EKSMA OPTICS

OEM DKDP Pockels Cell Kit for Q-switching

System wiring

QKD-02

2021
Lithuania

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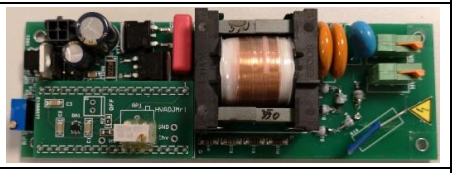
Table 1. Items included in OEM DKDP Pockels Cell Kit

OEM high voltage (HV) driver Model: DQF-0.2-5D	
OEM high voltage (HV) power supply Model: PS-5-4.0	
Pockels cell Model: D-compact/9-1064	
[HV] cables OEM high voltage driver ↔ Pockels cell	
[HV] cables OEM high voltage driver ↔ (HV) power supply	
Synchronization cable OEM high voltage driver ↔ Signal generator	
2 pcs. of +24V cables 1. Users +24V power supply ↔ (HV) power supply 2. Users +24V power supply ↔ OEM high voltage driver	
USB flash drive Including manuals and technical descriptions	
Mounting stage for Pockels cell Model: PM1	

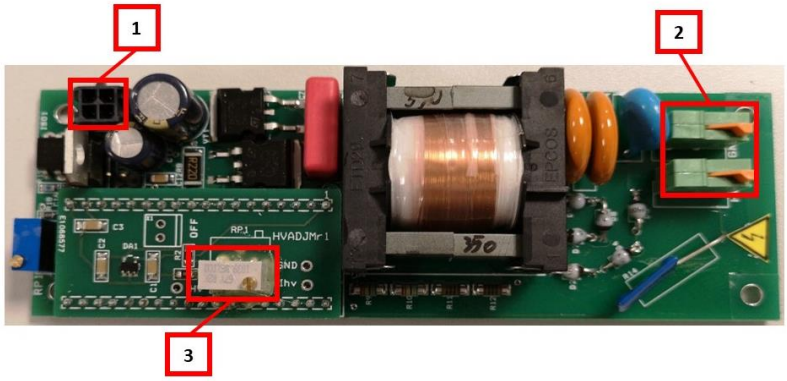


Figure 1. Top view of the (HV) power supply

Table 2. Controls and connections of the (HV) power supply

#	***Port***
1	Molex 4 (Microsoft series) interface for +24V DC supply
2	Contacts for HV pulse output
3	Internal trimmer for output voltage tuning

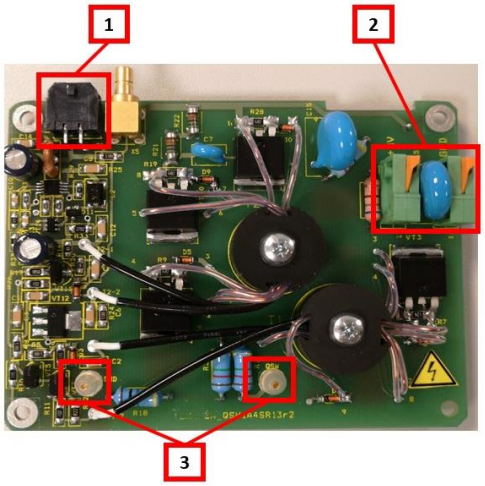


Figure 2. Top view of the (HV) driver

Table 3. Controls and connections of the (HV) driver

#	***Port***
1	Molex 4 (Microsoft series) interface for +24V DC supply
2	Contacts for HV pulse input
3	Output voltage to cell (<5 kV)

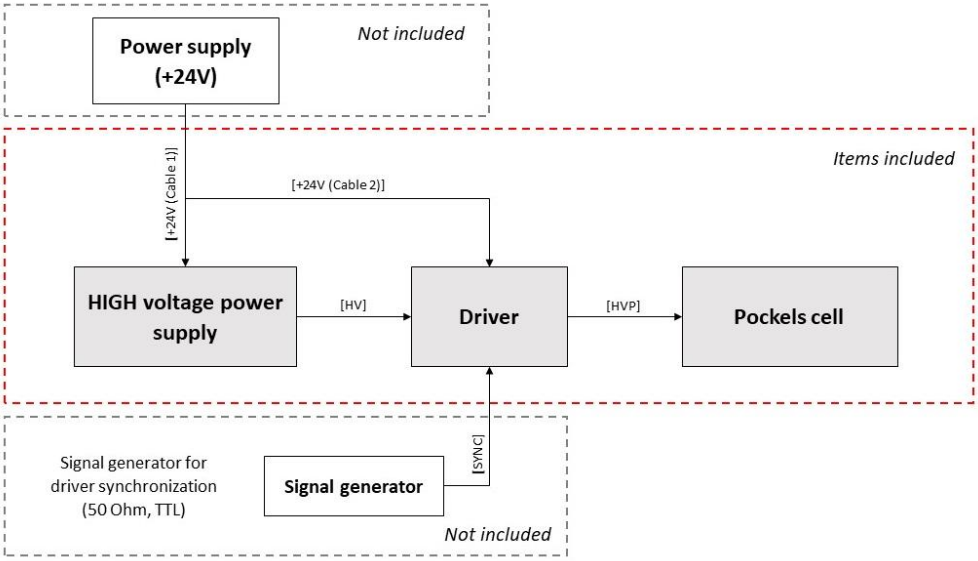


Figure 3. Structure diagram

Table 4. Cables

Cable	***Description***
[24V (Cable 1/2)]	+24V power line
[SYNC]	synchronization signal cable
[HV]	high voltage cable
[HVP]	high voltage pulse line

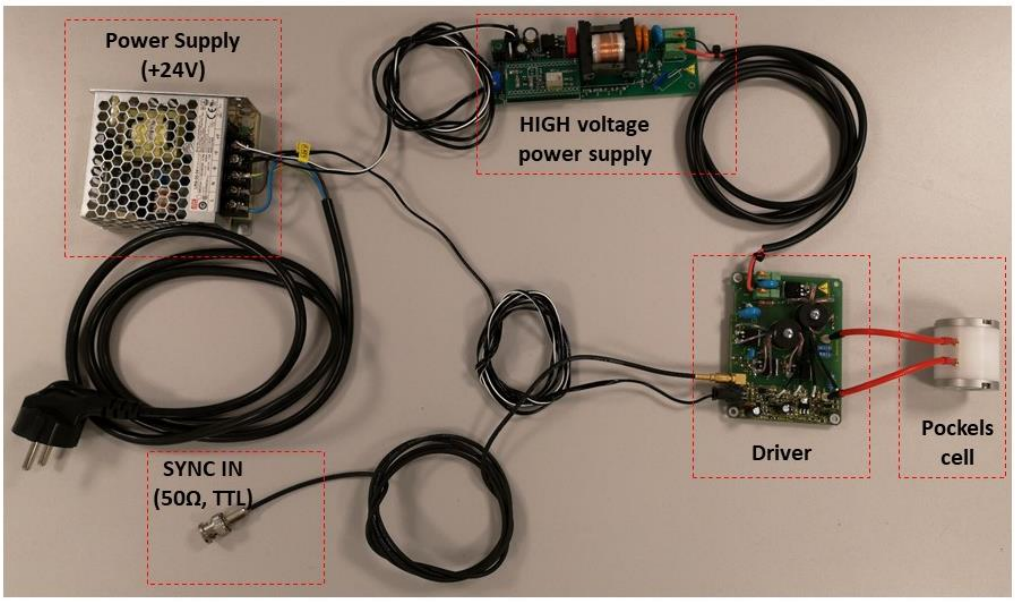


Figure 4. Connected components

Warning:
Do not start the device until all cables are connected.

Control signals without High Voltage active may damage the driver

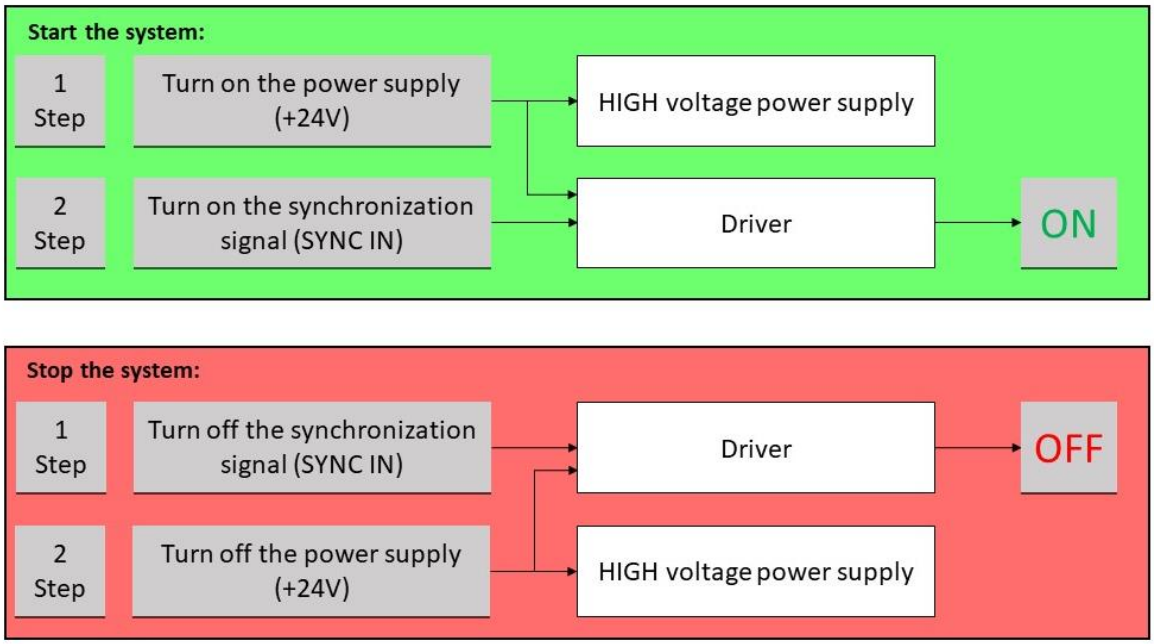


Figure 5. Steps to start and stop the system