



OEM DKDP Pockels Cell Kit for Q-switching

System wiring

QKD-01

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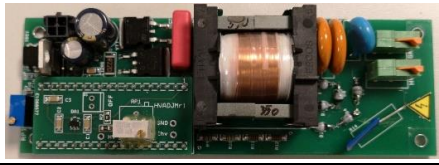





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Chapter 1 COMPONENTS OF THE SYSTEM

Table 1. Items included in OEM DKDP Pockels Cell Kit

<p>OEM high voltage (HV) driver</p> <p>Model: DQF-0.2-5D</p>	
<p>OEM high voltage (HV) power supply</p> <p>Model: PS-5-4.0</p>	
<p>Pockels cell</p> <p>Model: PC5S-1/1-1064</p>	
<p>[HV] cables</p> <p>OEM high voltage driver ↔ Pockels cell</p>	
<p>[HV] cables</p> <p>OEM high voltage driver ↔ (HV) power supply</p>	
<p>Synchronization cable</p> <p>OEM high voltage driver ↔ Signal generator</p>	
<p>2 pcs. of +24V cables</p> <p>1. Users +24V power supply ↔ (HV) power supply</p> <p>2. Users +24V power supply ↔ OEM high voltage driver</p>	
<p>USB flash drive</p> <p>Including manuals and technical descriptions</p>	

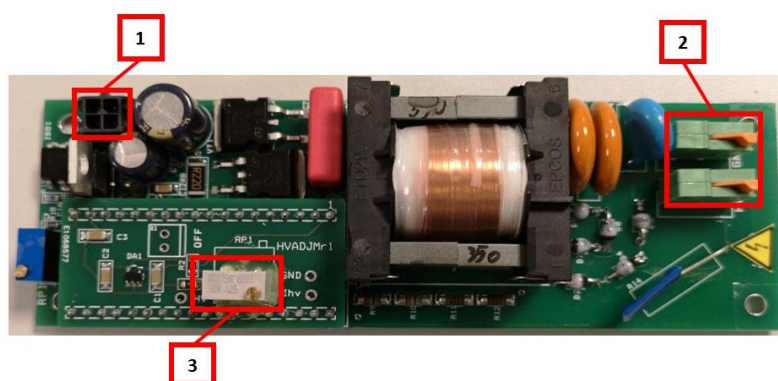


Figure 1. Top view of the (HV) power supply

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

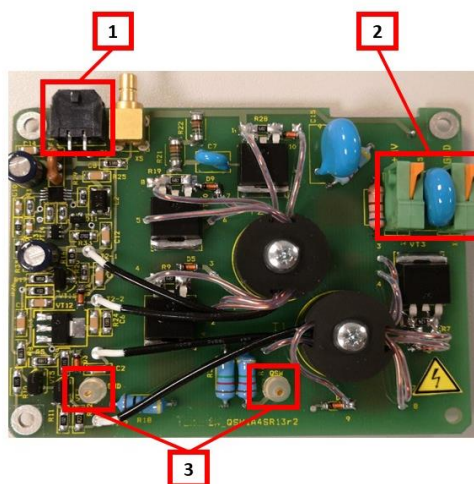


Figure 2. Top view of the (HV) driver

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)

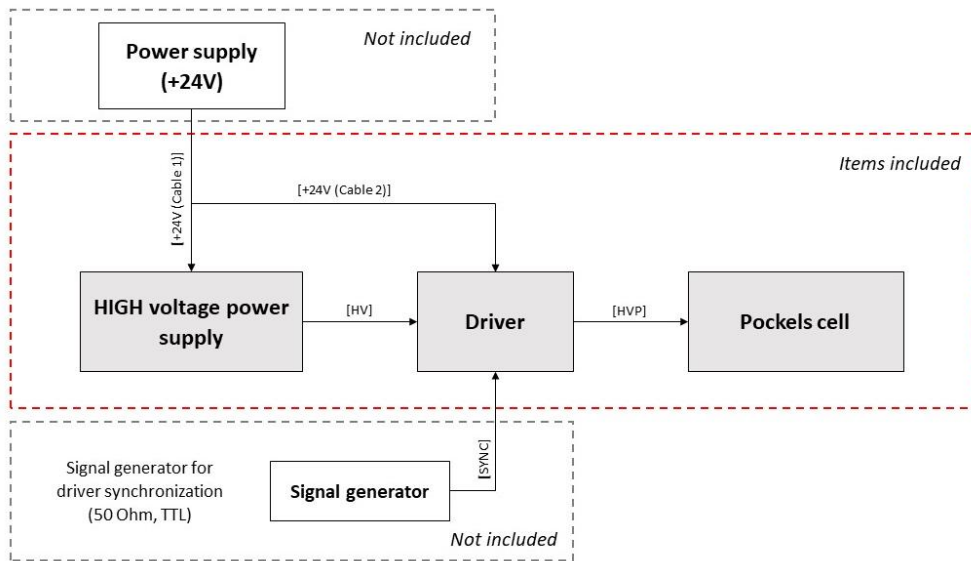


Figure 3. Structure diagram

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

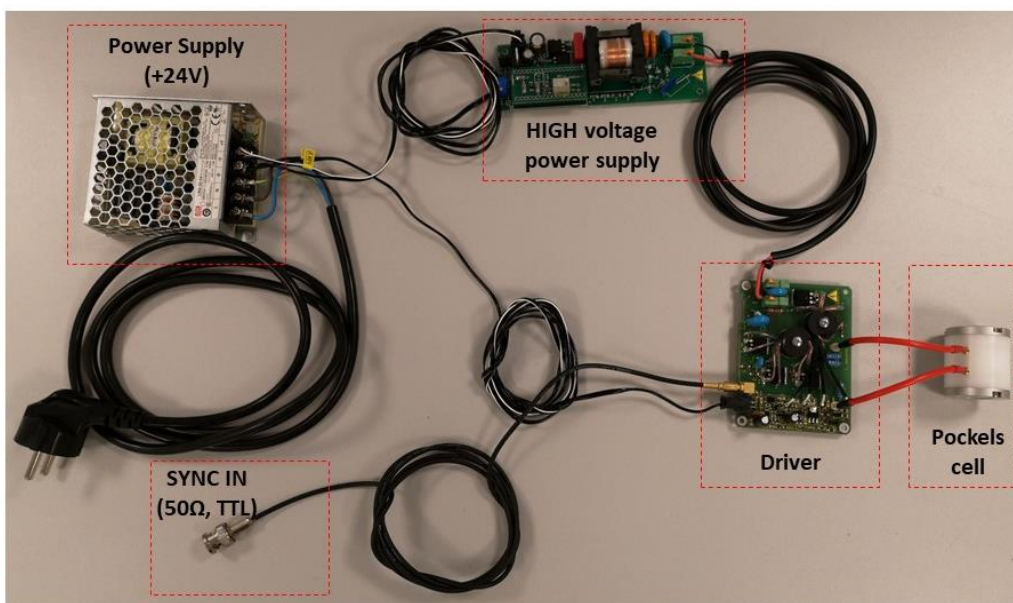


Figure 4. Connected components

Warning:

Do not start the device until all cables are connected.

Control signals without High Voltage active may damage the driver

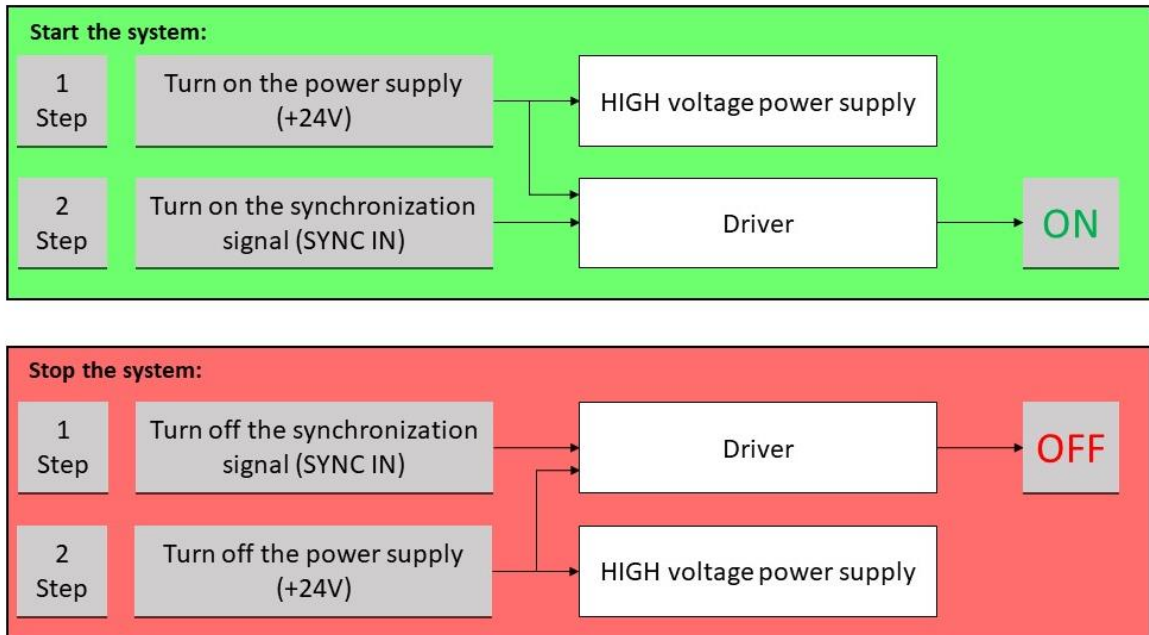


Figure 5. Steps to start and stop the system