

# **Raytec Vario2.5 Hybrid IPPoE Firmware Release Notes**

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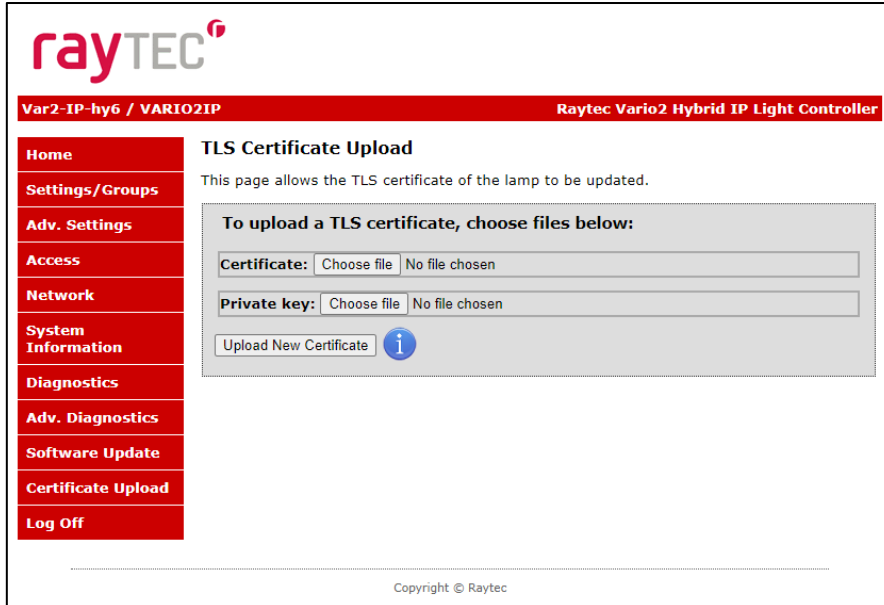
## 1. Release Version 3.7.1 (June 2023)

### 1.1. New Features

#### HTTPS

*It is now possible to upload a certificate and private key to a lamp to enable encrypted communication using HTTPS.*

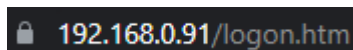
*The web interface now has a page Certificate Upload which looks as follows:*



*The user must upload a certificate file and private key, these files must be in .der format as this makes the files smaller and allows them to be uploaded and stored in a timely manner.*

*It is important that files uploaded use ECDSA 256-bit keys, the reason this has been chosen by Raytec is because we have a memory and power constrained device and by using ECDSA with 256-bit keys (over something like RSA with 2048 bit keys) is to give our users security whilst keeping the product working without any lags or issues, our processor doesn't have the capability to do RSA encryption/decryption in a timely manner.*

*After uploading the files, the lamp will restart and on typing `https://<lamp_ip_address>` into your browser you should see the lock indicating that the connection is secure:*



*You can now navigate the web interface securely and by preceding your HTTP API commands with `https://` you'll now be able to send these encrypted.*

*To support this updated firmware, Raytec have released an update to their DiscoMan Software to simplify certificate creation and upload. In addition to this, there is also a **Raytec HTTPS Setup Guide** which can be found in this download package.*

## **1.2. Removed Features**

None

## **1.3. Fixed Issues**

None

## **1.4. Known Issues**

None

## 2. Release Version 3.6.0 (March 2021)

### 2.1. New Features

None

### 2.2. Removed Features

None

### 2.3. Fixed Issues

Photocell Hysteresis

*Photocell hysteresis has now been applied to all lamp modes and the off level has been adjusted to be 40 lux higher than the configured on level rather than the previous 60 lux irrespective of on level.*

*This fix has been made because the photocell on and off value was the same in VMS mode and this led to a lot of night and day events leading to incorrect behaviour in our integrations.*

### 2.4. Known Issues

None

### **3. Release Version 3.5.4 (August 2020)**

#### **3.1. New Features**

See separate Feature Update document **Vario2 IPPOE 2.5 – Feature Update g 05-10-20** (included in this release package)

#### **3.2. Removed Features**

None

#### **3.3. Fixed Issues**

None

#### **3.4. Known Issues**

None