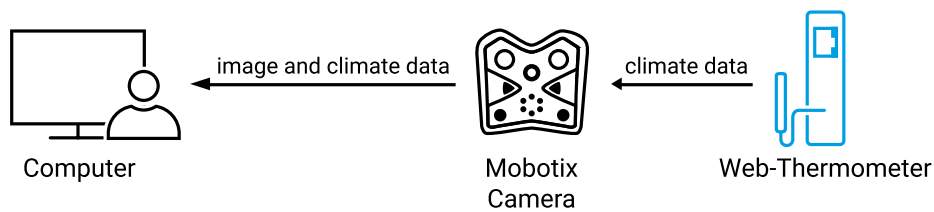


Application for the Web-IO Digital:

## Displaying climate data in camera images with the Web-Thermograph and Mobotix camera

Network cameras have become commonplace for building monitoring and property surveillance. The functional scope of today's IP cameras extends far beyond just displaying monitoring images.

Depending on the manufacturer and options, the cameras can for example receive text and status messages over the network and show them in the camera image. This functionality offers an ideal platform for displaying climate information for Web-Thermo-Hygrobarographs and all other Web Thermometers.



Using the example of a Mobotix camera and a Web-Thermo-Hygrobarograph, we will show you here how simply climate information can be integrated into camera images.



### Step 1 - Configuring the Web-Thermo-Hygrobarograph

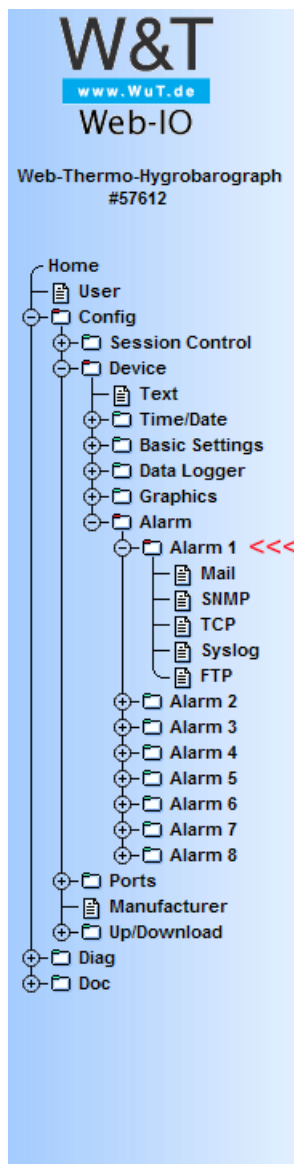
#### Preparations

You already have provided your Web-Thermograph

- with power
- [connected it to your network](#)
- assigned it an IP address - which with [WuTility](#) is no problem

#### Setting up a timer-controlled alarm

After logging in as Administrator, select from the menu tree *Config >> Device >> Alarms >> Alarm 1*



- Trigger :**
- ☐ Sensor 1: Temperature
  - ☐ Sensor 2: Humidity
  - ☐ Sensor 3: Air pressure
  - ☒ Timer <<<
  - ☐ Cold Start
  - ☐ Warm Start
  - ☐ Sensor lost

#### Temperature

**Min :** Grenzwert in °C.

**Delay Time :** Der Alarm wird erst ausgelöst, wenn für die Dauer dieser Zeit die Alarmbedingungen erfüllt sind (Zeit in Minuten).

**Interval :** Sending interval in minutes

**Timer :** Alarms will be activated only within predefined time

Minute	0,10,20,30,40,50 <<<	0-59
Hour	* <<<	0-23 (0 is midnight)
Day_of_Month	* <<<	1-31
Month	* <<<	1-12
Weekday	* <<<	0-6 (0 is sunday)

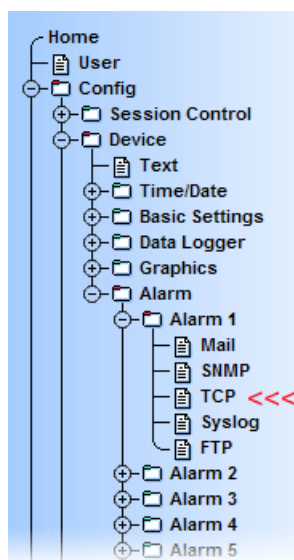
- Enable :**
- ☐ Mail enable
  - ☐ SNMP Trap enable
  - ☒ TCP Client enable <<<
  - ☐ Syslog Messages enable
  - ☐ FTP Client enable

Temporary Storage

Undo

Logout

These settings trigger the required alarm every 10 minutes. Now you just need to specify how the text message should appear to the Mobotix camera. To do this, select from the menu tree *Config >> Device >> Alarms >> Alarm 1 >> TCP*



**IP Addr :** Name oder IP-Adresse des TCP Servers im Folgenden

10.40.22.77 <<<

**Port :** 8500 <<<

**TCP Text :**

Temperature <T1>°C  
Humidity <H1>%  
Air pressure<PN>hPa <<<

**Alarm Clear Text :** Diese Nachricht wird gesendet, wenn der Alarm

Temporary Storage

Undo

Logout

<<<

For *IP Addr* enter the IP address of the Mobotix camera, and for *Port* enter the port which is enabled with the Mobotix camera for network messages (see below). Under *TCP Text* enter the text message for later display in the camera. The placeholders <T1>, <H1> <PN> are replaced by the Web-Thermo-Hygrobarograph by the actual values. (Important: The last line must be finished with Return - new line)

Finally the settings must be saved in the Web-IO using *Logout >> Save*.

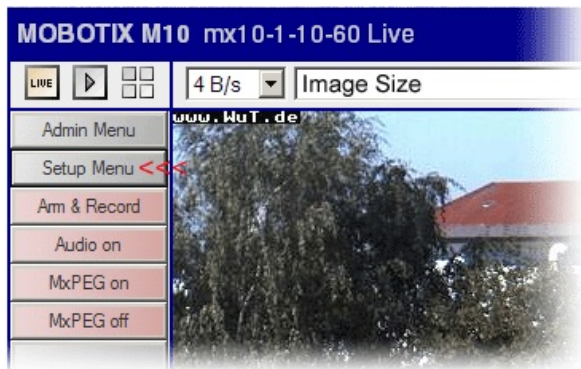
## Step 2 - Configuring the Mobotix camera

### Setting up the server port for network messages (RC)

Note: The Web and Basic models of the Mobotix camera do not support network messages

First log in to the Mobotix camera as Admin.

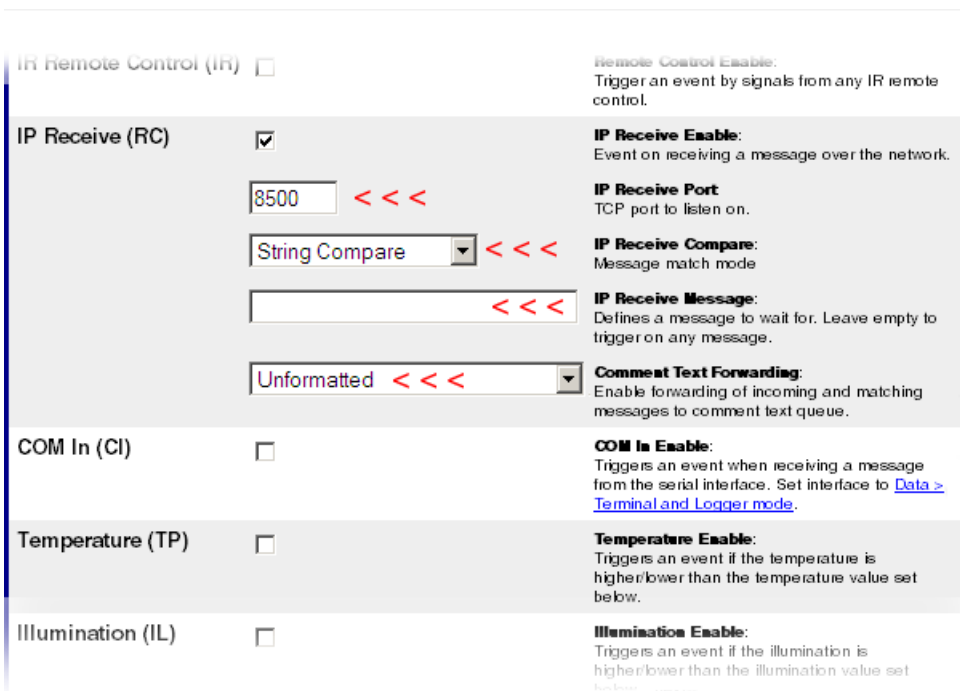
Then click on the button *Setup Menu*



In the following window select *Event Settings*.



Then scroll in the field *Network messages (RC)*.



Network Messages must be enabled. For *Port* enter the port to which the Web-Thermo-Hygrobarograph sends its message.

The other settings can be used as they appear in the upper illustration.

Finally, scroll down and click on the *Set* button. Then go back to the *Setup Menu* overview.

### Setting up the text display

Here you select *Display and text settings*.



Here you can specify in which form the received network messages should be displayed.

Attribute	Value	Explanation
Text Display	On	<b>Text Display:</b> The <i>Date &amp; time</i> option will only display date and time.
	White	<b>Text Color:</b> Select the default text color.
	Black	<b>Background Color:</b> Choose your own background color.
	Transparent	<b>Background Opacity:</b> Opacity of text background.
	Date & time	<b>Date and Time:</b> Select format of date and time
	www.WuT.de	<b>Comment</b> This text will be displayed on every image. This parameter allows using <a href="#">comment variables</a> and standard <a href="#">variables</a> .
	^s3	
	On	<b>Error Messages:</b> Enable error messages in image
Display Options	Off	<b>Show Event/Action Symbols:</b> Show event symbols. Use <i>Symbols !!</i> if many events are activated.
	Off	<b>Level Meter:</b> Display level meter as bar graph or scroll chart. Level meter is displayed in the lower left corner.
Object Tracing (OT)	Disable	<b>Enable Object Tracing:</b> Trace objects moving within the image area.

Buttons: Set, Factory, Restore, Close, Less

In the Comments field you specify what should be displayed. This can be a fixed text such as a Web address - but it is also possible to position a placeholder for received network messages.

S3 stands here for 3 lines of message text.

Tip: A total of 60 lines are available. If as in the example shown you want a fixed text at upper left but the message itself at lower left, a corresponding number of line feeds must be inserted by pressing Return (here one line of text, 56x Return, three

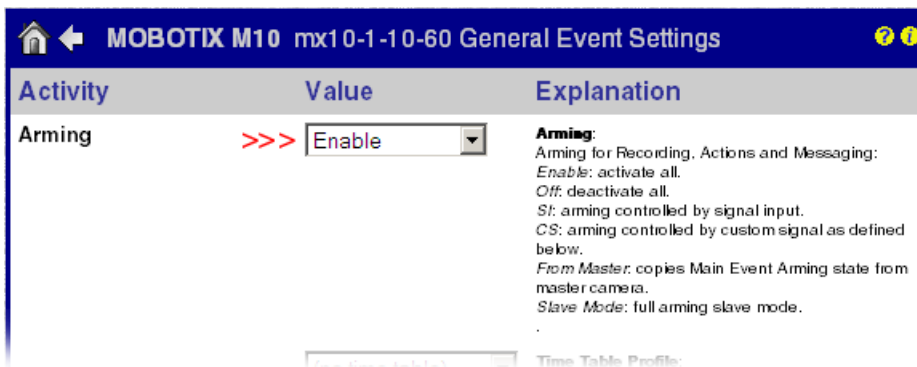


lines of message).

Finally the settings must be applied by clicking on the *Set* button. Then return to the *Setup Menu* overview.



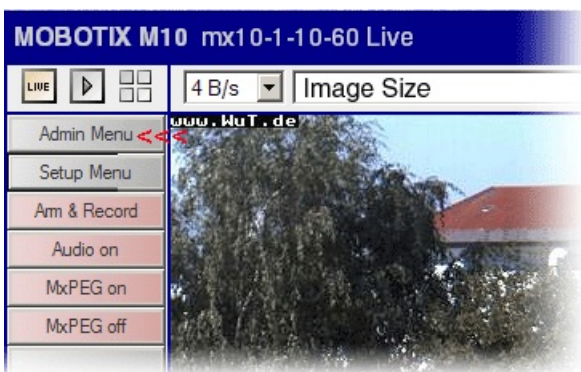
Now select General Event Settings.



Only if the item *Arming the Mobotix-Cam* is activated here will the Mobotix camera accept network messages.

Finally the settings must be applied by clicking on the *Set* button.

Then return to the *Admin menu*..



Scroll to the area *Configuration* and select *Save*.

<b>Serial Interface</b>	<ul style="list-style-type: none"> <li>■ <a href="#">Setup</a> of serial interface, modem and weather station</li> <li>■ <a href="#">Serial Terminal</a></li> <li>■ <a href="#">Signal State</a></li> </ul>
<b>Configuration &gt;&gt;&gt;</b>	<ul style="list-style-type: none"> <li>■ <a href="#">Store</a> current configuration into flash memory</li> <li>■ <a href="#">Reset</a> configuration to factory defaults</li> <li>■ <a href="#">Restore</a> last stored configuration from flash</li> <li>■ <a href="#">Load</a> configuration from local computer</li> <li>■ <a href="#">Save</a> current configuration to local computer</li> <li>■ <a href="#">Show</a> current configuration (<a href="#">raw version</a>)</li> <li>■ <a href="#">Edit</a> configuration file (for experts)</li> <li>■ <a href="#">Manage</a> other cameras</li> </ul>
<b>System Update</b>	<ul style="list-style-type: none"> <li>■ <a href="#">Update System Software</a></li> </ul>
<b>General Tasks</b>	<ul style="list-style-type: none"> <li>■ <a href="#">Reboot</a> the camera</li> </ul>


Follow the instructions for permanently saving all settings

After no more than 10 minutes the temperature, relative humidity and barometric pressure should be displayed in the camera image.

Of course in the same way you can also display digital states (e.g. window open/closed) in a camera image. For this you need a Web-IO Digital instead of the Web-Thermo-Hygrobarograph. [See](#)

#### Do you not have a Web Thermometer but would like to try out this example?

No problem: We will be glad to send you the Web-Thermo-Hygrobarograph at no charge for 30 days. Simply fill out a sample ordering form, and we will ship the Web-Thermograph for testing on an open invoice. If you return the unit within 30 days, we will simply mark the invoice as paid.

[To sample orders](#) 



We are available to you in person:

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 Porschestra. 12  
 42279 Wuppertal  
 Phone: +49 202/2680-110 (Mon.-Fri. 8 a.m. to 5 p.m.)  
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[info@wut.de](mailto:info@wut.de)

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