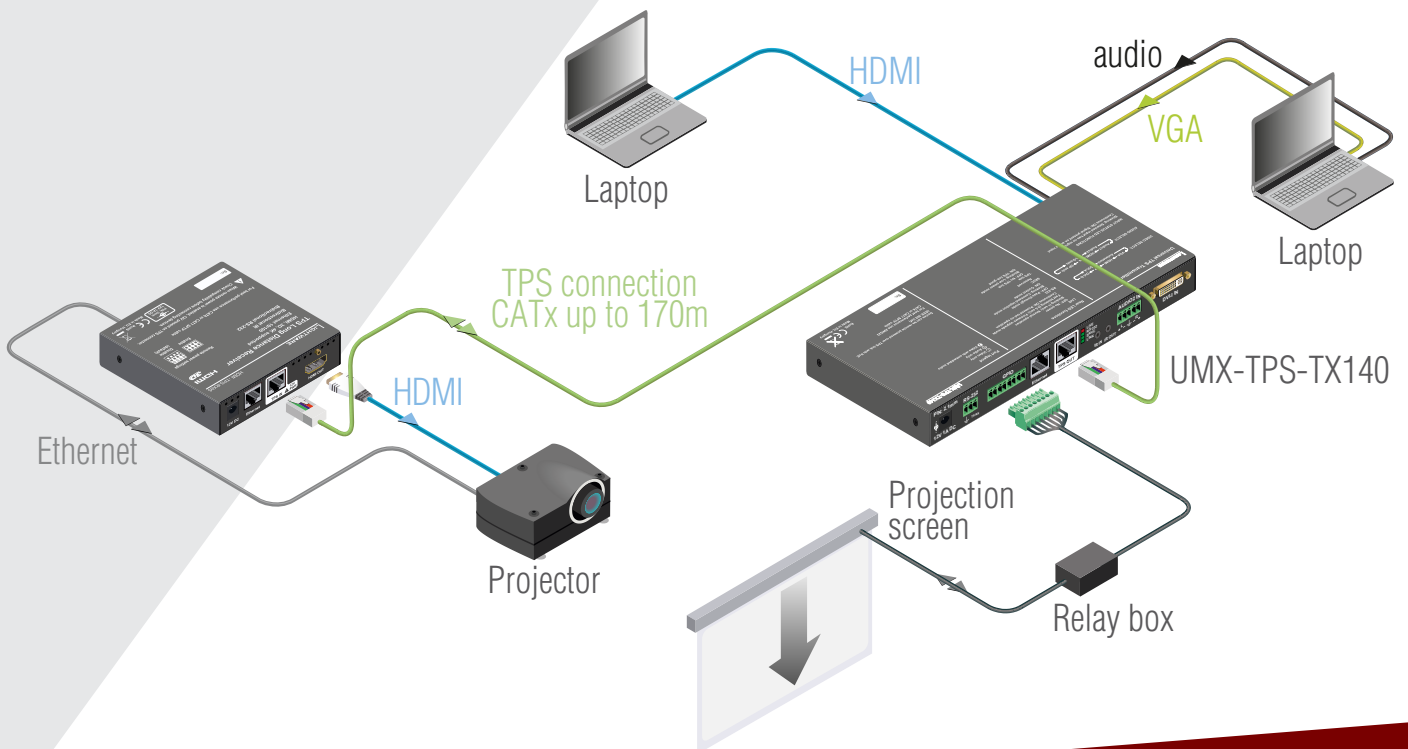
Video	Signal is detected on a port
Video	Signal is not detected on a port
Audio	Signal is detected on a port
Audio	Signal is not detected on a port
Audio	Signal type changes to PCM
Audio	Signal type changes to Compressed
Audio	Signal type changes to HBR
Audio	Signal type changes to Undefined (no signal)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

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

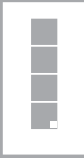



EXAMPLE A







EXAMPLE B

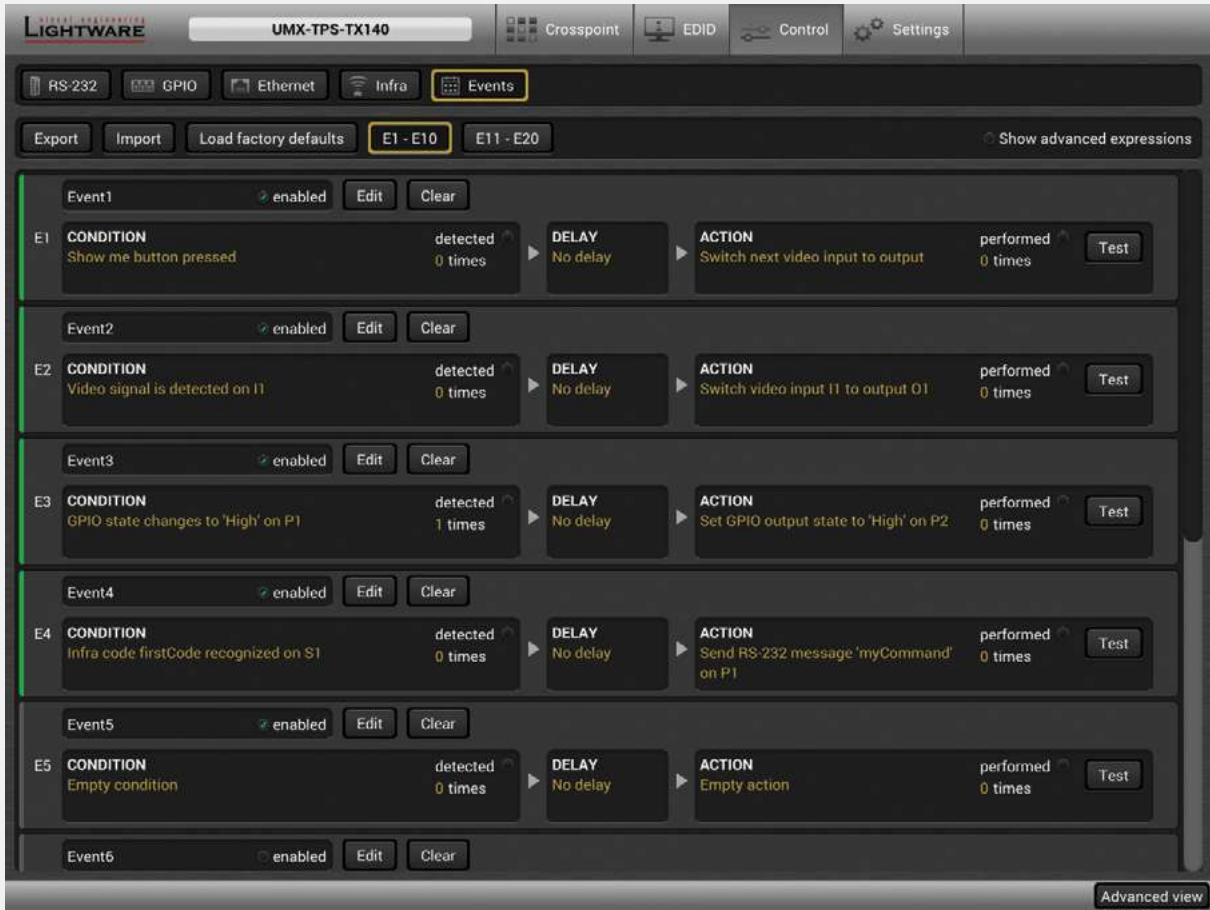


With a button panel connected through the GPIO port, the UMX-TPS-TX140 can be controlled from a remote location; input switching is available even if the transmitter is mounted underdesk. In the example above there are three actions followed by a condition. When an input selector button is pressed on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

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

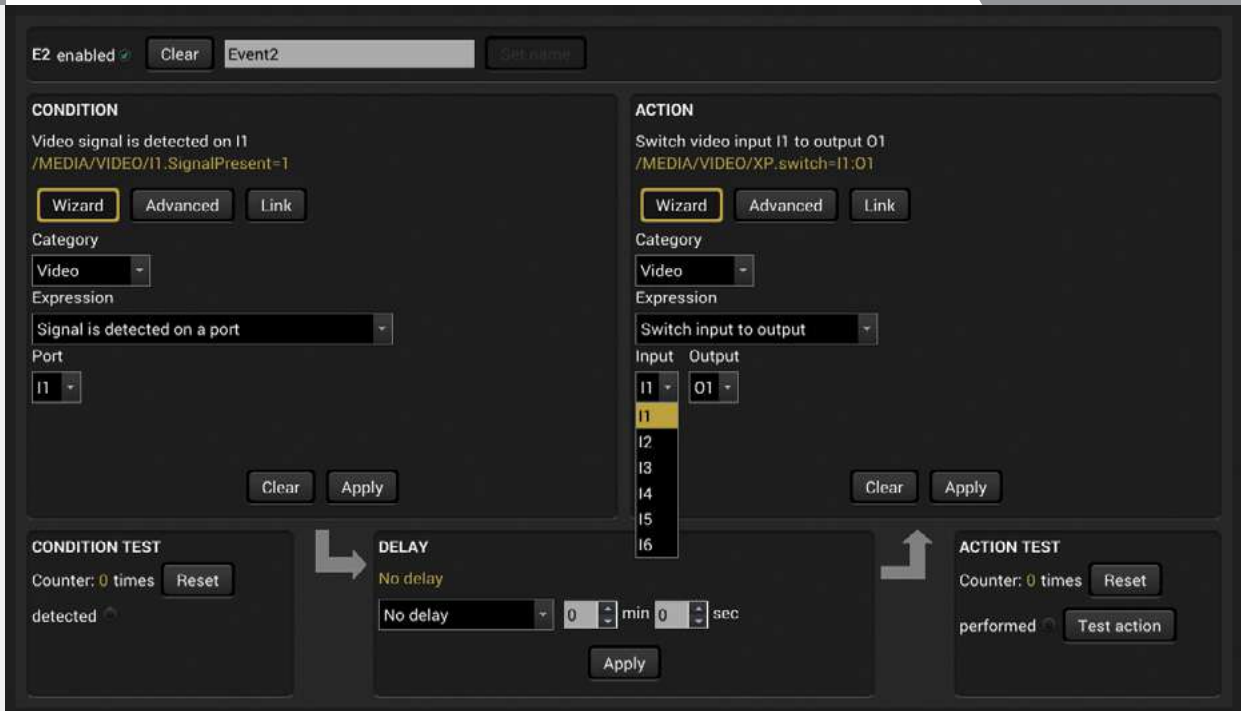
Conditions	Actions	
Plug HDMI 	  	Input select on the TPS transmitter
		Switch on the projector using TCP/IP
		Roll down the projection screen using the transmitter's GPIO port

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

UMX-TPS-TX140

Events

E1 - E10 E11 - E20

Event	Enabled	Condition	Detected	Delay	Action	Performed
Event1	<input checked="" type="checkbox"/>	Show me button pressed	0 times	Simple delay: 0m 5s	Switch next video input to output	0 times
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
Event3	<input type="checkbox"/>	Empty condition	0 times	No delay	Empty action	0 times
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
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
Event6	<input type="checkbox"/>	Empty condition	0 times	No delay	Empty action	0 times
Event7	<input type="checkbox"/>					
Event8	<input type="checkbox"/>					

Advanced view

visual engineering
LIGHTWARE
www.lightware.com