Event Manager

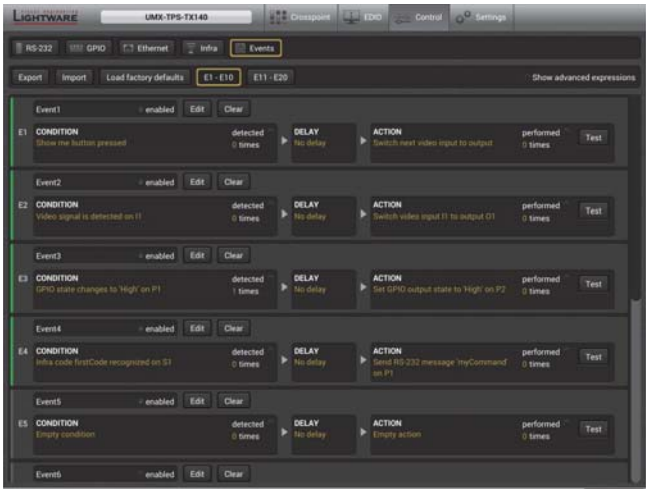
The Event Manager is a smart, built-in feature in the Lightware HDBaseT™ compatible TPS extender family, the MODEX line and in select matrix switchers like the MMX6x2-HT series units. The feature is available through the freely downloadable Lightware Device Controller software and can be configured to detect changes in the device status and perform actions according to the predefined settings.
The Event Manager was developed to handle tasks from the most simple (displaying internal events on GPIO ports or controlling the extender via GPIO inputs instead of front panel pushbuttons) 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. The Event Manager ensures that no additional control solution is required in less complex systems.
The latest upgrade of the Event Manager application added substantial available options to the list of configurable conditions and performable actions.
Now a delay (three types) 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 Wizard

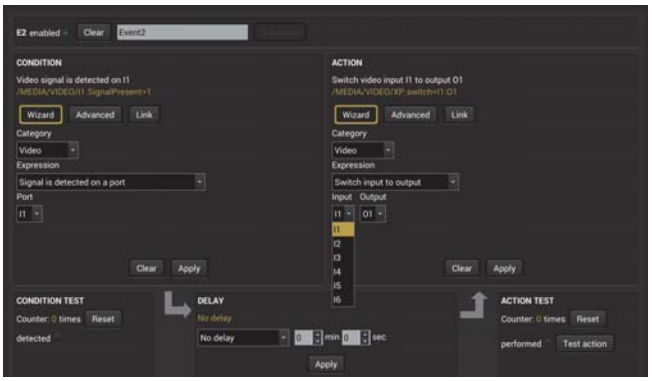
Assigning an action to a condition is quick and easy with the Wizard function of Event Manager.
The most typical examples of the currently selectable conditions and actions within the Event Manager Wizard are the following:

Conditions	
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 Connected
General	OPT / TPS link state changes to Disconnected

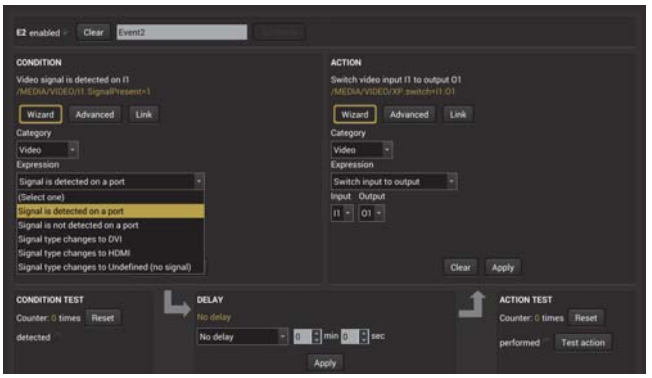
Actions	
Video	Switch input to output
Video	Enable autoselect output
Video	Disable autoselect on output
Ethernet	Send TCP command
Ethernet	Send UDP command
R232	Send RS232 message
EDID	Switch EDID
Audio	Set audio volume
Audio	Mute output
Audio	Unmute output
Audio	Increase/decrease volume



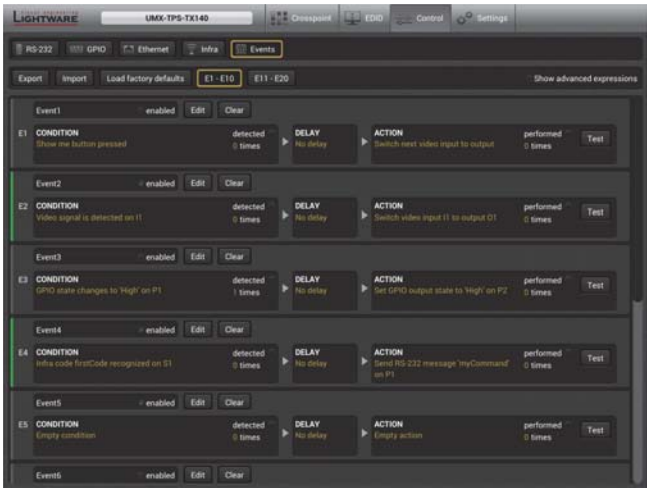
The Events menu contains separately configurable Events



The Event Wizard makes the setup easy with simple dropdown options

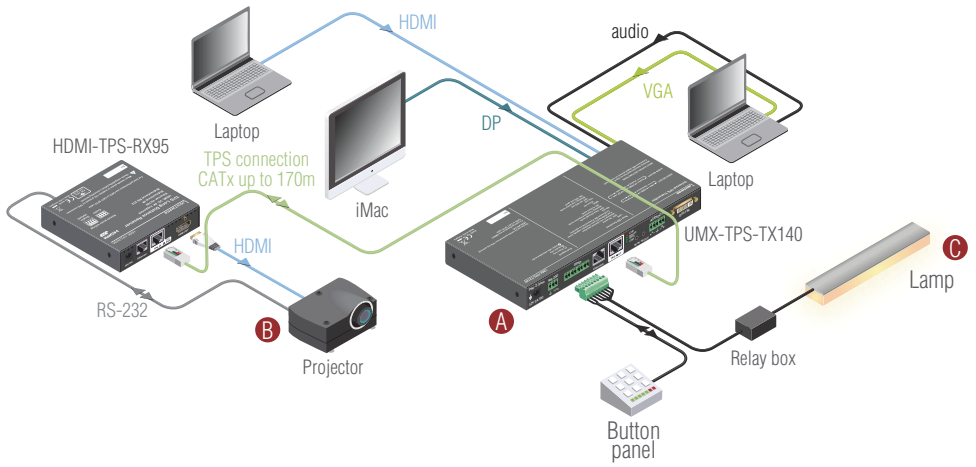


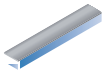
There are many default Expressions available to choose from



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

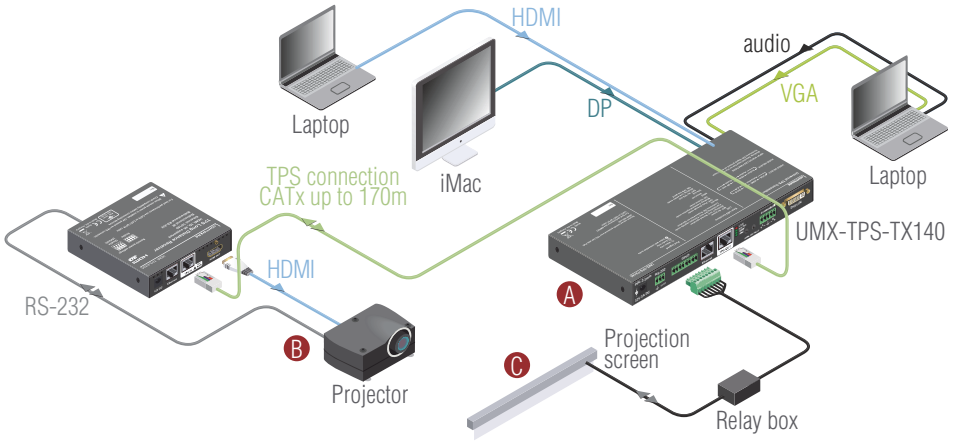
Event Example A

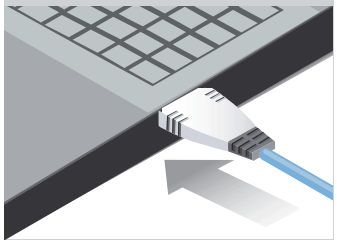


Condition	Action	
 Press button panel		A Input select on the TPS transmitter
		B Switch on the projector using RS232
		C Switch off the lamp using the transmitter's GPIO port

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 input port is switched to the selected input, the lamp switches off and the projector turns on.

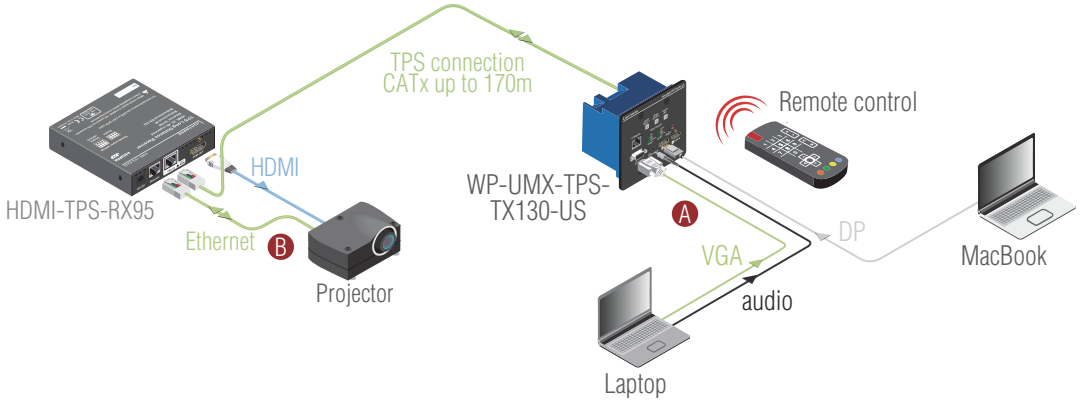
Event Example B



Condition	Action	
		A Input select on the TPS transmitter
		B Switch on the projector using RS232
		C 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.

Event Example C



Condition	Action	
 Press remote control		A Input select on the TPS transmitter
		B Switch on the projector using RS232

A MacBook with DisplayPort and another laptop with VGA and analog audio are connected to the WP-UMX-TPS-TX130-US wallplate which means there are two audio signals and two video signals connected. These inputs can be switched via IR using a remote control. For example the analog audio of the Laptop can be mixed with the DisplayPort video of the MacBook. The Event Manager helps the user assign actions like switching the projector on when the desired input is selected.