EKSMA OPTICS

OEM BBO Pockels Cell Kit for Q-switching

System wiring

QKB-02

2020
Lithuania

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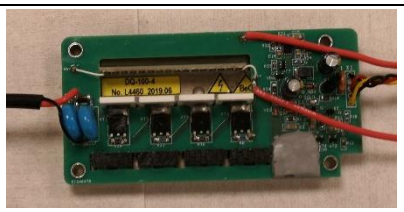
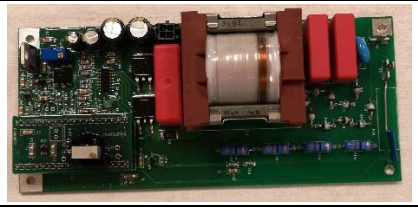
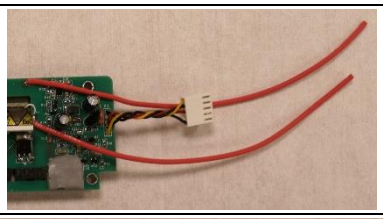
Table 1. Items included in OEM DKDP Pockels Cell Kit

OEM high voltage (HV) driver Model: DQ-100-4	
OEM high voltage (HV) power supply Model: PS-40-2.5	
Pockels cell Model: PCB4D-C-1064	
[HVP] cables (red, soldered to driver) OEM high voltage driver ↔ Pockels cell	
[HV] cables (soldered to driver) OEM high voltage driver ↔ (HV) power supply	
Synchronization signal cable & +24V cable OEM high voltage driver ↔ Signal generator OEM high voltage driver ↔ Users +24V power supply	
+24V cables Users +24V power supply ↔ (HV) power supply	
USB flash drive Including manuals and technical descriptions	
Mounting stage for Pockels cell Model: PM1	

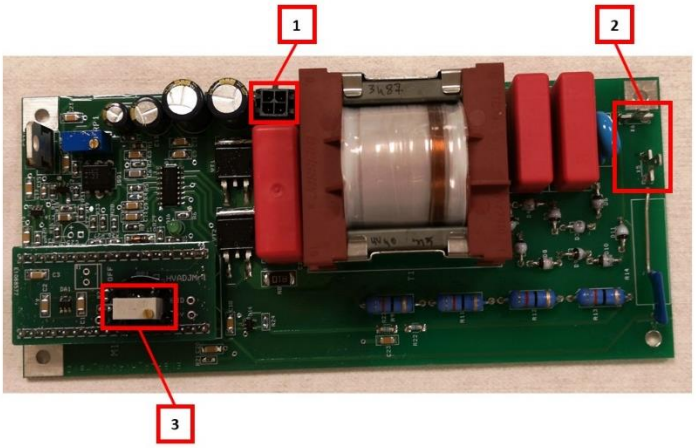


Figure 1. Top view of the (HV) power supply

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

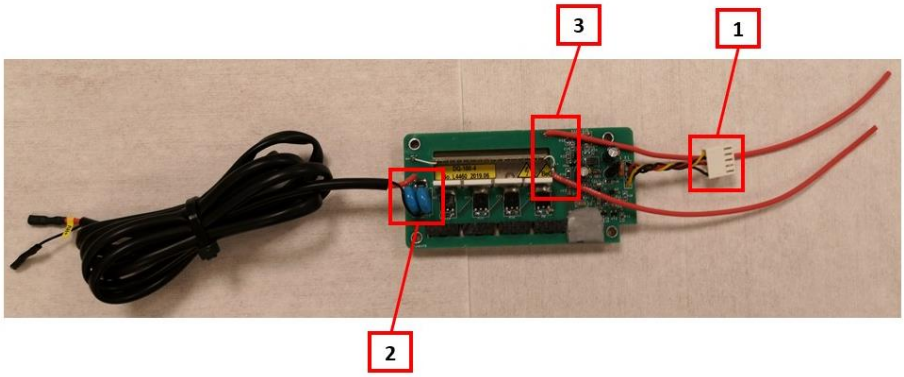


Figure 2. Top view of the (HV) driver

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

#	***Port***
1	Connector for +24V DC supply and synchronization signal cable
2	Contacts for HV pulse input
3	Output voltage to cell (<5 kV)

Chapter 3 STRUCTURE DIAGRAM

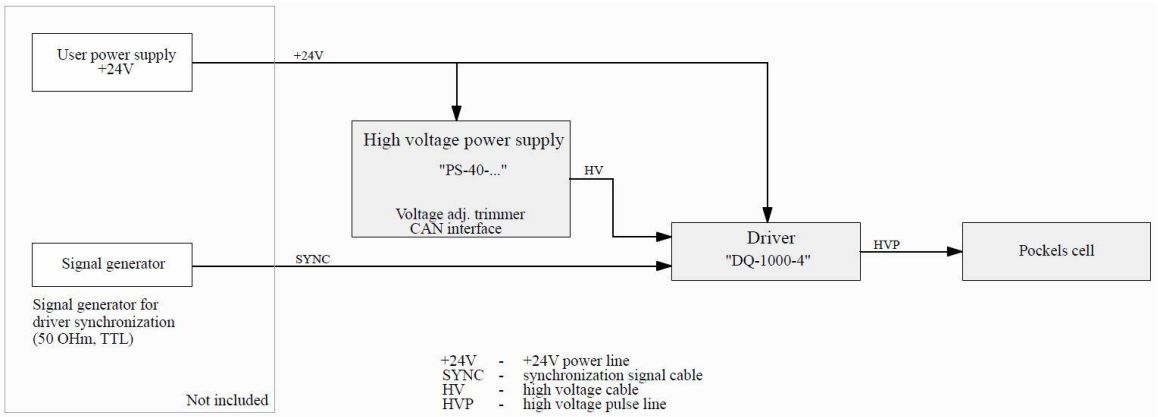


Figure 3. Structure diagram

Chapter 4 QUICK START & STOP GUIDE

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

Control signals without High Voltage active may damage the driver

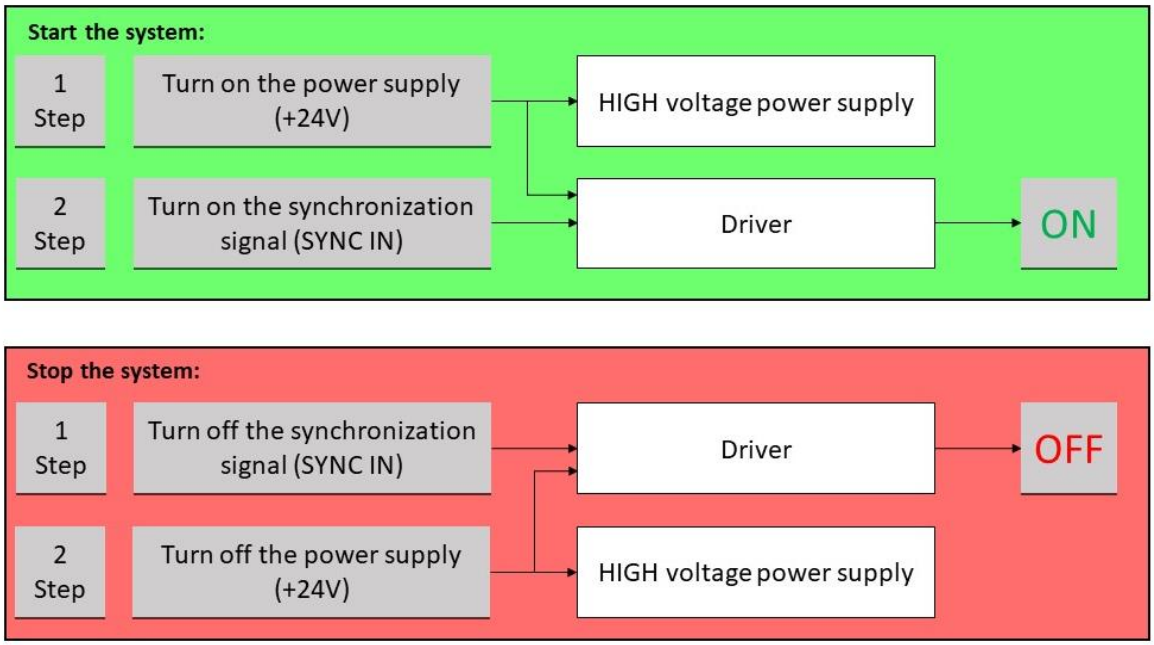


Figure 4. Steps to start and stop the system