**Quick Start Guide**

**UBEX-PRO20-HDMI-F100**

**UBEX-PRO20-HDMI-F110**

**UBEX-PRO20-HDMI-F120**

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**Imported Safety Instructions**

Please read the supplied safety instruction document before using the product and keep it available for future reference.

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**Box Contents**

- UBEX endpoint device
- IEC power cable
- UTP patch cable (2 m)
- Safety and warranty info
- Quick Start Guide

* Only for UBEX-PRO20-HDMI-F110 and UBEX-PRO20-HDMI-F120 models.

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**System Settings**

**Factory defaults**

- ƒ Reboots the device (the same as disconnecting from the power supply and reconnecting again).
- ƒ Confirmation the device reboots and the factory default values are reloaded in the device.
- ƒ Easy setting and menu navigation by the jog dial control. Turn and click the knob while getting feedback on the LCD.
- ƒ Status LEDs and parameters in the front panel menu.
- ƒ LCD screen showing the most important settings and parameters in the front panel menu.
- ƒ The LEDs give immediate feedback about the current status of the device.

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**Menu Navigation**

- ƒ Jog dial control knob
- ƒ Menu navigation & change parameter
- ƒ Menu selection & set parameter
- ƒ Select the required mode: TX/RX/TRX as well. The knob can be pressed to enter a menu or edit/set a parameter.

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**Operation Mode Settings**

- ƒ The operation mode (TX/RX/TRX) of the unit can be changed from the LCD menu in a few steps.

1. Navigate to the System settings / Operation mode / Switch mode... submenu and select the required mode: Transmitter, Receiver or Transceiver.
2. After the confirmation the unit resets. After booting up the device operates in the desired mode.

**Set Static IP Address**

- ƒ The IP address of the endpoint can be set from the front panel:

1. Navigate to the System settings / Network / DHCP menu and check the current state of the DHCP. If the setting is Enabled change it to Disabled. After this navigate to Save and press Enter.
2. Navigate to the System settings / Network / Static IP menu and select the Static IP address. Subnet mask, Static gateway options. Set the parameters by the front panel buttons according to your network requirements.
3. Navigate to Save and press Enter.

**Set Dynamic IP Address**

- ƒ The IP address of the DHCP is updated automatically in the following sections:

1. Navigate to the System settings / Network / DHCP menu and check the current state of the DHCP. If the setting is Enabled change it to Disabled. After this navigate to Save and press Enter.
2. Navigate to the Save submenu (the last one of the Network menu) and press Enter.

**Restore Factory Default Settings**

- ƒ Navigates to the System settings / Factory defaults menu and press Enter. After the confirmation the device reboots and the factory default values are released in the device.

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**Further Information**

The document is valid with the following firmware version: 2.2.0

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Doc. ver: 1.4

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Connecting Steps

### Transmitter (TX) Operation Mode

**PC**
- Keyboard / MP3 player
- Speakers
- IR detector
- IR emitter
- 4K TV

**USB-A**
- Audio input
- Audio output
- Optical input
- Optical output

**Power**
- Laptop
- Monitor
- 4K TV

### Receiver (RX) Operation Mode

**PC**
- Keyboard / MP3 player
- Speakers
- IR detector
- IR emitter
- Projector

**USB-A**
- Audio input
- Audio output
- Optical input
- Optical output

**Power**
- Laptop
- Monitor
- Projector

### Transceiver (TRX) Operation Mode

**PC**
- Keyboard / MP3 player
- Speakers
- IR detector
- IR emitter
- 4K TV

**USB-A**
- Audio input
- Audio output
- Optical input
- Optical output

**Power**
- Laptop
- Monitor
- 4K TV

**Matrix Management Unit (MMU)**
- HDMI in
- Ethernet
- Audio in
- Audio out
- USB-A
- HDMI out
- Speakers
- IR detector
- IR emitter

**Optical**
- SFP+ LINK 1
- SFP+ LINK 2

**DC**
- 100-240 VAC 50/60 Hz
- 0.4-0.2 A

Factory Default Settings

<table>
<thead>
<tr>
<th>Application mode (Extender / Matrix)</th>
<th>Auto (the endpoint detects automatically the actual application mode)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network settings</td>
<td></td>
</tr>
<tr>
<td>Static IP address - TX mode</td>
<td>192.168.0.101</td>
</tr>
<tr>
<td>Static IP address - RX mode</td>
<td>192.168.0.102</td>
</tr>
<tr>
<td>Static IP address - TRX mode</td>
<td>192.168.0.101</td>
</tr>
<tr>
<td>Subnet mask</td>
<td>255.255.255.0</td>
</tr>
<tr>
<td>Default gateway</td>
<td>192.168.0.1</td>
</tr>
<tr>
<td>DHCP protocol command port</td>
<td>80</td>
</tr>
</tbody>
</table>

### HDMI PORT SETTINGS - TRANSCEIVER MODE

<table>
<thead>
<tr>
<th>HDMI input port properties</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Scale mode - HDMI in 1</td>
<td>Pass-through</td>
</tr>
<tr>
<td>FRC mode - HDMI in 2</td>
<td>Pass-through</td>
</tr>
<tr>
<td>Color space converter - HDMI in 1</td>
<td>No conversion</td>
</tr>
<tr>
<td>HDCP setting - HDMI in 1 and 2</td>
<td>Enabled</td>
</tr>
</tbody>
</table>

### HDMI PORT SETTINGS - RECEIVER MODE

<table>
<thead>
<tr>
<th>HDMI output port properties</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Scale mode - HDMI out 1</td>
<td>Pass-through</td>
</tr>
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<td>HDCP setting - HDMI out 1 and 2</td>
<td>Enabled</td>
</tr>
<tr>
<td>HDCP mode - HDMI out 1 and 2</td>
<td>Auto</td>
</tr>
</tbody>
</table>

Software Control – Using Lightware Device Controller (LDC)

The device can be controlled from a computer through the Ethernet ports using Lightware Device Controller. Please download the application from www.lightware.com, install on a Windows PC or a maxOS and establish connection to the device.

**Extender Mode**

Connect singlemode or multimode (depends on the installed SFP+ modules) fiber optical cables or DAC cables between a UBEX transmitter and a receiver, or two transceivers. The Extender Mode is detected and applied automatically in the device once the connection is established successfully.

**Matrix Mode**

Connect singlemode or multimode (depends on the installed SFP+ modules) fiber optical cables or DAC cables between the UBEX transmitter / receiver / transceivers devices and the Layer 3 (L3) network switch. Also connect the Matrix Management Unit (MMU) to the switch by fiber optical or CATx cable to configure and control the virtual matrix. The Matrix Mode is applied automatically in the endpoint devices once the MMU claims the endpoint.